Package ‘dataquieR’

September 22, 2026

Title Data Quality in Epidemiological Research

Version 2.8.15

Description Data quality assessments guided by a 'data quality framework introduced by Schmidt and colleagues, 2021' <doi:10.1186/s12874-021-01252-7> target the data quality dimensions integrity, completeness, consistency, and accuracy. The scope of applicable functions rests on the availability of extensive metadata which can be provided in spreadsheet tables. Either standardized (e.g. as 'html5' reports) or individually tailored reports can be generated. For an introduction into the specification of corresponding metadata, please refer to the 'package website' <https://dataquality.qihs.uni-greifswald.de/VIN_Annotation_of_Metadata.html>.

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URL https://dataquality.qihs.uni-greifswald.de/

BugReports https://gitlab.com/libreumg/dataquier/-/work_items

Depends R (>= 4.1.0)

Imports dplyr (>= 1.0.2), emmeans, ggplot2 (>= 3.5.0), lme4, lubridate, patchwork (>= 1.3.0), rlang, robustbase, utils, rio, readr, scales, withr, lifecycle, methods, mgcv, nnet, grid, grDevices, parallel, htmltools, hms

Suggests units, S7 (>= 0.2.1), cowplot, openxlsx2, jsonlite, cli, whoami, DT (>= 0.23), DT2, knitr, markdown, MASS, parallelly, rmarkdown, rstudioapi, testthat (>= 3.1.9), tibble, vdiffr, pkgload, Rdpack, callr, colorspace, plotly (>= 4.11.0), htmlwidgets, future, processx, R6, shiny, xml2, rvest, textutils, dbx, grImport2, rsvg, stringdist, rankICC, ordinal, storr, reticulate, stringi, lobstr, visNetwork, yaml12, jsonvalidate

VignetteBuilder knitr

Encoding UTF-8

KeepSource FALSE

ByteCompile no

Language en-US

Config/testthat/parallel true

Config/testthat/edition 3

Config/testthat/start-first dq_report_by_sm, dq_report2, dq_report_by_arguments, dq_report_by_pipesymbol_list, dq_report_by_s, dq_report_by_m, util_handle_complex_data_types, int_encoding_errors, plots, acc_loess, com_item_missingness, dq_report_by_na, dq_report_by_directories, util_generate_pages_from_report, con_limit_deviations, con_contradictions_redcap, com_segment_missingness, util_correct_variable_use

BuildManual TRUE

Config/roxygen2/version 8.1.0

NeedsCompilation no

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National Research Data Infrastructure for Personal Health Data: (NFDI 13/1) [fnd],
European Union's Horizon 2020 programme (euCanSHare, grant agreement No. 825903) [fnd],
German Federal Ministry of Education and Research (BMBF; NAKO Gesundheitsstudie, grants 01ER1301A and 01ER1801A) [fnd]

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Repository CRAN

Date/Publication 2026-09-22 20:10:16 UTC

Contents

acc_cat_distributions 10
acc_distributions 11
acc_distributions_ecdf 13
acc_distributions_loc 14
acc_distributions_only 16

acc_distributions_prop . . . 17
acc_end_digits . . . 19
acc_loess . . . 20
acc_mahalanobis . . . 23
acc_mahalanobis_ratio . . . 25
acc_margins . . . 26
acc_multivariate_outlier . . . 29
acc_repeated_measurements . . . 31
acc_robust_univariate_outlier . . . 33
acc_shape_or_scale . . . 35
acc_univariate_outlier . . . 37
acc_varcomp . . . 39
as.character.dataquieR_translated . . . 41
as.character.interval . . . 41
as.data.frame.dataquieR_resultset . . . 42
as.list.dataquieR_resultset . . . 42
as.list.dataquieR_resultset2 . . . 43
ASSOCIATION_DIRECTION . . . 43
ASSOCIATION_FORM . . . 44
ASSOCIATION_METRIC . . . 44
ASSOCIATION_RANGE . . . 45
CHECK_ID . . . 45
CHECK_LABEL . . . 46
check_table . . . 46
CODE_CLASSES . . . 47
CODE_LIST_TABLE . . . 47
CODE_ORDER . . . 47
COMPUTATION_RULE . . . 48
COMPUTED_VARIABLE_ROLES . . . 48
com_item_missingness . . . 49
com_qualified_item_missingness . . . 51
com_qualified_segment_missingness . . . 52
com_segment_missingness . . . 53
com_unit_missingness . . . 55
contradiction_functions_descriptions . . . 56
CONTRADICTION_TERM . . . 57
CONTRADICTION_TYPE . . . 57
con_attention_check_items . . . 58
con_contradictions . . . 59
con_contradictions_redcap . . . 61
con_inadmissible_categorical . . . 64
con_inadmissible_vocabulary . . . 65
con_limit_deviations . . . 67
con_schema_nonadherence . . . 69
con_ssi_range_check . . . 71
dataquieR.acc_loess.exclude_constant_subgroups . . . 72
dataquieR.acc_loess.mark_time_points . . . 73
dataquieR.acc_loess.min_bw . . . 74

dataquieR.acc_loess.min_obs_in_subgroup . . . 75
dataquieR.acc_loess.min_proportion . . . 76
dataquieR.acc_loess.plot_format . . . 77
dataquieR.acc_loess.plot_observations . . . 78
dataquieR.acc_margins_num . . . 78
dataquieR.acc_margins_sort . . . 79
dataquieR.acc_multivariate_outlier.scale . . . 80
dataquieR.acc_shape_or_scale_ci . . . 81
dataquieR.applicability_problem . . . 82
dataquieR.col_con_con_empirical . . . 82
dataquieR.col_con_con_logical . . . 83
dataquieR.CONDITIONS_LEVEL_TRHESHOLD . . . 84
dataquieR.CONDITIONS_WITH_STACKTRACE . . . 85
dataquieR.convert_to_list_for_lapply . . . 86
dataquieR.debug . . . 86
dataquieR.des_summary_hard_lim_remove . . . 87
dataquieR.dontwrapresults . . . 88
dataquieR.droplevels_ReportSummaryTable . . . 89
dataquieR.dt_adjust . . . 90
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE . . . 91
dataquieR.ERRORS_WITH_CALLER . . . 92
dataquieR.fix_column_type_on_read . . . 93
dataquieR.fix_var_name_prefixes_label . . . 94
dataquieR.flip_mode . . . 94
dataquieR.force_item_specific_missing_codes . . . 95
dataquieR.force_label_col . . . 96
dataquieR.force_rstudio_user_cluster . . . 97
dataquieR.GAM_for_LOESS . . . 98
dataquieR.grading_formats . . . 99
dataquieR.grading_rulesets . . . 100
dataquieR.guess_character . . . 100
dataquieR.guess_missing_codes . . . 101
dataquieR.html_table_backend . . . 102
dataquieR.ignore_empty_vars . . . 103
dataquieR.intrinsic_applicability_problem . . . 104
dataquieR.json.schema.strict.mode . . . 104
dataquieR.lang . . . 105
dataquieR.lazy_plots . . . 106
dataquieR.lazy_plots_cache . . . 107
dataquieR.lazy_plots_gg_compatibility . . . 108
dataquieR.locale . . . 109
dataquieR.MAHALANOBIS_THRESHOLD . . . 109
dataquieR.max_cat_resp_var_levels_in_plot . . . 110
dataquieR.max_group_var_levels_in_plot . . . 111
dataquieR.max_group_var_levels_with_violins . . . 112
dataquieR.MAX_LABEL_LEN . . . 113
dataquieR.MAX_LONG_LABEL_LEN . . . 114
dataquieR.MAX_VALUE_LABEL_LEN . . . 115

dataquieR.MESSAGES_WITH_CALLER . . . 116
dataquieR.min_group_var_levels . . . 116
dataquieR.min_obs_per_group_var_in_plot . . . 117
dataquieR.min_time_points_for_cat_resp_var . . . 118
dataquieR.MULTIVARIATE_OUTLIER_CHECK . . . 119
dataquieR.non_disclosure . . . 120
dataquieR.no_geom_count_in_bin . . . 121
dataquieR.no_overall_in_bin . . . 122
dataquieR.old_factor_handling . . . 123
dataquieR.old_type_adjust . . . 124
dataquieR.parallel.cpus . . . 124
dataquieR.parallel.load.balancing . . . 125
dataquieR.parallel.mode . . . 126
dataquieR.parallel.show.info . . . 127
dataquieR.precomputeStudyData . . . 128
dataquieR.print_block_load_factor . . . 129
dataquieR.progress_fkt_default . . . 130
dataquieR.progress_msg_fkt_default . . . 131
dataquieR.psychometric_cor_pairs . . . 132
dataquieR.resume_checkpoint . . . 133
dataquieR.resume_print . . . 134
dataquieR.scale_level_heuristics_control_binaryrecodelimit . . . 134
dataquieR.scale_level_heuristics_control_metriclevels . . . 135
dataquieR.study_data_cache_max . . . 136
dataquieR.study_data_cache_metrics . . . 137
dataquieR.study_data_cache_metrics_env . . . 138
dataquieR.study_data_cache_metrics_env_default . . . 139
dataquieR.study_data_cache_quick_fill . . . 140
dataquieR.study_data_colnames_case_sensitive . . . 141
dataquieR.testdebug . . . 141
dataquieR.traceback . . . 142
dataquieR.type_adjust_parallel . . . 143
dataquieR.VALUE_LABELS_htmlescaped . . . 144
dataquieR.WARNINGS_WITH_CALLER . . . 145
dataquieR_resultset . . . 146
dataquieR_resultset2-class . . . 147
dataquieR_resultset_verify . . . 147
DATA_PREPARATION . . . 148
DATA_TYPES . . . 148
DATA_TYPES_OF_R_TYPE . . . 149
des_scatterplot_matrix . . . 150
des_summary . . . 151
des_summary_categorical . . . 152
des_summary_continuous . . . 154
DF_CODE . . . 155
DF_ELEMENT_COUNT . . . 156
DF_ID_REF_TABLE . . . 156
DF_ID_VARS . . . 157

DF_NAME . . . 157
DF_RECORD_CHECK . . . 157
DF_RECORD_COUNT . . . 158
DF_UNIQUE_ID . . . 158
DF_UNIQUE_ROWS . . . 158
dim.dataquieR_resultset2 . . . 159
dimensions . . . 159
dimnames.dataquieR_resultset2 . . . 160
dims . . . 160
DISTRIBUTIONS . . . 161
dq_questionnaire . . . 161
dq_report . . . 164
dq_report2 . . . 164
dq_report_by . . . 169
dq_shiny_panel_html . . . 174
dq_shiny_panel_ui . . . 174
droplevels.ReportSummaryTable . . . 175
ggplotGrob.dq_lazy_ggplot . . . 176
grid.draw.util_pairs_ggplot_panels . . . 177
html_dependency_clipboard . . . 177
html_dependency_dataquieR . . . 178
html_dependency_jspdf . . . 178
html_dependency_tippy . . . 179
int_all_datastructure_dataframe . . . 179
int_all_datastructure_segment . . . 181
int_datatype_matrix . . . 182
int_duplicate_content . . . 184
int_duplicate_ids . . . 185
int_encoding_errors . . . 186
int_invalid_syntax . . . 187
int_part_vars_structure . . . 188
int_sts_element_dataframe . . . 189
int_sts_element_segment . . . 190
int_unexp_elements . . . 192
int_unexp_records_dataframe . . . 193
int_unexp_records_segment . . . 194
int_unexp_records_set . . . 195
IRV . . . 196
MAHALANOBIS_RATIO . . . 196
MAHALANOBIS_THRESHOLD . . . 197
MAXIMUM_LONG_STRING . . . 197
meta_data . . . 198
meta_data_computation . . . 198
meta_data_cross_item . . . 199
meta_data_dataframe . . . 199
meta_data_segment . . . 199
MISSING_CODE_RULES . . . 199
MISS_RESP . . . 200

MULTIVARIATE_OUTLIER_CHECK . . . 200
MULTIVARIATE_OUTLIER_CHECKTYPE . . . 201
names<-.dataquieR_translated . . . 202
nres . . . 202
numeric_with_unit-operators . . . 203
pipeline_recursive_result . . . 204
pipeline_vectorized . . . 204
plot.dataquieR_summary . . . 205
prep_acc_distributions_with_ecdf . . . 206
prep_add_cause_label_df . . . 207
prep_add_computed_variables . . . 208
prep_add_data_frames . . . 210
prep_add_missing_codes . . . 211
prep_add_to_meta . . . 212
prep_apply_coding . . . 213
prep_check_for_dataquieR_updates . . . 214
prep_check_meta_data_dataframe . . . 214
prep_check_meta_data_segment . . . 215
prep_check_meta_names . . . 216
prep_clean_labels . . . 218
prep_combine_report_summaries . . . 220
prep_compare_meta_with_study . . . 221
prep_create_meta . . . 222
prep_create_meta_data_file . . . 223
prep_create_storr_factory . . . 223
prep_datatype_from_data . . . 224
prep_deparse_assignments . . . 225
prep_deregister_progress_hook . . . 226
prep_dq_data_type_of . . . 226
prep_expand_codes . . . 227
prep_extract_cause_label_df . . . 228
prep_extract_classes_by_functions . . . 229
prep_extract_summary . . . 229
prep_extract_summary.dataquieR_result . . . 230
prep_extract_summary.dataquieR_resultset2 . . . 231
prep_fix_meta_id_dups . . . 231
prep_get_data_frame . . . 233
prep_get_labels . . . 234
prep_get_study_data_segment . . . 236
prep_get_user_name . . . 237
prep_guess_encoding . . . 237
prep_is_translated . . . 238
prep_link_escape . . . 238
prep_list_dataframes . . . 239
prep_list_voc . . . 239
prep_load_folder_with_metadata . . . 240
prep_load_report . . . 241
prep_load_report_from_backend . . . 242

prep_load_workbook_like_file . . . 243
prep_map_labels . . . 244
prep_merge_study_data . . . 245
prep_meta_data_v1_to_item_level_meta_data . . . 246
prep_min_obs_level . . . 247
prep_open_in_excel . . . 247
prep_pmap . . . 248
prep_prepare_dataframes . . . 249
prep_purge_data_frame_cache . . . 251
prep_realize_ggplot . . . 252
prep_register_progress_hook . . . 252
prep_remove_from_cache . . . 253
prep_render_pie_chart_from_summaryclasses_ggplot2 . . . 254
prep_render_pie_chart_from_summaryclasses_plotly . . . 255
prep_robust_guess_data_type . . . 255
prep_save_report . . . 256
prep_scalelevel_from_data_and_metadata . . . 257
prep_set_backend . . . 258
prep_study2meta . . . 258
prep_summary_to_classes . . . 259
prep_title_escape . . . 260
prep_undisclose . . . 260
prep_unsplit_val_tabs . . . 261
prep_valuelabels_from_data . . . 261
print.dataquieR_report_by . . . 262
print.dataquieR_result . . . 263
print.dataquieR_resultset . . . 263
print.dataquieR_resultset2 . . . 264
print.dataquieR_summary . . . 265
print.dataquieR_translated . . . 266
print.DataSlot . . . 267
print.FlaggedStudyData . . . 267
print.interval . . . 268
print.list . . . 268
print.master_result . . . 269
print.numeric_with_unit . . . 269
print.ReportSummaryTable . . . 270
print.Slot . . . 271
print.StudyDataSlot . . . 271
print.TableSlot . . . 272
print.util_pairs_ggplot_panels . . . 272
progress_init_fkt . . . 273
pro_applicability_matrix . . . 273
PSYCHOMETRIC_ANT . . . 275
PSYCHOMETRIC_SYN . . . 276
rbind.ReportSummaryTable . . . 276
RELCOMPL_SPEED . . . 277
REPEATED_MEASURES_METRIC . . . 277

REPEATED_MEASURES_METRIC_SETTING . . . 278
REPEATED_MEASURES_REFERENCE . . . 278
resnames . . . 279
resnames.dataquieR_resultset2 . . . 279
RESPT_PER_ITEM . . . 280
SCALE_ACRONYM . . . 280
SCALE_LEVELS . . . 281
SCALE_NAME . . . 281
SEGMENT_ID_REF_TABLE . . . 282
SEGMENT_ID_TABLE . . . 282
SEGMENT_ID_VARS . . . 283
SEGMENT_MISS . . . 283
SEGMENT_PART_VARS . . . 283
SEGMENT_RECORD_CHECK . . . 284
SEGMENT_RECORD_COUNT . . . 284
SEGMENT_UNIQUE_ID . . . 284
SEGMENT_UNIQUE_ROWS . . . 285
SPLIT_CHAR . . . 285
study_data . . . 285
summary.dataquieR_resultset . . . 286
summary.dataquieR_resultset2 . . . 286
SUM_ATTENTION_CHECK_ITEMS . . . 287
TOTRESPT . . . 288
to_basic.GeomPointrangeRobust . . . 288
UNITS . . . 289
UNIT_IS_COUNT . . . 289
UNIT_PREFIXES . . . 289
UNIT_PREFIX_FACTORS . . . 290
UNIT_SOURCES . . . 290
value/missing-lists . . . 290
VARATT_REQUIRE_LEVELS . . . 291
VARIABLE_LIST . . . 292
VARIABLE_LIST_ORDER . . . 292
VARIABLE_ROLES . . . 293
WELL_KNOWN_META_VARIABLE_NAMES . . . 293
[.dataquieR_resultset2 . . . 296
[<-.dataquieR_resultset2 . . . 296
[[.dataquieR_resultset2 . . . 297
[[<-.dataquieR_resultset2 . . . 297
$.dataquieR_resultset2 . . . 298
$<-.dataquieR_resultset2 . . . 298

Index **300**

acc_cat_distributions *Plots and checks for distributions for categorical variables*

Description

This function creates distribution plots for categorical variables.

Descriptor

Usage

```
acc_cat_distributions(
  resp_vars = NULL,
  group_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  n_cat_max = getOption("dataquieR.max_cat_resp_var_levels_in_plot",
    dataquieR.max_cat_resp_var_levels_in_plot_default),
  n_group_max = getOption("dataquieR.max_group_var_levels_in_plot",
    dataquieR.max_group_var_levels_in_plot_default),
  n_data_min = getOption("dataquieR.min_time_points_for_cat_resp_var",
    dataquieR.min_time_points_for_cat_resp_var_default)
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
group_vars	variable list the names of the grouping variables
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
n_cat_max	maximum number of categories to be displayed individually for the categorical variable (resp_vars)
n_group_max	maximum number of categories to be displayed individually for the grouping variable (group_vars, devices / examiners)
n_data_min	minimum number of data points to create a time course plot for an individual category of the resp_vars variable

Details

If `resp_vars` is missing or empty, all variables defined as nominal or ordinal in the metadata are selected. `resp_vars` must then identify one nominal or ordinal measurement variable with at least two distinct non-missing values.

`group_vars` is optional. If supplied, it must identify one nominal or ordinal grouping variable that is not a float variable and has at least two distinct non-missing values.

Value

A list with:

- `SummaryPlot`: ggplot2::ggplot for the response variable in `resp_vars`.

See Also

Online Documentation

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acc_distributions *Plots and checks for distributions*

Description

Data quality indicator checks "Unexpected location" and "Unexpected proportion" with histograms.

Indicator

Usage

```
acc_distributions(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  check_param = c("any", "location", "proportion"),
  plot_ranges = TRUE,
  flip_mode = "noflip",
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data

check_param	enum any | location | proportion. Which type of check should be conducted (if possible): a check on the location of the mean or median value of the study data, a check on proportions of categories, or either of them if the necessary metadata is available.
plot_ranges	logical Should the plot show ranges and results from the data quality checks? (default: TRUE)
flip_mode	enum default | flip | noflip | auto. Should the plot be in default orientation, flipped, not flipped or auto-flipped. Not all options are always supported. In general, this con be controlled by setting the `roptions(dataquieR.flip_mode = ...)`. If called from `dq_report`, you can also pass `flip_mode` to all function calls or set them specifically using `specific_args`.
meta_data	data.frame old name for `item_level`
meta_data_v2	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Value

A list with:

- `SummaryTable`: data.frame containing data quality checks for "Unexpected location" (`FLG_acc_ud_loc`) and "Unexpected proportion" (`FLG_acc_ud_prop`) for each response variable in `resp_vars`.
- `SummaryData`: a data.frame containing data quality checks for "Unexpected location" and / or "Unexpected proportion" for a report
- `SummaryPlotList`: list of ggplot2::ggplots for each response variable in `resp_vars`.

Algorithm of this implementation:

- If no response variable is defined, select all variables of type float or integer in the study data.
- Selected response variables may include multiple variables, but each variable must have a defined scale level, at least two distinct non-missing values, and must not contain only missing values.
- Remove missing codes from the study data (if defined in the metadata).
- Remove measurements deviating from (hard) limits defined in the metadata (if defined).
- Exclude variables containing only `NA` or only one unique value (excluding `NA`s).
- Perform check for "Unexpected location" if defined in the metadata (needs a LOCATION_METRIC (mean or median) and LOCATION_RANGE (range of expected values for the mean and median, respectively)).
- Perform check for "Unexpected proportion" if defined in the metadata (needs PROPORTION_RANGE (range of expected values for the proportions of the categories)).
- Plot histogram(s).

See Also

Online Documentation

acc_distributions_ecdf

ECDF plots for distribution checks

Description

Data quality indicator checks "Unexpected location" and "Unexpected proportion" if a grouping variable is included: Plots of empirical cumulative distributions for the subgroups.

Descriptor

Usage

```
acc_distributions_ecdf(
  resp_vars = NULL,
  group_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  n_group_max = getOption("dataquieR.max_group_var_levels_in_plot",
    dataquieR.max_group_var_levels_in_plot_default),
  n_obs_per_group_min = getOption("dataquieR.min_obs_per_group_var_in_plot",
    dataquieR.min_obs_per_group_var_in_plot_default)
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
group_vars	variable list the names of the grouping variables
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
n_group_max	maximum number of categories to be displayed individually for the grouping variable (group_vars, devices / examiners)
n_obs_per_group_min	minimum number of data points per group to create a graph for an individual category of the group_vars variable

Details

If `resp_vars` is missing or empty, all interval or ratio scaled variables are selected. Selected response variables may include multiple variables, but each selected variable must be interval or ratio scaled, must have at least ten distinct non-missing values, and must not contain only missing values.

`group_vars` must identify one nominal or ordinal grouping variable that is not a float variable and has at least two distinct non-missing values.

Value

A list with:

- `SummaryPlotList`: list of ggplot2::ggplots for each response variable in `resp_vars`.

See Also

Online Documentation

`acc_distributions_loc` *Plots and checks for distributions – Location*

Description

Data quality indicator checks "Unexpected location" and "Unexpected proportion" with histograms.

Indicator

Usage

```
acc_distributions_loc(
  resp_vars = NULL,
  study_data,
  label_col = VAR_NAMES,
  item_level = "item_level",
  check_param = "location",
  plot_ranges = TRUE,
  flip_mode = "noflip",
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data

check_param	enum any | location | proportion. Which type of check should be conducted (if possible): a check on the location of the mean or median value of the study data, a check on proportions of categories, or either of them if the necessary metadata is available.
plot_ranges	logical Should the plot show ranges and results from the data quality checks? (default: TRUE)
flip_mode	enum default | flip | noflip | auto. Should the plot be in default orientation, flipped, not flipped or auto-flipped. Not all options are always supported. In general, this con be controlled by setting the `roptions(dataquieR.flip_mode = ...)`. If called from `dq_report`, you can also pass `flip_mode` to all function calls or set them specifically using `specific_args`.
meta_data	data.frame old name for `item_level`
meta_data_v2	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Value

A list with:

- `SummaryTable`: data.frame containing data quality checks for "Unexpected location" (`FLG_acc_ud_loc`) and "Unexpected proportion" (`FLG_acc_ud_prop`) for each response variable in `resp_vars`.
- `SummaryData`: a data.frame containing data quality checks for "Unexpected location" and / or "Unexpected proportion" for a report
- `SummaryPlotList`: list of ggplot2::ggplots for each response variable in `resp_vars`.

Algorithm of this implementation:

- If no response variable is defined, select all variables of type float or integer in the study data.
- Selected response variables may include multiple variables, but each variable must have a defined scale level, at least two distinct non-missing values, and must not contain only missing values.
- Remove missing codes from the study data (if defined in the metadata).
- Remove measurements deviating from (hard) limits defined in the metadata (if defined).
- Exclude variables containing only `NA` or only one unique value (excluding `NA`s).
- Perform check for "Unexpected location" if defined in the metadata (needs a LOCATION_METRIC (mean or median) and LOCATION_RANGE (range of expected values for the mean and median, respectively)).
- Perform check for "Unexpected proportion" if defined in the metadata (needs PROPORTION_RANGE (range of expected values for the proportions of the categories)).
- Plot histogram(s).

See Also

- acc_distributions
- Online Documentation

acc_distributions_only

Plots and checks for distributions – only

Description

Descriptor

Usage

```
acc_distributions_only(
  resp_vars = NULL,
  study_data,
  label_col = VAR_NAMES,
  item_level = "item_level",
  flip_mode = "noflip",
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
flip_mode	enum default | flip | noflip | auto. Should the plot be in default orientation, flipped, not flipped or auto-flipped. Not all options are always supported. In general, this con be controlled by setting the `roptions(dataquieR.flip_mode = ...)`. If called from `dq_report`, you can also pass `flip_mode` to all function calls or set them specifically using `specific_args`.
meta_data	data.frame old name for `item_level`
meta_data_v2	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Value

A list with:

- `SummaryTable`: data.frame containing data quality checks for "Unexpected location" (`FLG_acc_ud_loc`) and "Unexpected proportion" (`FLG_acc_ud_prop`) for each response variable in `resp_vars`.
- `SummaryData`: a data.frame containing data quality checks for "Unexpected location" and / or "Unexpected proportion" for a report
- `SummaryPlotList`: list of ggplot2::ggplots for each response variable in `resp_vars`.

Algorithm of this implementation:

- If no response variable is defined, select all variables of type float or integer in the study data.
- Selected response variables may include multiple variables, but each variable must have a defined scale level, at least two distinct non-missing values, and must not contain only missing values.
- Remove missing codes from the study data (if defined in the metadata).
- Remove measurements deviating from (hard) limits defined in the metadata (if defined).
- Exclude variables containing only NA or only one unique value (excluding NAs).
- Perform check for "Unexpected location" if defined in the metadata (needs a LOCATION_METRIC (mean or median) and LOCATION_RANGE (range of expected values for the mean and median, respectively)).
- Perform check for "Unexpected proportion" if defined in the metadata (needs PROPORTION_RANGE (range of expected values for the proportions of the categories)).
- Plot histogram(s).

See Also

- acc_distributions
- Online Documentation

---

acc_distributions_prop

Plots and checks for distributions – Proportion

Description

Data quality indicator checks "Unexpected location" and "Unexpected proportion" with histograms.

Indicator

Usage

```
acc_distributions_prop(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  check_param = "proportion",
  plot_ranges = TRUE,
  flip_mode = "noflip",
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
check_param	enum any | location | proportion. Which type of check should be conducted (if possible): a check on the location of the mean or median value of the study data, a check on proportions of categories, or either of them if the necessary metadata is available.
plot_ranges	logical Should the plot show ranges and results from the data quality checks? (default: TRUE)
flip_mode	enum default | flip | noflip | auto. Should the plot be in default orientation, flipped, not flipped or auto-flipped. Not all options are always supported. In general, this con be controlled by setting the `roptions(dataquieR.flip_mode = ...)`. If called from `dq_report`, you can also pass `flip_mode` to all function calls or set them specifically using `specific_args`.
meta_data	data.frame old name for `item_level`
meta_data_v2	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Value

A list with:

- `SummaryTable`: data.frame containing data quality checks for "Unexpected location" (`FLG_acc_ud_loc`) and "Unexpected proportion" (`FLG_acc_ud_prop`) for each response variable in `resp_vars`.
- `SummaryData`: a data.frame containing data quality checks for "Unexpected location" and / or "Unexpected proportion" for a report
- `SummaryPlotList`: list of ggplot2::ggplots for each response variable in `resp_vars`.

Algorithm of this implementation:

- If no response variable is defined, select all variables of type float or integer in the study data.
- Selected response variables may include multiple variables, but each variable must have a defined scale level, at least two distinct non-missing values, and must not contain only missing values.
- Remove missing codes from the study data (if defined in the metadata).
- Remove measurements deviating from (hard) limits defined in the metadata (if defined).
- Exclude variables containing only `NA` or only one unique value (excluding `NA`s).
- Perform check for "Unexpected location" if defined in the metadata (needs a LOCATION_METRIC (mean or median) and LOCATION_RANGE (range of expected values for the mean and median, respectively)).

- Perform check for "Unexpected proportion" if defined in the metadata (needs PROPORTION_RANGE (range of expected values for the proportions of the categories)).
- Plot histogram(s).

See Also

- acc_distributions
- Online Documentation

`acc_end_digits` *Extension of acc_shape_or_scale to examine uniform distributions of end digits*

Description

This implementation contrasts the empirical distribution of a measurement variables against assumed distributions. The approach is adapted from the idea of rootograms (Tukey (1977)) which is also applicable for count data (Kleiber and Zeileis (2016)).

Indicator

Usage

```
acc_end_digits(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Value

a list with:

- `SummaryTable`: data.frame with the columns `Variables` and `FLG_acc_ud_shape`
- `SummaryPlot`: ggplot2 distribution plot comparing expected with observed distribution

ALGORITHM OF THIS IMPLEMENTATION:

- `resp_vars` identifies one interval or ratio scaled measurement variable of type float or integer.
- Missing codes are removed from resp_vars (if defined in the metadata)
- The user must specify the column of the metadata containing probability distribution (currently only: normal, uniform, gamma)
- Parameters of each distribution can be estimated from the data or are specified by the user
- A histogram-like plot contrasts the empirical vs. the technical distribution

See Also

Online Documentation

---

acc_loess — *Smoothes and plots adjusted longitudinal measurements and longitudinal trends from logistic regression models*

Description

The following R implementation executes calculations for quality indicator "Unexpected location" (see here. Local regression (LOESS) is a versatile statistical method to explore an averaged course of time series measurements (Cleveland, Devlin, and Grosse 1988). In context of epidemiological data, repeated measurements using the same measurement device or by the same examiner can be considered a time series. LOESS allows to explore changes in these measurements over time.

Descriptor

Usage

```
acc_loess(
  resp_vars,
  group_vars = NULL,
  time_vars,
  co_vars = NULL,
  study_data,
  label_col = VAR_NAMES,
  item_level = "item_level",
  min_obs_in_subgroup = getOption("dataquieR.acc_loess.min_obs_in_subgroup",
    dataquieR.acc_loess.min_obs_in_subgroup_default),
  resolution = 80,
```

```
  comparison_lines = list(type = c("mean/sd", "quartiles"), color = "grey30", linetype =
    2, sd_factor = 0.5),
  mark_time_points = getOption("dataquieR.acc_loess.mark_time_points",
    dataquieR.acc_loess.mark_time_points_default),
  plot_observations = getOption("dataquieR.acc_loess.plot_observations",
    dataquieR.acc_loess.plot_observations_default),
  plot_format = getOption("dataquieR.acc_loess.plot_format",
    dataquieR.acc_loess.plot_format_default),
  meta_data = item_level,
  meta_data_v2,
  n_group_max = getOption("dataquieR.max_group_var_levels_in_plot",
    dataquieR.max_group_var_levels_in_plot_default),
  enable_GAM = getOption("dataquieR.GAM_for_LOESS", dataquieR.GAM_for_LOESS_default),
  exclude_constant_subgroups =
    getOption("dataquieR.acc_loess.exclude_constant_subgroups",
    dataquieR.acc_loess.exclude_constant_subgroups_default),
  min_bandwidth = getOption("dataquieR.acc_loess.min_bw",
    dataquieR.acc_loess.min_bw_default),
  min_proportion = getOption("dataquieR.acc_loess.min_proportion",
    dataquieR.acc_loess.min_proportion_default)
)
```

Arguments

`resp_vars` variable the names of the measurement variables, if missing or `NULL`, all variables will be checked

`group_vars` variable list the names of the grouping variables

`time_vars` variable the name of the variable giving the time of measurement

`co_vars` variable list the names of covariables for adjustment

`study_data` data.frame the data frame that contains the measurements

`label_col` variable attribute the name of the column in the metadata with labels of variables

`item_level` data.frame the data frame that contains metadata attributes of study data

`min_obs_in_subgroup` integer (optional argument) If `group_vars` is specified, this argument can be used to specify the minimum number of observations required for each of the subgroups. Subgroups with fewer observations are excluded. The default number is `30`.

`resolution` numeric the maximum number of time points used for plotting the trend lines

`comparison_lines` list type and style of lines with which trend lines are to be compared. Can be mean +/- 0.5 standard deviation (the factor can be specified differently in `sd_factor`) or quartiles (Q1, Q2, and Q3). Arguments `color` and `linetype` are passed to `ggplot2::geom_line()`.

`mark_time_points` logical mark time points with observations (caution, there may be many marks)

plot_observations
: logical show observations as scatter plot in the background. If there are co_vars specified, the values of the observations in the plot will also be adjusted for the specified covariables.

plot_format
: enum AUTO | COMBINED | FACETS | BOTH. Return the plot as one combined plot for all groups or as facet plots (one figure per group). BOTH will return both variants, AUTO will decide based on the number of observers.

meta_data
: data.frame old name for item_level

meta_data_v2
: character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

n_group_max
: integer maximum number of categories to be displayed individually for the grouping variable (group_vars, devices / examiners)

enable_GAM
: logical Can LOESS computations be replaced by general additive models to reduce memory consumption for large datasets?

exclude_constant_subgroups
: logical Should subgroups with constant values be excluded?

min_bandwidth
: numeric lower limit for the LOESS bandwidth, should be greater than 0 and less than or equal to 1. In general, increasing the bandwidth leads to a smoother trend line.

min_proportion
: numeric lower limit for the proportion of the smaller group (cases or controls) for creating a LOESS figure, should be greater than 0 and less than 0.4.

Details

If mark_time_points or plot_observations is selected, but would result in plotting more than 400 points, only a sample of the data will be displayed.

Limitations

The application of LOESS requires model fitting, i.e. the smoothness of a model is subject to a smoothing parameter (span). Particularly in the presence of interval-based missing data, high variability of measurements combined with a low number of observations in one level of the group_vars may distort the fit. Since our approach handles data without knowledge of such underlying characteristics, finding the best fit is complicated if computational costs should be minimal. The default of LOESS in R uses a span of 0.75, which provides in most cases reasonable fits. The function acc_loess adapts the span for each level of the group_vars (with at least as many observations as specified in min_obs_in_subgroup and with at least three time points) based on the respective number of observations. LOESS consumes a lot of memory for larger datasets. That is why acc_loess switches to a generalized additive model with integrated smoothness estimation (gam by mgcv) if there are 1000 observations or more for at least one level of the group_vars (similar to geom_smooth from ggplot2).

Value

a list with:

- SummaryPlotList: list with two plots if plot_format = "BOTH", otherwise one of the two figures described below:

- `Loess_fits_facets`: The plot contains LOESS-smoothed curves for each level of the `group_vars` in a separate panel. Added trend lines represent mean and standard deviation or quartiles (specified in `comparison_lines`) for moving windows over the whole data.
- `Loess_fits_combined`: This plot combines all curves into one panel. Given a low number of levels in the `group_vars`, this plot eases comparisons. However, if the number increases this plot may be too crowded and unclear.

See Also

Online Documentation

`acc_mahalanobis` *Calculate and plot* `Mahalanobis` *distances*

Description

A standard tool to calculate `Mahalanobis` distance. In this approach the squared `Mahalanobis` distance is calculated for ordinal variables (treated as continuous) to identify inattentive responses. It calculates the distance for each observational unit from the sample mean. The greater the distance, the atypical the responses.

Indicator

Usage

```
acc_mahalanobis(
  variable_group = NULL,
  study_data,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_cross_item = "cross-item_level",
  label_col = VAR_NAMES,
  meta_data_v2,
  cross_item_level,
  `cross-item_level`,
  mahalanobis_threshold =
    suppressWarnings(as.numeric(getOption("dataquieR.MAHALANOBIS_THRESHOLD",
    dataquieR.MAHALANOBIS_THRESHOLD_default)))
)
```

Arguments

`variable_group`	variable list the names of the variables used to calculate the `Mahalanobis` distance
`study_data`	data.frame the data frame that contains the measurements
`item_level`	data.frame the data frame that contains metadata attributes of study data
`meta_data`	data.frame old name for `item_level`

`meta_data_cross_item`
: data.frame – optional: Cross-item level metadata

`label_col`
: variable attribute the name of the column in the metadata with labels of variables

`meta_data_v2`
: character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`cross_item_level`
: data.frame alias for `meta_data_cross_item`

`‘cross-item_level‘`
: data.frame alias for `meta_data_cross_item`

`mahalanobis_threshold`
: numeric the confidence level to use to define `outliers`, if not stated it is by default 0.975.

Value

a list with:

- `SummaryTable`: data.frame underlying the plot
- `SummaryData`: data.frame underlying the plot with speaking column labels
- `SummaryPlot`: ggplot2::ggplot2 Q-Q plot of squared `Mahalanobis` distances vs. a theoretical chi-squared distribution showing `outliers`.
- `FlaggedStudyData`: data.frame contains the original data frame of the variables used to calculate the squared `Mahalanobis` distances with the additional column, containing the squared `Mahalanobis` distance, and a column called `MD_outliers`, that contains 1 if the observational unit is considered a multivariate `outlier`.

ALGORITHM OF THIS IMPLEMENTATION:

- Implementation is restricted to variables of type integer
- Remove missing codes from the study data (if defined in the metadata)
- The covariance matrix is estimated for all variables from `variable_group`
- The `Mahalanobis` distance of each observation is calculated $MD_i^2 = (x_i - \mu)^T \Sigma^{-1} (x_i - \mu)$
- The default to consider a value an `outlier` is to use the 0.975 quantile of a theoretical chi-square distribution with degrees of freedom equals to the number of variables used to calculate the `Mahalanobis` distance (`Mayrhofer and Filzmoser`, 2023)

See Also

Online Documentation

`acc_mahalanobis_ratio` *Internal function only existing for technical reasons, planned to be removed in future releases*

Description

Please use instead the function `acc_mahalanobis()`

Indicator

Usage

```
acc_mahalanobis_ratio(
  resp_vars = NULL,
  study_data,
  label_col = VAR_NAMES,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  meta_data_cross_item = "cross-item_level",
  cross_item_level,
  `cross-item_level`
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`meta_data_cross_item`	data.frame – optional: Cross-item level metadata
`cross_item_level`	data.frame alias for `meta_data_cross_item`
`‘cross-item_level‘`	data.frame alias for `meta_data_cross_item`

Details

[Experimental]

Value

a list with:

- `SummaryData`: data.frame underlying the plot with user friendly caption
- `SummaryTable`: data.frame underlying the plot
- `SummaryPlot`: ggplot2::ggplot2 Q-Q plot of squared `Mahalanobis` distances vs. a theoretical chi-squared distribution showing `outliers`.
- `FlaggedStudyData` data.frame contains the original data frame of the variables used to calculate the squared `Mahalanobis` distances with an additional column indicating if for a group of variables if the observational unit is a multivariate `outlier`.

ALGORITHM OF THIS IMPLEMENTATION:

- Implementation is restricted to variables of type integer
- Remove missing codes from the study data (if defined in the metadata)
- The covariance matrix is estimated for all variables of `resp_vars`
- The `Mahalanobis` distance of each observation is calculated $MD_i^2 = (x_i - \mu)^T \Sigma^{-1} (x_i - \mu)$
- The default to consider a value an `outlier` is to use the 0.975 quantile of a theoretical chi-square distribution with degrees of freedom equals to the number of variables used to calculate the `Mahalanobis` distance (`Mayrhofer and Filzmoser`, 2023)

`resp_vars` must name the computed `Mahalanobis` distance ratio variable.

See Also

Online Documentation

---

acc_margins *Estimate marginal means, see emmeans::emmeans*

Description

This function examines the impact of so-called process variables on a measurement variable. This implementation combines a descriptive and a model-based approach. Process variables that can be considered in this implementation must be categorical. It is currently not possible to consider more than one process variable within one function call. The measurement variable can be adjusted for (multiple) covariables, such as age or sex, for example.

Marginal means rests on model-based results, i.e. a significantly different marginal mean depends on sample size. Particularly in large studies, small and irrelevant differences may become significant. The contrary holds if sample size is low.

Indicator

Usage

```
acc_margins(
  resp_vars = NULL,
  group_vars = NULL,
  co_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  threshold_type = "empirical",
  threshold_value,
  min_obs_in_subgroup = 5,
  min_obs_in_cat = 5,
  dichotomize_categorical_resp = TRUE,
  cut_off_linear_model_for_ord = 10,
  meta_data = item_level,
  meta_data_v2,
  sort_group_var_levels = getOption("dataquieR.acc_margins_sort",
    dataquieR.acc_margins_sort_default),
  include_numbers_in_figures = getOption("dataquieR.acc_margins_num",
    dataquieR.acc_margins_num_default),
  n_violin_max = getOption("dataquieR.max_group_var_levels_with_violins",
    dataquieR.max_group_var_levels_with_violins_default),
  no_overall_in_bin = getOption("dataquieR.no_overall_in_bin",
    dataquieR.no_overall_in_bin_default),
  no_geom_count_in_bin = getOption("dataquieR.no_geom_count_in_bin",
    dataquieR.no_geom_count_in_bin_default)
)
```

Arguments

`resp_vars` variable the names of the measurement variables, if missing or `NULL`, all variables will be checked

`group_vars` variable list the names of the grouping variables

`co_vars` variable list the names of covariables for adjustment

`study_data` data.frame the data frame that contains the measurements

`label_col` variable attribute the name of the column in the metadata with labels of variables

`item_level` data.frame the data frame that contains metadata attributes of study data

`threshold_type` enum empirical | user | none. In case `empirical` is chosen, a multiplier of the scale measure is used. In case of `user`, a value of the mean or probability (binary data) has to be defined see `Implementation and use of thresholds` in the online documentation). In case of `none`, no thresholds are displayed and no flagging of unusual group levels is applied.

`threshold_value` numeric a multiplier or absolute value (see `Implementation and use of thresholds` in the online documentation).

min_obs_in_subgroup
: integer from=0. This optional argument specifies the minimum number of observations that is required to include a subgroup (level) of the group_var in the analysis. Subgroups with less observations are excluded.

min_obs_in_cat
: integer This optional argument specifies the minimum number of observations that is required to include a category (level) of the outcome (resp_vars) in the analysis. Categories with less observations are combined into one group. If the collapsed category contains less observations than required, it will be excluded from the analysis.

dichotomize_categorical_resp
: logical Should nominal response variables always be transformed to binary variables?

cut_off_linear_model_for_ord
: integer from=0. This optional argument specifies the minimum number of observations for individual levels of an ordinal outcome (resp_var) that is required to run a linear model instead of an ordered regression (i.e., a cut-off value above which linear models are considered a good approximation). The argument can be set to NULL if ordered regression models are preferred for ordinal data in any case.

meta_data
: data.frame old name for item_level

meta_data_v2
: character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

sort_group_var_levels
: logical Should the levels of the grouping variable be sorted descending by the number of observations? Note that ordinal grouping variables will not be reordered.

include_numbers_in_figures
: logical Should the figure report the number of observations for each level of the grouping variable?

n_violin_max
: integer from=0. This optional argument specifies the maximum number of levels of the group_var for which violin plots will be shown in the figure.

no_overall_in_bin
: logical Suppress overall distribution in 'margins' figures for binary outcomes

no_geom_count_in_bin
: logical Suppress counts 'margins' figures for binary outcomes, so they . are not always including 0 and 1.

Details

Limitations

Selecting the appropriate distribution is complex. Dozens of continuous, discrete or mixed distributions are conceivable in the context of epidemiological data. Their exact exploration is beyond the scope of this data quality approach. The present function uses the help function util_dist_selection, the assigned SCALE_LEVEL and the DATA_TYPE to discriminate the following cases:

- continuous data

- binary data
- count data with <= 20 distinct values
- count data with > 20 distinct values (treated as continuous)
- nominal data
- ordinal data

Continuous data and count data with more than 20 distinct values are analyzed by linear models. Count data with up to 20 distinct values are modeled by a Poisson regression. For binary data, the implementation uses logistic regression. Nominal response variables will either be transformed to binary variables or analyzed by multinomial logistic regression models. The latter option is only available if the argument `dichotomize_categorical_resp` is set to `FALSE` and if the package `nnet` is installed. The transformation to a binary variable can be user-specified using the metadata columns `RECODE_CASES` and/or `RECODE_CONTROL`. Otherwise, the most frequent category will be assigned to cases and the remaining categories to control. For ordinal response variables, the argument `cut_off_linear_model_for_ord` controls whether the data is analyzed in the same way as continuous data: If every level of the variable has at least as many observations as specified in the argument, the data will be analyzed by a linear model. Otherwise, the data will be modeled by a ordered regression, if the package `ordinal` is installed.

Value

a list with:

- `SummaryTable`: data.frame underlying the plot
- `ResultData`: data.frame
- `SummaryPlot`: `ggplot2::ggplot()` margins plot

See Also

Online Documentation

`acc_multivariate_outlier`

Calculate and plot Mahalanobis distances

Description

A standard tool to detect multivariate outliers is the Mahalanobis distance. This approach is very helpful for the interpretation of the plausibility of a measurement given the value of another. In this approach the Mahalanobis distance is used as a univariate measure itself. We apply the same rules for the identification of outliers as in univariate outliers:

- the classical approach from Tukey: $1.5 * IQR$ from the 1st (Q_{25}) or 3rd (Q_{75}) quartile.
- the 3SD approach, i.e. any measurement of the Mahalanobis distance not in the interval of $\bar{x} \pm 3 * \sigma$ is considered an outlier.

- the approach from Hubert for skewed distributions which is embedded in the R package **robustbase**
- a completely heuristic approach named σ-gap.

For further details, please see the vignette for univariate outlier.

Indicator

Usage

```
acc_multivariate_outlier(
  variable_group = NULL,
  id_vars = NULL,
  label_col = VAR_NAMES,
  study_data,
  item_level = "item_level",
  n_rules = 4,
  max_non_outliers_plot = 10000,
  criteria = c("tukey", "3sd", "hubert", "sigmagap"),
  meta_data = item_level,
  meta_data_v2,
  scale = getOption("dataquieR.acc_multivariate_outlier.scale",
    dataquieR.acc_multivariate_outlier.scale_default),
  multivariate_outlier_check = TRUE
)
```

Arguments

`variable_group`	variable list the names of the continuous measurement variables building a group, for that multivariate outliers make sense.
`id_vars`	variable optional, an ID variable of the study data. If not specified row numbers are used.
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`study_data`	data.frame the data frame that contains the measurements
`item_level`	data.frame the data frame that contains metadata attributes of study data
`n_rules`	numeric from=1 to=4. the no. of rules that must be violated to classify as outlier
`max_non_outliers_plot`	integer from=0. Maximum number of non-outlier points to be plot. If more points exist, a subsample will be plotted only. Note, that sampling is not deterministic.
`criteria`	set tukey | 3SD | hubert | sigmagap. a vector with methods to be used for detecting outliers.
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`scale`	logical Should min-max-scaling be applied per variable?

`multivariate_outlier_check`
logical really check, pipeline use, only.

Value

a list with:

- `SummaryTable`: data.frame underlying the plot
- `SummaryPlot`: ggplot2::ggplot2 outlier plot
- `FlaggedStudyData` data.frame contains the original data frame with the additional columns `tukey`, `3SD`, `hubert`, and `sigmagap`. Every observation is coded 0 if no outlier was detected in the respective column and 1 if an outlier was detected. This can be used to exclude observations with outliers.

ALGORITHM OF THIS IMPLEMENTATION:

- Implementation is restricted to variables of type float
- Remove missing codes from the study data (if defined in the metadata)
- The covariance matrix is estimated for all variables from `variable_group`
- The Mahalanobis distance of each observation is calculated $MD_i^2 = (x_i - \mu)^T \Sigma^{-1} (x_i - \mu)$
- The four rules mentioned above are applied on this distance for each observation in the study data
- An output data frame is generated that flags each outlier
- A parallel coordinate plot indicates respective outliers

List function.

See Also

Online Documentation

`acc_repeated_measurements`
Check repeated measurements

Description

Computes repeated-measurement checks for one cross-item group.

Indicator

Usage

```
acc_repeated_measurements(
  variable_group = NULL,
  study_data,
  label_col = VAR_NAMES,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  repeated_measures_metric = "",
  repeated_measures_reference = "",
  repeated_measures_reference_vars = repeated_measures_reference,
  repeated_measures_metric_setting = "",
  repeated_measurement_settings = c("statistical_settings",
    "repeated_measurement_settings")
)
```

Arguments

`variable_group` variable list the names of the repeated-measurement variables. If empty, all eligible repeated-measurement groups from cross-item metadata are computed.

`study_data` data.frame the data frame that contains the measurements

`label_col` variable attribute the name of the column in the metadata with labels of variables

`item_level` data.frame the data frame that contains metadata attributes of study data

`meta_data` data.frame old name for `item_level`

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`repeated_measures_metric` character requested repeated-measurement methods. Direct calls may use a pipe-separated list.

`repeated_measures_reference` variable optional reference variable from `variable_group`. Alias for `repeated_measures_reference_v`

`repeated_measures_reference_vars` variable optional reference variable from `variable_group`.

`repeated_measures_metric_setting` character optional setting id(s) from `REPEATED_MEASURES_METRIC_SETTING`.

`repeated_measurement_settings` data.frame optional statistical settings table or a registered data frame name.

Value

a list with:

- `VariableGroupTable`: data.frame with indicator-metric columns
- `VariableGroupData`: data.frame with report-facing labels
- `OtherTable`: data.frame with one row per comparison and method

acc_robust_univariate_outlier

Identify univariate outliers by four different approaches

Description

A classical but still popular approach to detect univariate outlier is the boxplot method introduced by Tukey 1977. The boxplot is a simple graphical tool to display information about continuous univariate data (e.g., median, lower and upper quartile). Outliers are defined as values deviating more than $1.5 \times IQR$ from the 1st (Q25) or 3rd (Q75) quartile. The strength of Tukey's method is that it makes no distributional assumptions and thus is also applicable to skewed or non mound-shaped data Marsh and Seo, 2006. Nevertheless, this method tends to identify frequent measurements which are falsely interpreted as true outliers.

A somewhat more conservative approach in terms of symmetric and/or normal distributions is the 3SD approach, i.e. any measurement not in the interval of $mean(x) + / - 3 * \sigma$ is considered an outlier.

Both methods mentioned above are not ideally suited to skewed distributions. As many biomarkers such as laboratory measurements represent in skewed distributions the methods above may be insufficient. The approach of Hubert and Vandervieren 2008 adjusts the boxplot for the skewness of the distribution. This approach is implemented in several R packages such as `robustbase::mc` which is used in this implementation of `dataquieR`.

Another completely heuristic approach is also included to identify outliers. The approach is based on the assumption that the distances between measurements of the same underlying distribution should homogeneous. For comprehension of this approach:

- consider an ordered sequence of all measurements.
- between these measurements all distances are calculated.
- the occurrence of larger distances between two neighboring measurements may than indicate a distortion of the data. For the heuristic definition of a large distance $1 * \sigma$ has been been chosen.

Note, that the plots are not deterministic, because they use ggplot2::geom_jitter.

Indicator

Usage

```
acc_robust_univariate_outlier(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  exclude_roles,
  n_rules = length(unique(criteria)),
  max_non_outliers_plot = 10000,
  criteria = c("tukey", "3sd", "hubert", "sigmagap"),
```

```
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
exclude_roles	variable roles a character (vector) of variable roles not included
n_rules	integer from=1 to=4. the no. rules that must be violated to flag a variable as containing outliers. The default is 4, i.e. all.
max_non_outliers_plot	integer from=0. Maximum number of non-outlier points to be plot. If more points exist, a subsample will be plotted only. Note, that sampling is not deterministic.
criteria	set tukey | 3SD | hubert | sigmagap. a vector with methods to be used for detecting outliers.
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Details

Hint: *The function is designed for unimodal data only.*

Value

a list with:

- SummaryTable: data.frame with the columns Variables, Mean, SD, Median, Skewness, Tukey (N), 3SD (N), Hubert (N), Sigma-gap (N), NUM_acc_ud_outlu, Outliers, low (N), Outliers, high (N) Grading
  - SummaryData: data.frame with the columns Variables, Mean, SD, Median, Skewness, Tukey (N), 3SD (N), Hubert (N), Sigma-gap (N), Outliers (N), Outliers, low (N), Outliers, high (N)
  - SummaryPlotList: ggplot2::ggplot univariate outlier plots

ALGORITHM OF THIS IMPLEMENTATION:

- Select all variables of type float in the study data
- Remove missing codes from the study data (if defined in the metadata)
- Remove measurements deviating from limits defined in the metadata

- Identify outliers according to the approaches of Tukey (Tukey 1977), 3SD (Saleem et al. 2021), Hubert (Hubert and Vandervieren 2008), and SigmaGap (heuristic)
- An output data frame is generated which indicates the no. possible outliers, the direction of deviations (Outliers, low; Outliers, high) for all methods and a summary score which sums up the deviations of the different rules
- A scatter plot is generated for all examined variables, flagging observations according to the no. violated rules (step 5).

See Also

acc_univariate_outlier

---

acc_shape_or_scale *Compare observed versus expected distributions*

Description

This implementation contrasts the empirical distribution of a measurement variables against assumed distributions. The approach is adapted from the idea of rootograms (Tukey 1977) which is also applicable for count data (Kleiber and Zeileis 2016).

Indicator

Usage

```
acc_shape_or_scale(
  resp_vars,
  study_data,
  label_col,
  item_level = "item_level",
  dist_col,
  guess,
  par1,
  par2,
  end_digits,
  flip_mode = "noflip",
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables

item_level	data.frame the data frame that contains metadata attributes of study data
dist_col	variable attribute the name of the variable attribute in meta_data that provides the expected distribution of a study variable
guess	logical estimate parameters
par1	numeric first parameter of the distribution if applicable
par2	numeric second parameter of the distribution if applicable
end_digits	logical internal use. check for end digits preferences
flip_mode	enum default | flip | noflip | auto. Should the plot be in default orientation, flipped, not flipped or auto-flipped. Not all options are always supported. In general, this con be controlled by setting the `roptions(dataquieR.flip_mode = ...)`. If called from `dq_report`, you can also pass `flip_mode` to all function calls or set them specifically using `specific_args`.
meta_data	data.frame old name for `item_level`
meta_data_v2	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Value

a list with:

- `ResultData`: data.frame underlying the plot
- `SummaryPlot`: ggplot2::ggplot2 probability distribution plot
- `SummaryTable`: data.frame with the columns `Variables` and `FLG_acc_ud_shape`

ALGORITHM OF THIS IMPLEMENTATION:

- `resp_vars` identifies one interval or ratio scaled measurement variable of type float or integer.
- Missing codes are removed from resp_vars (if defined in the metadata)
- The user must specify the column of the metadata containing probability distribution (currently only: normal, uniform, gamma)
- Parameters of each distribution can be estimated from the data or are specified by the user
- A histogram-like plot contrasts the empirical vs. the technical distribution

See Also

Online Documentation

acc_univariate_outlier

Identify univariate outliers by four different approaches

Description

A classical but still popular approach to detect univariate outlier is the boxplot method introduced by Tukey 1977. The boxplot is a simple graphical tool to display information about continuous univariate data (e.g., median, lower and upper quartile). Outliers are defined as values deviating more than $1.5 \times IQR$ from the 1st (Q25) or 3rd (Q75) quartile. The strength of Tukey's method is that it makes no distributional assumptions and thus is also applicable to skewed or non mound-shaped data Marsh and Seo, 2006. Nevertheless, this method tends to identify frequent measurements which are falsely interpreted as true outliers.

A somewhat more conservative approach in terms of symmetric and/or normal distributions is the 3SD approach, i.e. any measurement not in the interval of $mean(x) + / - 3 * \sigma$ is considered an outlier.

Both methods mentioned above are not ideally suited to skewed distributions. As many biomarkers such as laboratory measurements represent in skewed distributions the methods above may be insufficient. The approach of Hubert and Vandervieren 2008 adjusts the boxplot for the skewness of the distribution. This approach is implemented in several R packages such as `robustbase::mc` which is used in this implementation of `dataquieR`.

Another completely heuristic approach is also included to identify outliers. The approach is based on the assumption that the distances between measurements of the same underlying distribution should homogeneous. For comprehension of this approach:

- consider an ordered sequence of all measurements.
- between these measurements all distances are calculated.
- the occurrence of larger distances between two neighboring measurements may than indicate a distortion of the data. For the heuristic definition of a large distance $1 * \sigma$ has been been chosen.

Note, that the plots are not deterministic, because they use ggplot2::geom_jitter.

Indicator

Usage

```
acc_univariate_outlier(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  exclude_roles,
  n_rules = length(unique(criteria)),
  max_non_outliers_plot = 10000,
  criteria = c("tukey", "3sd", "hubert", "sigmagap"),
```

```
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
exclude_roles	variable roles a character (vector) of variable roles not included
n_rules	integer from=1 to=4. the no. rules that must be violated to flag a variable as containing outliers. The default is 4, i.e. all.
max_non_outliers_plot	integer from=0. Maximum number of non-outlier points to be plot. If more points exist, a subsample will be plotted only. Note, that sampling is not deterministic.
criteria	set tukey | 3SD | hubert | sigmagap. a vector with methods to be used for detecting outliers.
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Details

Hint: *The function is designed for unimodal data only.*

Value

a list with:

- SummaryTable: data.frame with the columns Variables, Mean, SD, Median, Skewness, Tukey (N), 3SD (N), Hubert (N), Sigma-gap (N), NUM_acc_ud_outlu, Outliers, low (N), Outliers, high (N) Grading
  - SummaryData: data.frame with the columns Variables, Mean, SD, Median, Skewness, Tukey (N), 3SD (N), Hubert (N), Sigma-gap (N), Outliers (N), Outliers, low (N), Outliers, high (N)
  - SummaryPlotList: ggplot2::ggplot univariate outlier plots

ALGORITHM OF THIS IMPLEMENTATION:

- Select all variables of type float in the study data
- Remove missing codes from the study data (if defined in the metadata)
- Remove measurements deviating from limits defined in the metadata

- Identify outliers according to the approaches of Tukey (Tukey 1977), 3SD (Saleem et al. 2021), Hubert (Hubert and Vandervieren 2008), and SigmaGap (heuristic)
- An output data frame is generated which indicates the no. possible outliers, the direction of deviations (Outliers, low; Outliers, high) for all methods and a summary score which sums up the deviations of the different rules
- A scatter plot is generated for all examined variables, flagging observations according to the no. violated rules (step 5).

See Also

- acc_robust_univariate_outlier
- Online Documentation

`acc_varcomp` *Utility function to compute model-based ICC depending on the (statistical) data type*

Description

This function is still under construction. It is designed to run for any statistical data type as follows:

- Variables with only two distinct values will be modeled by mixed effects logistic regression.
- Nominal variables will be transformed to binary variables. This can be user-specified using the metadata columns `RECODE_CASES` and/or `RECODE_CONTROL`. Otherwise, the most frequent category will be assigned to cases and the remaining categories to control. As for other binary variables, the ICC will be computed using a mixed effects logistic regression.
- Ordinal variables will be analyzed by linear mixed effects models, if every level of the variable has at least as many observations as specified in the argument `cut_off_linear_model_for_ord`. Otherwise, the data will be modeled by a mixed effects ordered regression, if the package `ordinal` is available.
- Metric variables with integer values are analyzed by linear mixed effects models.
- For variables with data type `float`, the existing implementation `acc_varcomp` is called, which also uses linear mixed effects models.

Indicator

Usage

```
acc_varcomp(
  resp_vars = NULL,
  group_vars = NULL,
  co_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  min_obs_in_subgroup = 10,
```

```
  min_subgroups = getOption("dataquieR.min_group_var_levels",
    dataquieR.min_group_var_levels_default),
  cut_off_linear_model_for_ord = 10,
  threshold_value = lifecycle::deprecated(),
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

`resp_vars` variable the names of the measurement variables, if missing or `NULL`, all variables will be checked

`group_vars` variable list the names of the grouping variables

`co_vars` variable list the names of covariables for adjustment

`study_data` data.frame the data frame that contains the measurements

`label_col` variable attribute the name of the column in the metadata with labels of variables

`item_level` data.frame the data frame that contains metadata attributes of study data

`min_obs_in_subgroup` integer from=0. This optional argument specifies the minimum number of observations that is required to include a subgroup (level) of the `group_var` in the analysis. Subgroups with less observations are excluded.

`min_subgroups` integer from=0. This optional argument specifies the minimum number of subgroups (level) of the `group_var` that is required to run the analysis. If there are less subgroups, the analysis is not conducted.

`cut_off_linear_model_for_ord` integer from=0. This optional argument specifies the minimum number of observations for individual levels of an ordinal outcome (`resp_var`) that is required to run a linear mixed effects model instead of a mixed effects ordered regression (i.e., a cut-off value above which linear models are considered a good approximation). The argument can be set to `NULL` if ordered regression models are preferred for ordinal data in any case.

`threshold_value` Deprecated.

`meta_data` data.frame old name for `item_level`

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Details

Not yet described

Value

The function returns two data frames, 'SummaryTable' and 'SummaryData', that differ only in the names of the columns.

as.character.dataquieR_translated

`as.character` *implementation for the class* `dataquieR_translated`

Description

`dataquieR`'s translated texts featuring access to the language keys, still.

Usage

```
## S3 method for class 'dataquieR_translated'
as.character(x, ...)
```

Arguments

`x`	`dataquieR_translated` object to print
`...`	passed to base::as.character

Value

character with only the translated entries

See Also

base::as.character

as.character.interval

`as.character` *implementation for the class* `interval`

Description

such objects, for now, only occur in `RECCap` rules, so this function is meant for internal use, mostly – for now.

Usage

```
## S3 method for class 'interval'
as.character(x, ...)
```

Arguments

`x`	`interval` objects to convert
`...`	not used yet

Value

interval as character

See Also

base::as.character

---

as.data.frame.dataquieR_resultset

Convert a full `dataquieR` *report to a* `data.frame`

Description

Deprecated

Usage

```
## S3 method for class 'dataquieR_resultset'
as.data.frame(x, ...)
```

Arguments

`x`	Deprecated
`...`	Deprecated

Value

Deprecated

---

as.list.dataquieR_resultset

Convert a full `dataquieR` *report to a* `list`

Description

Deprecated

Usage

```
## S3 method for class 'dataquieR_resultset'
as.list(x, ...)
```

Arguments

`x`	Deprecated
`...`	Deprecated

Value

Deprecated

---

as.list.dataquieR_resultset2

inefficient way to convert a report to a list. try `prep_set_backend()`

Description

inefficient way to convert a report to a list. try `prep_set_backend()`

Usage

```
## S3 method for class 'dataquieR_resultset2'
as.list(x, ...)
```

Arguments

x	dataquieR_resultset2
...	no used

Value

list

ASSOCIATION_DIRECTION *Cross-item level metadata attribute name*

Description

The allowable direction of an association. The input is a string that can be either "positive" or "negative".

Usage

```
ASSOCIATION_DIRECTION
```

See Also

meta_data_cross_item

Other meta_data_cross_item: `ASSOCIATION_FORM`, `ASSOCIATION_METRIC`, `ASSOCIATION_RANGE`, `CHECK_ID`, `CHECK_LABEL`, `COMPUTED_VARIABLE_ROLES`, `CONTRADICTION_TERM`, `CONTRADICTION_TYPE`, `DATA_PREPARATION`, `IRV`, `MAHALANOBIS_RATIO`, `MAHALANOBIS_THRESHOLD`, `MAXIMUM_LONG_STRING`, `MISS_RESP`, `MULTIVARIATE_OUTLIER_CHECK`, `MULTIVARIATE_OUTLIER_CHECKTYPE`, `PSYCHOMETRIC_ANT`, `PSYCHOMETRIC_SYN`, `RELCOMPL_SPEED`, `REPEATED_MEASURES_METRIC`, `REPEATED_MEASURES_METRIC_SETTING`, `REPEATED_MEASURES_REFERENCE`, `RESPT_PER_ITEM`, `SCALE_ACRONYM`, `SCALE_NAME`, `SUM_ATTENTION_CHECK_ITEMS`, `TOTRESPT`, `VARIABLE_LIST`, `VARIABLE_LIST_ORDER`, `meta_data_computation`, `meta_data_cross_item`

ASSOCIATION_FORM *Cross-item level metadata attribute name*

Description

The allowable form of association. The string specifies the form based on a selected list.

Usage

```
ASSOCIATION_FORM
```

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

ASSOCIATION_METRIC *Cross-item level metadata attribute name*

Description

The metric underlying the association in ASSOCIATION_RANGE. The input is a string that specifies the analysis algorithm to be used.

Usage

```
ASSOCIATION_METRIC
```

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

ASSOCIATION_RANGE *Cross-item level metadata attribute name*

Description

Specifies the allowable range of an association. The inclusion of the endpoints follows standard mathematical notation using round brackets for open intervals and square brackets for closed intervals. Values must be separated by a semicolon.

Usage

```
ASSOCIATION_RANGE
```

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

CHECK_ID *Cross-item level metadata attribute name*

Description

Specifies the unique IDs for cross-item level metadata records

Usage

```
CHECK_ID
```

Details

if missing, dataquieR will create such IDs

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

---

CHECK_LABEL *Cross-item level metadata attribute name*

Description

Specifies the unique labels for cross-item level metadata records

Usage

```
CHECK_LABEL
```

Details

if missing, dataquieR will create such labels

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

---

check_table *Data frame with contradiction rules*

Description

Two versions exist, the newer one is used by con_contradictions_redcap and is described here., the older one used by con_contradictions is described here.

See Also

meta_data_cross_item

CODE_CLASSES — *types of value codes*

Description

types of value codes

Usage

```
CODE_CLASSES
```

CODE_LIST_TABLE — *Default Name of the Table featuring Code Lists*

Description

Default Name of the Table featuring Code Lists

Metadata sheet name containing VALUE_LABEL_TABLES This metadata sheet can contain both value labels of several VALUE_LABEL_TABLE and also Missing and JUMP tables

Usage

```
CODE_LIST_TABLE

CODE_LIST_TABLE
```

CODE_ORDER — *Optional ordering column for value-label tables.*

Description

Optional ordering column for value-label tables.

Usage

```
CODE_ORDER
```

COMPUTATION_RULE *Cross-item level metadata attribute name*

Description

Cross-item level metadata attribute name

Usage

```
COMPUTATION_RULE
```

See Also

meta_data_computation

COMPUTED_VARIABLE_ROLES *SSI related Cross-item level metadata attribute names Computed Variable roles can be one of the following:*

Description

- MAXIMUM_LONG_STRING Social Science: Computed Indicator Variable, maximum long string
- IRV Social Science: Computed Indicator Variable, IRV
- TOTRESPT Social Science: Computed Indicator Variable, TOTRESPT
- RESPT_PER_ITEM Social Science: Computed Indicator Variable, RESPT_PER_ITEM
- RELCOMPL_SPEED Social Science: Computed Indicator Variable, RELCOMPL_SPEED
- MISS_RESP Social Science: Computed Indicator Variable, MISS_RESP
- PSYCHOMETRIC_ANT Social Science: Computed Indicator Variable, PSYCHOMETRIC_ANT
- PSYCHOMETRIC_SYN Social Science: Computed Indicator Variable, PSYCHOMETRIC_SYN
- SUM_ATTENTION_CHECK_ITEMS Social Science: Computed Indicator Variable, SUM_ATTENTION_CHECK_ITEMS
- NA Social Science: Computed Indicator Variable – N/A

See Also

VARIABLE_ROLES

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

Other SSI: IRV, MAHALANOBIS_RATIO, MAXIMUM_LONG_STRING, MISS_RESP, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, RESPT_PER_ITEM, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT

com_item_missingness *Summarize missingness columnwise (in variable)*

Description

Item-Missingness (also referred to as item nonresponse (De Leeuw et al. 2003)) describes the missingness of single values, e.g. blanks or empty data cells in a data set. Item-Missingness occurs for example in case a respondent does not provide information for a certain question, a question is overlooked by accident, a programming failure occurs or a provided answer were missed while entering the data.

Indicator

Usage

```
com_item_missingness(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  show_causes = TRUE,
  cause_label_df,
  include_sysmiss = TRUE,
  threshold_value,
  suppressWarnings = FALSE,
  assume_consistent_codes = TRUE,
  expand_codes = assume_consistent_codes,
  drop_levels = FALSE,
  expected_observations = c("HIERARCHY", "ALL", "SEGMENT"),
  pretty_print = lifecycle::deprecated(),
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
show_causes	logical if TRUE, then the distribution of missing codes is shown
cause_label_df	data.frame missing code table. If missing codes have labels the respective data frame can be specified here or in the metadata as assignments, see cause_label_df
include_sysmiss	logical Optional, if TRUE system missingness (NAs) is evaluated in the summary plot

threshold_value
: numeric from=0 to=100. a numerical value ranging from 0-100

suppressWarnings
: logical warn about consistency issues with missing and jump lists

assume_consistent_codes
: logical if TRUE and no labels are given and the same missing/jump code is used for more than one variable, the labels assigned for this code are treated as being be the same for all variables.

expand_codes
: logical if TRUE, code labels are copied from other variables, if the code is the same and the label is set somewhere

drop_levels
: logical if TRUE, do not display unused missing codes in the figure legend.

expected_observations
: enum HIERARCHY | ALL | SEGMENT. If ALL, all observations are expected to comprise all study segments. If SEGMENT, the PART_VAR is expected to point to a variable with values of 0 and 1, indicating whether the variable was expected to be observed for each data row. If HIERARCHY, this is also checked recursively, so, if a variable points to such a participation variable, and that other variable does has also a PART_VAR entry pointing to a variable, the observation of the initial variable is only expected, if both segment variables are 1.

pretty_print
: logical deprecated. If you want to have a human readable output, use SummaryData instead of SummaryTable

meta_data
: data.frame old name for item_level

meta_data_v2
: character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Value

a list with:

- SummaryTable: data frame about item missingness per response variable, including the count (NUM_int_vfe_missunc) and percentage (PCT_int_vfe_missunc) of system-missing values as uncertain missingness status, and the count (NUM_com_qum_spec) and percentage (PCT_com_qum_spec) of missing and jump codes among expected observations that are not system missing
- SummaryData: data frame about item missingness per response variable formatted for user
- SummaryPlot: ggplot2 heatmap plot, if show_causes was TRUE
- ReportSummaryTable: data frame underlying SummaryPlot

ALGORITHM OF THIS IMPLEMENTATION:

- Lists of missing codes and, if applicable, jump codes are selected from the metadata
- The no. of system missings (NA) in each variable is calculated
- The no. of used missing codes is calculated for each variable
- The no. of used jump codes is calculated for each variable
- Two result dataframes (1: on the level of observations, 2: a summary for each variable) are generated
- *OPTIONAL:* if show_causes is selected, one summary plot for all resp_vars is provided

See Also

Online Documentation

---

com_qualified_item_missingness

Compute Indicators for Qualified Item Missingness

Description

Indicator

Usage

```
com_qualified_item_missingness(
  resp_vars,
  study_data,
  label_col = NULL,
  item_level = "item_level",
  expected_observations = c("HIERARCHY", "ALL", "SEGMENT"),
  meta_data = item_level,
  meta_data_v2,
  meta_data_segment,
  segment_level
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data
`expected_observations`	enum HIERARCHY | ALL | SEGMENT. Report the number of observations expected using the old `PART_VAR` concept. See com_item_missingness for an explanation.
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`meta_data_segment`	data.frame – optional: Segment level metadata
`segment_level`	data.frame alias for `meta_data_segment`

Value

A list with:

- `SummaryTable`: data.frame containing data quality checks for "Non-response rate" (`PCT_com_qum_nonresp`) and "Refusal rate" (`PCT_com_qum_refusal`) for each response variable in `resp_vars`.
- `SummaryData`: a data.frame containing data quality checks for "Non-response rate" and "Refusal rate" for a report

---

com_qualified_segment_missingness

Compute Indicators for Qualified Segment Missingness

Description

Indicator

Usage

```
com_qualified_segment_missingness(
  label_col = NULL,
  study_data,
  item_level = "item_level",
  expected_observations = c("HIERARCHY", "ALL", "SEGMENT"),
  meta_data = item_level,
  meta_data_v2,
  meta_data_segment,
  segment_level
)
```

Arguments

`label_col`	variable attribute the name of the column in the metadata with labels of variables
`study_data`	data.frame the data frame that contains the measurements
`item_level`	data.frame the data frame that contains metadata attributes of study data
`expected_observations`	enum HIERARCHY | ALL | SEGMENT. Report the number of observations expected using the old `PART_VAR` concept. See com_item_missingness for an explanation.
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`meta_data_segment`	data.frame Segment level metadata
`segment_level`	data.frame alias for `meta_data_segment`

Value

A list with:

- `SegmentTable`: data.frame containing data quality checks for "Non-response rate" (`PCT_com_qum_nonresp`) and "Refusal rate" (`PCT_com_qum_refusal`) for each segment.
- `SegmentData`: a data.frame containing data quality checks for "Unexpected location" and "Unexpected proportion" per segment for a report

---

com_segment_missingness

Summarizes missingness for individuals in specific segments

Description

This implementation can be applied in two use cases::

1. participation in study segments is not recorded by respective variables, e.g. a participant's refusal to attend a specific examination is not recorded.
2. participation in study segments is recorded by respective variables.

Use case *(1)* will be common in smaller studies. For the calculation of segment missingness it is assumed that study variables are nested in respective segments. This structure must be specified in the static metadata. The R-function identifies all variables within each segment and returns TRUE if all variables within a segment are missing, otherwise FALSE.

Use case *(2)* assumes a more complex structure of study data and metadata. The study data comprise so-called intro-variables (either TRUE/FALSE or codes for non-participation). The column `PART_VAR` in the metadata is filled by variable-IDs indicating for each variable the respective intro-variable. This structure has the benefit that subsequent calculation of item missingness obtains correct denominators for the calculation of missingness rates.

Descriptor

Usage

```
com_segment_missingness(
  study_data,
  item_level = "item_level",
  strata_vars = NULL,
  group_vars = NULL,
  label_col,
  threshold_value,
  direction,
  color_gradient_direction,
  expected_observations = c("HIERARCHY", "ALL", "SEGMENT"),
  exclude_roles = c(VARIABLE_ROLES$PROCESS),
  meta_data = item_level,
  meta_data_v2,
  segment_level,
  meta_data_segment
)
```

Arguments

- `study_data` data.frame the data frame that contains the measurements
- `item_level` data.frame the data frame that contains metadata attributes of study data
- `strata_vars` variable the name of a variable used for stratification, defaults to NULL for not grouping output
- `group_vars` variable list the names of the grouping variables
- `label_col` variable attribute the name of the column in the metadata with labels of variables
- `threshold_value` numeric from=0 to=100. An optional legacy threshold. If omitted, grading rules determine the colors.
- `direction` enum low | high. "high" or "low", i.e. are deviations above/below the threshold critical. This argument is deprecated and replaced by *color_gradient_direction*.
- `color_gradient_direction` enum above | below. "above" or "below", i.e. are deviations above or below the threshold critical? (default: above)
- `expected_observations` enum HIERARCHY | ALL | SEGMENT. If ALL, all observations are expected to comprise all study segments. If SEGMENT, the `PART_VAR` is expected to point to a variable with values of 0 and 1, indicating whether the variable was expected to be observed for each data row. If HIERARCHY, this is also checked recursively, so, if a variable points to such a participation variable, and that other variable does has also a `PART_VAR` entry pointing to a variable, the observation of the initial variable is only expected, if both segment variables are 1.
- `exclude_roles` variable roles a character (vector) of variable roles not included
- `meta_data` data.frame old name for `item_level`
- `meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
- `segment_level` data.frame alias for `meta_data_segment`
- `meta_data_segment` data.frame Segment level metadata. Optional. GRADING_RULESET selects the ruleset for each STUDY_SEGMENT; missing assignments use ruleset `0`.

Details

Implementation and use of thresholds:

Without an explicit `threshold_value`, segment-missingness percentages are colored using the grading rules. An explicitly supplied threshold activates the legacy binary threshold display. If the direction is `above`, values below the threshold are normal and values above the threshold are critical. For `below`, the interpretation is reversed.

Hint:

This function does not support a `resp_vars` argument but `exclude_roles` to specify variables not relevant for detecting a missing segment.

List function.

Value

a list with:

- `ResultData`: data frame about segment missingness. Unless an explicit legacy threshold is active, it includes the effective GRADING_RULESET for every segment.
- `SummaryPlot`: visual summary of segment missingness. An explicitly supplied legacy threshold is applied to this plot.
- `ReportSummaryTable`: data frame underlying `SummaryPlot` for calls without grouping or stratification. Its colors follow grading rules or an explicitly supplied legacy threshold.

See Also

Online Documentation

---

com_unit_missingness *Counts all individuals with no measurements at all*

Description

This implementation examines a crude version of unit missingness or unit-nonresponse (Kalton and Kasprzyk 1986), i.e. if all measurement variables in the study data are missing for an observation it has unit missingness.

The function can be applied on stratified data. In this case strata_vars must be specified.

Descriptor

Usage

```
com_unit_missingness(
  id_vars = NULL,
  strata_vars = NULL,
  label_col,
  study_data,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

`id_vars`	variable list optional, a (vectorized) call of ID-variables that should not be considered in the calculation of unit- missingness
`strata_vars`	variable optional, a string or integer variable used for stratification
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`study_data`	data.frame the data frame that contains the measurements
`item_level`	data.frame the data frame that contains metadata attributes of study data

meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Details

This implementations calculates a crude rate of unit-missingness. This type of missingness may have several causes and is an important research outcome. For example, unit-nonresponse may be selective regarding the targeted study population or technical reasons such as record-linkage may cause unit-missingness.

It has to be discriminated form segment and item missingness, since different causes and mechanisms may be the reason for unit-missingness.

Hint:

This function does not support a resp_vars argument but id_vars, which have a roughly inverse logic behind: id_vars with values do not prevent a row from being considered missing, because an ID is the only hint for a unit that elsewise would not occur in the data at all.

List function.

Value

A list with:

- FlaggedStudyData: data.frame with id-only-rows flagged in a column Unit_missing
- SummaryData: data.frame with numbers and percentages of unit missingness

See Also

Online Documentation

---

contradiction_functions_descriptions
description of the contradiction functions

Description

description of the contradiction functions

Usage

```
contradiction_functions_descriptions
```

CONTRADICTION_TERM *Cross-item level metadata attribute name*

Description

Note: in some prep_-functions, this field is named RULE

Usage

```
CONTRADICTION_TERM
```

Details

Specifies a contradiction rule. Use REDCap like syntax, see online vignette

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

CONTRADICTION_TYPE *Cross-item level metadata attribute name*

Description

Specifies the type of a contradiction. According to the data quality concept, there are logical and empirical contradictions, see online vignette

Usage

```
CONTRADICTION_TYPE
```

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

---

con_attention_check_items

Internal function only existing for technical reasons.

Description

Report the sum of attention check item mismatches.

Indicator

Usage

```
con_attention_check_items(
  resp_vars = NULL,
  study_data,
  label_col = VAR_NAMES,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  meta_data_cross_item = "cross-item_level",
  cross_item_level,
  `cross-item_level`
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

`meta_data_cross_item`
: data.frame – Cross-item level metadata

`cross_item_level`
: data.frame alias for `meta_data_cross_item`

`‘cross-item_level‘`
: data.frame alias for `meta_data_cross_item`

Details

Planned to be removed in future releases.

[Experimental]

Value

a list with:

- `SummaryData`: data.frame table with user friendly caption
- `SummaryTable`: data.frame table with indicators
- `FlaggedStudyData` data.frame contains the original data frame of the variables used to calculate the sum of attention check items with an additional column indicating if the observational unit has a percentage of incorrect bogus or instructed items greater than the threshold.

ALGORITHM OF THIS IMPLEMENTATION:

- Implementation is restricted to attention check variables (e.g., bogus, or instructed response items)
- Remove missing codes from the study data (if defined in the metadata)
- Consider missing values as non-matching expectations
- The matrix is estimated for all variables of `resp_vars` (variables of `ITEM_TYPE` BOGUS or INSTRUCTED, provided in the cross-item level or obtained from item_level column `ITEM_TYPE`)
- Sum of non-matching values (1 if non-matching or missing variables, 0 otherwise)
- By default is problematic if the percentage of attention check variables non-matching the expected values is equal to or greater than 50% (`Curran` 2016)

`con_contradictions` *Checks user-defined contradictions in study data*

Description

This approach considers a contradiction if impossible combinations of data are observed in one participant. For example, if age of a participant is recorded repeatedly the value of age is (unfortunately) not able to decline. Most cases of contradictions rest on comparison of two variables.

Important to note, each value that is used for comparison may represent a possible characteristic but the combination of these two values is considered to be impossible. The approach does not consider implausible or inadmissible values.

Descriptor

Usage

```
con_contradictions(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  threshold_value,
  check_table,
  summarize_categories = FALSE,
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data
`threshold_value`	numeric from=0 to=100. a numerical value ranging from 0-100
`check_table`	data.frame contradiction rules table. Table defining contradictions. See details for its required structure.
`summarize_categories`	logical Needs a column 'tag' in the `check_table`. If set, a summary output is generated for the defined categories plus one plot per category.
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Details

Algorithm of this implementation::

- Select all variables in the data with defined contradiction rules (static metadata column CONTRADICTIONS)
- Remove missing codes from the study data (if defined in the metadata)
- Remove measurements deviating from limits defined in the metadata
- Assign label to levels of categorical variables (if applicable)
- Apply contradiction checks on predefined sets of variables
- Identification of measurements fulfilling contradiction rules. Therefore two output data frames are generated:
  - on the level of observation to flag each contradictory value combination, and
  - a summary table for each contradiction check.

- A summary plot illustrating the number of contradictions is generated.

List function.

Value

If `summarize_categories` is `FALSE`: A list with:

- `FlaggedStudyData`: The first output of the contradiction function is a data frame of similar dimension regarding the number of observations in the study data. In addition, for each applied check on the variables an additional column is added which flags observations with a contradiction given the applied check.
- `SummaryTable`: The second output summarizes this information into one data frame. This output can be used to provide an executive overview on the amount of contradictions. This output is meant for automatic digestion within pipelines.
- `SummaryData`: The third output is the same as `SummaryTable` but for human readers.
- `SummaryPlot`: The fourth output visualizes summarized information of `SummaryData`.

if `summarize_categories` is `TRUE`, other objects are returned: one per category named by that category (e.g. "Empirical") containing a result for contradictions within that category only. Additionally, in the slot `all_checks` a result as it would have been returned with `summarize_categories` set to `FALSE`. Finally, a slot `SummaryData` is returned containing sums per Category and an according ggplot2::ggplot in `SummaryPlot`.

See Also

Online Documentation

`con_contradictions_redcap`

Checks user-defined contradictions in study data

Description

This approach considers a contradiction if impossible combinations of data are observed in one participant. For example, if age of a participant is recorded repeatedly the value of age is (unfortunately) not able to decline. Most cases of contradictions rest on comparison of two variables.

Important to note, each value that is used for comparison may represent a possible characteristic but the combination of these two values is considered to be impossible. The approach does not consider implausible or inadmissible values.

Indicator

Usage

```
con_contradictions_redcap(
  study_data,
  item_level = "item_level",
  label_col,
  threshold_value,
  meta_data_cross_item = "cross-item_level",
  use_value_labels,
  summarize_categories = FALSE,
  meta_data = item_level,
  cross_item_level,
  `cross-item_level`,
  meta_data_v2
)
```

Arguments

`study_data` data.frame the data frame that contains the measurements

`item_level` data.frame the data frame that contains metadata attributes of study data

`label_col` variable attribute the name of the column in the metadata with labels of variables

`threshold_value`
: numeric from=0 to=100. a numerical value ranging from 0-100

`meta_data_cross_item`
: data.frame – optional: Cross-item level metadata

`use_value_labels`
: logical Deprecated in favor of DATA_PREPARATION. If set to `TRUE`, labels can be used in the `REDCap` syntax to specify contraction checks for categorical variables. If set to `FALSE`, contractions have to be specified using the coded values. In case that this argument is not set in the function call, it will be set to `TRUE` if the metadata contains a column `VALUE_LABELS` which is not empty.

  `con_contradictions_redcap()` expects contradiction rules in the cross-item level metadata. See the online documentation for the cross-item metadata structure.

`summarize_categories`
: logical Needs a column `CONTRADICTION_TYPE` in the `meta_data_cross_item`. If set, a summary output is generated for the defined categories plus one plot per category. Categories cannot currently be configured through metadata.

`meta_data` data.frame old name for `item_level`

`cross_item_level`
: data.frame alias for `meta_data_cross_item`

`‘cross-item_level‘`
: data.frame alias for `meta_data_cross_item`

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Details

Algorithm of this implementation::

- Remove missing codes from the study data (if defined in the metadata)
- Remove measurements deviating from limits defined in the metadata
- Assign label to levels of categorical variables (if applicable)
- Apply contradiction checks (given as `REDCap`-like rules in a separate metadata table)
- Identification of measurements fulfilling contradiction rules. Therefore two output data frames are generated:
  - on the level of observation to flag each contradictory value combination, and
  - a summary table for each contradiction check.
- A summary plot illustrating the number of contradictions is generated.

List function.

Value

If `summarize_categories` is `FALSE`: A list with:

- `FlaggedStudyData`: The first output of the contradiction function is a data frame of similar dimension regarding the number of observations in the study data. In addition, for each applied check on the variables an additional column is added which flags observations with a contradiction given the applied check.
- `VariableGroupData`: The second output summarizes this information into one data frame. This output can be used to provide an executive overview on the amount of contradictions.
- `VariableGroupTable`: A subset of `VariableGroupData` used within the pipeline.
- `SummaryPlot`: The third output visualizes summarized information of `SummaryData`.

If `summarize_categories` is `TRUE`, other objects are returned: A list with one element `Other`, a list with the following entries: One per category named by that category (e.g. "Empirical") containing a result for contradiction checks within that category only. Additionally, in the slot `all_checks`, a result as it would have been returned with `summarize_categories` set to `FALSE`. Finally, in the top-level list, a slot `SummaryData` is returned containing sums per Category and an according ggplot2::ggplot in `SummaryPlot`.

Author(s)

Thomas J. Musholt contributed the contradiction-type readability improvements for the summary plot.

See Also

Online Documentation for the function meta_data_cross_item Online Documentation for the required cross-item-level metadata

con_inadmissible_categorical

Detects variable levels not specified in metadata

Description

For each categorical variable, value lists should be defined in the metadata. This implementation will examine, if all observed levels in the study data are valid.

Indicator

Usage

```
con_inadmissible_categorical(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  threshold_value = 0,
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
threshold_value	numeric from=0 to=100. a numerical value ranging from 0-100.
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Details

Algorithm of this implementation::

- Remove missing codes from the study data (if defined in the metadata)
- Interpretation of variable specific VALUE_LABELS as supplied in the metadata.
- Identification of measurements not corresponding to the expected categories. Therefore two output data frames are generated:
  - on the level of observation to flag each undefined category, and

  - a summary table for each variable.
- Values not corresponding to defined categories are removed in a data frame of modified study data

Value

a list with:

- `SummaryData`: data frame summarizing inadmissible categories with the columns:
  - `Variables`: variable name/label
  - `OBSERVED_CATEGORIES`: the categories observed in the study data
  - `DEFINED_CATEGORIES`: the categories defined in the metadata
  - `NON_MATCHING`: the categories observed but not defined
  - `NON_MATCHING_N`: the number of observations with categories not defined
  - `NON_MATCHING_N_PER_CATEGORY`: the number of observations for each of the unexpected categories
- `SummaryTable`: data frame for the `dataquieR` pipeline reporting the number and percentage of inadmissible categorical values
- `ModifiedStudyData`: study data having inadmissible categories removed
- `FlaggedStudyData`: study data having cases with inadmissible categories flagged

See Also

Online Documentation

`con_inadmissible_vocabulary`

Detects variable levels not specified in standardized vocabulary

---

Description

For each categorical variable, value lists should be defined in the metadata. This implementation will examine, if all observed levels in the study data are valid.

Indicator

Usage

```
con_inadmissible_vocabulary(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  threshold_value = 0,
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
threshold_value	numeric from=0 to=100. a numerical value ranging from 0-100.
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Details

Algorithm of this implementation::

- Remove missing codes from the study data (if defined in the metadata)
- Interpretation of variable specific VALUE_LABELS as supplied in the metadata.
- Identification of measurements not corresponding to the expected categories. Therefore two output data frames are generated:
  - on the level of observation to flag each undefined category, and
  - a summary table for each variable.
- Values not corresponding to defined categories are removed in a data frame of modified study data

Value

a list with:

- SummaryData: data frame summarizing inadmissible categories with the columns:
  - Variables: variable name/label
  - OBSERVED_CATEGORIES: the categories observed in the study data
  - DEFINED_CATEGORIES: the categories defined in the metadata
  - NON_MATCHING: the categories observed but not defined
  - NON_MATCHING_N: the number of observations with categories not defined
  - NON_MATCHING_N_PER_CATEGORY: the number of observations for each of the unexpected categories
  - GRADING: indicator TRUE/FALSE if inadmissible categorical values were observed (more than indicated by the threshold_value)
- SummaryTable: data frame for the dataquieR pipeline reporting the number and percentage of inadmissible categorical values
- ModifiedStudyData: study data having inadmissible categories removed
- FlaggedStudyData: study data having cases with inadmissible categories flagged

See Also

Online Documentation

Examples

```
## Not run:
sdt <- data.frame(
  DIAG = c("B050", "B051", "B052", "B999"),
  MED0 = c("S01XA28", "N07XX18", "ABC", NA), stringsAsFactors = FALSE
)
mdt <- tibble::tribble(
  ~VAR_NAMES, ~DATA_TYPE, ~STANDARDIZED_VOCABULARY_TABLE, ~SCALE_LEVEL, ~LABEL,
  "DIAG", "string", "<ICD10>", "nominal", "Diagnosis",
  "MED0", "string", "<ATC>", "nominal", "Medication"
)
con_inadmissible_vocabulary(NULL, sdt, mdt, label_col = LABEL)
prep_load_workbook_like_file("meta_data_v2")
il <- prep_get_data_frame("item_level")
il[[STANDARDIZED_VOCABULARY_TABLE]][[11]] <- "<ICD10GM>"
il[[DATA_TYPE]][[11]] <- DATA_TYPES$INTEGER
il[[SCALE_LEVEL]][[11]] <- SCALE_LEVELS$NOMINAL
prep_add_data_frames(item_level = il)
r <- dq_report2("study_data", dimensions = "con")
r <- dq_report2("study_data",
  dimensions = "con",
  advanced_options = list(dataquieR.non_disclosure = TRUE)
)
r

## End(Not run)
```

---

con_limit_deviations *Detects variable values exceeding limits defined in metadata*

Description

Inadmissible numerical values can be of type integer or float. This implementation requires the definition of intervals in the metadata to examine the admissibility of numerical study data.

This helps identify inadmissible measurements according to hard limits (for multiple variables).

Indicator

Usage

```
con_limit_deviations(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
```

```
  meta_data_cross_item = "cross-item_level",
  limits = NULL,
  flip_mode = "noflip",
  return_flagged_study_data = FALSE,
  return_limit_categorical = TRUE,
  meta_data = item_level,
  cross_item_level,
  `cross-item_level`,
  meta_data_v2,
  show_obs = TRUE
)
```

Arguments

`resp_vars` variable the names of the measurement variables, if missing or `NULL`, all variables will be checked

`study_data` data.frame the data frame that contains the measurements

`label_col` variable attribute the name of the column in the metadata with labels of variables

`item_level` data.frame the data frame that contains metadata attributes of study data

`meta_data_cross_item` data.frame – optional: Cross-item level metadata

`limits` enum HARD_LIMITS | SOFT_LIMITS | DETECTION_LIMITS. what limits from metadata to check for

`flip_mode` enum default | flip | noflip | auto. Should the plot be in default orientation, flipped, not flipped or auto-flipped. Not all options are always supported. In general, this con be controlled by setting the `roptions(dataquieR.flip_mode = ...)`. If called from `dq_report`, you can also pass `flip_mode` to all function calls or set them specifically using `specific_args`.

`return_flagged_study_data` logical return `FlaggedStudyData` in the result

`return_limit_categorical` logical if TRUE return limit deviations also for categorical variables

`meta_data` data.frame old name for `item_level`

`cross_item_level` data.frame alias for `meta_data_cross_item`

`‘cross-item_level‘` data.frame alias for `meta_data_cross_item`

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`show_obs` logical Should (selected) individual observations be marked in the figure for continuous variables?

Details

Algorithm of this implementation::

- Remove missing codes from the study data (if defined in the metadata)
- Interpretation of variable specific intervals as supplied in the metadata.
- Identification of measurements outside defined limits. Therefore two output data frames are generated:
  - on the level of observation to flag each deviation, and
  - a summary table for each variable.
- A list of plots is generated for each variable examined for limit deviations. The histogram-like plots indicate respective limits as well as deviations.
- Values exceeding limits are removed in a data frame of modified study data

Value

a list with:

- `FlaggedStudyData` data.frame related to the study data by a 1:1 relationship, i.e. for each observation is checked whether the value is below or above the limits. Optional, see `return_flagged_study_data`.
- `SummaryTable` data.frame summarizing limit deviations for each variable.
- `SummaryData` data.frame summarizing limit deviations for each variable for a report.
- `SummaryPlotList` list of ggplot2::ggplots The plots for each variable are either a histogram (continuous) or a barplot (discrete).
- `ReportSummaryTable`: heatmap-like data frame about limit violations

See Also

- Online Documentation

`con_schema_nonadherence`

Check structured text data for schema nonadherence

Description

This function checks adherence to `STRUCTURED_TEXT_SCHEMA` for entries whose `EXTENDED_DATA_TYPE` is JSON or XML. It checks data against the schema or to a subschema pointed to by STRUCTURED_TEXT_SCHEMA_REFERENCE. A reference starts with the schema filename when read from a file (e.g. `my_schema.json#/definitions/MyDefinition`) and with `#` otherwise (e.g. `#/definitions/MyDefinition`).

Indicator

Usage

```
con_schema_nonadherence(
  resp_vars,
  study_data,
  label_col = NULL,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  segment_level,
  meta_data_segment = "segment_level"
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`segment_level`	data.frame alias for `meta_data_segment`
`meta_data_segment`	data.frame – optional: Segment level metadata

Details

[Experimental]

Value

A list with:

- `SummaryTable`: a data.frame containing data quality checks for a variety of data quality indicators mapped from corresponding JSON-schema keywords for each response variable in `resp_vars`. In the case of XML, just general nonadherence is tested.
- `ReportSummaryTable`: a data.frame for the heatmap.
- `SummaryData`: a data.frame with more readable column names.

`con_ssi_range_check` *Internal function only existing for technical reasons. Planned to be removed in future releases.*

Description

Report the social science indicators inadmissible values according to limits defined by users in the cross-item level metadata

Indicator

Usage

```
con_ssi_range_check(
  resp_vars = NULL,
  study_data,
  label_col = VAR_NAMES,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  meta_data_cross_item = "cross-item_level",
  cross_item_level,
  `cross-item_level`,
  flip_mode = "noflip",
  return_flagged_study_data = FALSE,
  show_obs = TRUE
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`meta_data_cross_item`	data.frame – Cross-item level metadata
`cross_item_level`	data.frame alias for `meta_data_cross_item`
`‘cross-item_level‘`	data.frame alias for `meta_data_cross_item`
`flip_mode`	character optional direction for coordinate flipping in generated plots

`return_flagged_study_data`
: logical return `FlaggedStudyData` in the

`show_obs`
: logical Should (selected) individual observations be marked in the figure for continuous variables? result

Details

[Experimental]

Value

a list with:

- `SummaryData`: data.frame table with user friendly caption summarizing limit deviations for each computed social science metric in the report
- `SummaryTable`: data.frame table with indicators
- `SummaryPlotList` list of ggplot2::ggplots The plots for each variable are either a histogram (continuous) or a barplot (discrete).
- `FlaggedStudyData` data.frame related to the study data by a 1:1 relationship, i.e. for each observation is checked whether the value is below or above the limits. Optional, see `return_flagged_study_data`.

ALGORITHM OF THIS IMPLEMENTATION:

- Implementation is restricted to social science metrics (e.g., maximum long string)
- Interpretation of variable specific intervals as supplied in the metadata.
- Identification of measurements outside defined limits. Therefore two output data frames are generated:
  - on the level of observation to flag each deviation, and
  - a summary table for each variable.
- A list of plots is generated for each computed variable examined for limit deviations. The histogram-like plots indicate respective limits as well as deviations.

See Also

Online Documentation

`dataquieR.acc_loess.exclude_constant_subgroups`
Exclude subgroups with constant values from LOESS figure

Description

If this option is set to `TRUE`, time course plots will only show subgroups with more than one distinct value. This might improve the readability of the figure.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.mark_time_poi dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportic dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

---

dataquieR.acc_loess.mark_time_points

Display time-points in LOESS plots

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportic

dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

---

dataquieR.acc_loess.min_bw

Lower limit for the LOESS bandwidth

Description

The value should be greater than 0 and less than or equal to 1. In general, increasing the bandwidth leads to a smoother trend line.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,

dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gr dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_b dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryr dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.acc_loess.min_obs_in_subgroup

Minimum observations for a level to be included by acc_loess()

Description

specify the minimum number of observations required for each of the subgroups. Subgroups with fewer observations are excluded. The default number is 30.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gr dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_b dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,

dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.acc_loess.min_proportion

Lower limit for the proportion of cases or controls to create a smoothed time trend figure

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Description

The value should be greater than 0 and less than 0.4. If the proportion of cases or controls is lower than the specified value, the LOESS figure will not be created for the specified binary outcome.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache

dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.acc_loess.plot_format
default for Plot-Format in acc_loess()

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.acc_loess.plot_observations

Display observations in LOESS plots

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.acc_margins_num

Include number of observations for each level of the grouping variable in the 'margins' figure

Description

If this option is set to FALSE, the figures created by acc_margins will not include the number of observations for each level of the grouping variable. This can be used to obtain clean static plots.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.acc_margins_sort

Sort levels of the grouping variable in the 'margins' figures

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Description

If this option is set to TRUE, the levels of the grouping variable in the figure are sorted in descending order according to the number of observations so that levels with more observations are easier to identify. Otherwise, the original order of the levels is retained.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.acc_multivariate_outlier.scale`

Apply min-max scaling in parallel coordinates figure to inspect multivariate outliers

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Description

boolean, TRUE or FALSE

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr

dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observa
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_shape_or_scale_ci,
dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply,
dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults,
dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read,
dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code
dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,
dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes,
dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode,
dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

`dataquieR.acc_shape_or_scale_ci`
Method for confidence intervals in `acc_shape_or_scale()` *and* `acc_end_digits()`

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observa
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply,
dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults,
dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read,
dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code
dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,

dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gr dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_b dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryr dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

---

dataquieR.applicability_problem

An exception class assigned for exceptions caused by trying to apply a non-applicable indicator function

---

Description

Amending metadata could make the function running, e.g., a test for missingness without any declared missing codes

Usage

```
dataquieR.applicability_problem
```

---

dataquieR.col_con_con_empirical

Color for empirical contradictions

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta

dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply,
dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults,
dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read,
dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code
dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,
dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes,
dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode,
dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

---

dataquieR.col_con_con_logical
Color for logical contradictions

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.convert_to_list_for_lappl
dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults,
dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read,
dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code
dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,

dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

---

dataquieR.CONDITIONS_LEVEL_TRHESHOLD

Log Level

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescap dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,

dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

---

dataquieR.CONDITIONS_WITH_STACKTRACE

Add stack-trace in condition messages (to be deprecated)

Description

to be deprecated

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescap dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.convert_to_list_for_lapply

If report uses a `storr` *back-end, do not convert to base-list*

Description

if TRUE and a report uses a `storr`-back-end, convert it to a base list, i.e., copy to the RAM, even if this would likely not be really needed for apply-calls

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.debug

Call `browser()` *on errors*

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.des_summary_hard_lim_remove`

Removal of hard limits from data before calculating descriptive statistics.

Description

can be

- TRUE: values outside hard limits will be removed from the data before calculating descriptive statistics
- FALSE: values outside hard limits will not be removed from the original data

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,

dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.dontwrapresults

Disable automatic post-processing of dataquieR *function results*

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,

dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.droplevels_ReportSummaryTable

Show also unused levels in heatmaps

Description

if TRUE, levels not taken will not be displayed when printing/plotting heatmap tables

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro

dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_b
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryr
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cach
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.dt_adjust *character Adjust data types according to metadata*

Description

also reports inadmissible data types. can be turned off for performance reasons, if the data source is already type-safe (e.g., a database) **use with care, may cause pipelines breaking (maybe only in the final rendering step), if the data type is incorrectly set for some columns.**

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_const
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subg
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observa
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.fix_column_type_on_read,
dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_cod
dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,
dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes,
dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode,
dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibilit
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gr
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_b
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryr
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,

dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.ELEMENT_MISSMATCH_CHECKTYPE
Metadata describes more than the current study data

Description

- none: no check will be provided about the match of variables and records available in the study data and described in the metadata
- exact: There must be a 1:1 match between the study data and metadata regarding data frames and segments variables and records
- subset_u: study data are a subset of metadata. All variables from the study data are expected to be present in the metadata, but one or more variables in the metadata are not expected to be present in the study data. In this case a variable present in the study data but not in the metadata would produce an issue.
- subset_m: metadata are a subset of study data. All variables in the metadata are expected to be present in the study data, but one or more variables in the study data are not expected to be present in the metadata.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescap dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,

dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.ERRORS_WITH_CALLER

Set caller for error conditions (to be deprecated)

Description

to be deprecated

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescap dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.fix_column_type_on_read

Try to avoid fallback to string columns when reading files

Description

If a file does not feature column data types or features data types cell-based, choose that type which matches the majority of the sampled cells of a column for the column's data type.

Details

This may make you miss data type problems but it could fix them, so `prep_get_data_frame()` works better.

See Also

Other options: `dataquieR`, `dataquieR.CONDITIONS_LEVEL_TRHESHOLD`, `dataquieR.CONDITIONS_WITH_STACKTRACE`, `dataquieR.ELEMENT_MISSMATCH_CHECKTYPE`, `dataquieR.ERRORS_WITH_CALLER`, `dataquieR.GAM_for_LOESS`, `dataquieR.MAHALANOBIS_THRESHOLD`, `dataquieR.MAX_LABEL_LEN`, `dataquieR.MAX_LONG_LABEL_LEN`, `dataquieR.MAX_VALUE_LABEL_LEN`, `dataquieR.MESSAGES_WITH_CALLER`, `dataquieR.MULTIVARIATE_OUTLIER_CHECK`, `dataquieR.VALUE_LABELS_htmlescaped`, `dataquieR.WARNINGS_WITH_CALLER`, `dataquieR.acc_loess.exclude_consta`
`dataquieR.acc_loess.mark_time_points`, `dataquieR.acc_loess.min_bw`, `dataquieR.acc_loess.min_obs_in_subgr`
`dataquieR.acc_loess.min_proportion`, `dataquieR.acc_loess.plot_format`, `dataquieR.acc_loess.plot_observat`
`dataquieR.acc_margins_num`, `dataquieR.acc_margins_sort`, `dataquieR.acc_multivariate_outlier.scale`, `dataquieR.acc_shape_or_scale_ci`, `dataquieR.col_con_con_empirical`, `dataquieR.col_con_con_logical`, `dataquieR.convert_to_list_for_lapply`, `dataquieR.debug`, `dataquieR.des_summary_hard_lim_remove`, `dataquieR.dontwrapresults`, `dataquieR.droplevels_ReportSummaryTable`, `dataquieR.dt_adjust`, `dataquieR.fix_var_name_prefixes_label`, `dataquieR.flip_mode`, `dataquieR.force_item_specific_missing_code`
`dataquieR.force_label_col`, `dataquieR.force_rstudio_user_cluster`, `dataquieR.grading_formats`, `dataquieR.grading_rulesets`, `dataquieR.guess_character`, `dataquieR.guess_missing_codes`, `dataquieR.html_table_backend`, `dataquieR.ignore_empty_vars`, `dataquieR.json.schema.strict.mode`, `dataquieR.lang`, `dataquieR.lazy_plots`, `dataquieR.lazy_plots_cache`, `dataquieR.lazy_plots_gg_compatibility`
`dataquieR.locale`, `dataquieR.max_cat_resp_var_levels_in_plot`, `dataquieR.max_group_var_levels_in_plot`, `dataquieR.max_group_var_levels_with_violins`, `dataquieR.min_group_var_levels`, `dataquieR.min_obs_per_gro`
`dataquieR.min_time_points_for_cat_resp_var`, `dataquieR.no_geom_count_in_bin`, `dataquieR.no_overall_in_bi`
`dataquieR.non_disclosure`, `dataquieR.old_factor_handling`, `dataquieR.old_type_adjust`, `dataquieR.parallel.cpus`, `dataquieR.parallel.load.balancing`, `dataquieR.parallel.mode`, `dataquieR.parallel.show.info`, `dataquieR.precomputeStudyData`, `dataquieR.print_block_load_factor`, `dataquieR.progress_fkt_default`, `dataquieR.progress_msg_fkt_default`, `dataquieR.psychometric_cor_pairs`, `dataquieR.resume_checkpoint`, `dataquieR.resume_print`, `dataquieR.scale_level_heuristics_control_binaryre`
`dataquieR.scale_level_heuristics_control_metriclevels`, `dataquieR.study_data_cache_max`, `dataquieR.study_data_cache_metrics`, `dataquieR.study_data_cache_metrics_env`, `dataquieR.study_data_cache`
`dataquieR.study_data_colnames_case_sensitive`, `dataquieR.testdebug`, `dataquieR.traceback`, `dataquieR.type_adjust_parallel`, `progress_init_fkt`

dataquieR.fix_var_name_prefixes_label

Remove repeated variable-name prefixes from display labels.

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibilit dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gr dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_b dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryr dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cach dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.flip_mode

Flip-Mode to Use for figures

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.force_item_specif dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.force_item_specific_missing_codes

Converting MISSING_LIST/JUMP_LIST to a MISSING_LIST_TABLE create on list per item

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Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta

dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,
dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes,
dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode,
dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

`dataquieR.force_label_col`

Control, how the `label_col` *argument is used.*

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_item_specific_missing_codes, dataquieR.force_rstudio_user_cluster,

dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for
dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.force_rstudio_user_cluster

Force caller-owned clusters for report rendering in RStudio

Description

Caller-owned parallel clusters may make RStudio hang during HTML report finalization. This option allows advanced users to force this unsupported configuration.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi

dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryr dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.GAM_for_LOESS

Enable to switch to a general additive model instead of LOESS

Description

If this option is set to TRUE, time course plots will use general additive models (GAM) instead of LOESS when the number of observations exceeds a specified threshold. LOESS computations for large datasets have a high memory consumption.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescap dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryr dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,

dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.grading_formats

Name of the data.frame featuring a format for grading-values

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes,
dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode,
dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

`dataquieR.grading_rulesets`

Name of the data.frame featuring GRADING_RULESET

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_ dataquieR.grading_formats, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibilit dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.guess_character`

For metadata guessing, try to guess DATA_TYPE from the data values

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Description

By default, the DATA_TYPE is derived from the R data type of the study data. However, when data are imported from plain text files, it can be more appropriate to examine the actual values and infer the data type based on their content. This option enables that behavior: set `dataquieR.guess_character` to `TRUE` to infer data types from the observed values rather than relying solely on the column's `class` in the data frame.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

---

`dataquieR.guess_missing_codes`

Control, if `dataquieR` *tries to guess missing-codes from the study data in absence of metadata*

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.html_table_backend`

character HTML table backend for rendered reports

Description

Select the HTML table backend for rendered reports. Supported values are `"auto"`, `"DT2"`, and `"DT"`.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta

dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character,
dataquieR.guess_missing_codes, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode,
dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

`dataquieR.ignore_empty_vars`

character remove variables with only empty values

Description

remove variables with only empty values (`NA`, `". "`, `""` or similar) from reports. `auto` means, such variables are removed, if we have more than 20% of the variables empty.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,

dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character,
dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.json.schema.strict.mode,
dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

Other study_data_cache: dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics
dataquieR.study_data_cache_metrics_env_default, dataquieR.study_data_cache_quick_fill

---

`dataquieR.intrinsic_applicability_problem`

An exception class assigned for exceptions caused by trying to apply a non-applicable indicator function, which is not caused by deficient metadata

---

Description

Also amending meta data could not make the function running, e.g., a test for numbers applied to a character.

Usage

```
dataquieR.intrinsic_applicability_problem
```

`dataquieR.json.schema.strict.mode`

Use strict mode when loading JSON schemas

Description

Logical. Sets the value of strict mode when calling ajv through jsonvalidate::json_schema. This controls e.g. if ajv throws errors on unknown schema keywords.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.lang` *Language-Suffix for metadata Label-Columns*

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat

dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.lazy_plots *character plots realized lazy*

Description

if TRUE, plots are not realized until needed in side reports to save memory.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars,

dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

---

dataquieR.lazy_plots_cache
character cache realizations

Description

if TRUE, realized plots are cached, may need more memory.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character,
dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars,
dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_gg_compat
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,

dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.lazy_plots_gg_compatibility
character be as compatible with ggplot2 *objects as possible*

Description

if TRUE, plot promises are blessed in an S7 class so they behave almost like "real" ggplot2 objects, so you normally do not need to call prep_realize_ggplot() on them. However, this comes with a small memory overhead, so, you can disable this.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.locale *character default language for type conversion*

Description

the language to use for type conversions (en, de, fr, cn, ca, ...) only used by util_adjust_data_type2(), currently

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.MAHALANOBIS_THRESHOLD *Default availability of Mahalanobis based multivariate outlier checks in reports*

Description

a number, see corresponding argument in acc_mahalanobis()

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescap dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.max_cat_resp_var_levels_in_plot

Maximum number of levels of the categorical response variable shown individually in figures

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Description

If there are more levels of a categorical response variable than can be shown individually, they will be collapsed into "other".

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.max_group_var_levels_in_plot

Maximum number of levels of the grouping variable shown individually in figures

---

Description

If there are more examiners or devices than can be shown individually, they will be collapsed into "other".

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,

dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character,
dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars,
dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache,
dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.max_group_var_levels_with_violins

Maximum number of levels of the grouping variable shown with individual histograms ('violins') in 'margins' figures

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Description

If there are more examiners or devices, the figure will be reduced to box-plots to save space.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,

dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_va dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.MAX_LABEL_LEN

Maximum length for variable labels LABEL

Description

All variable labels will be shortened to fit this maximum length. Cannot be smaller than 5 or larger than 200 for technical reasons.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescap dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro

dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.MAX_LONG_LABEL_LEN

Maximum length for long variable labels LONG_LABEL

Description

All long variable labels will be shortened to fit this maximum length. Cannot be smaller than 5 or larger than 200 for technical reasons.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN,
dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescap
dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma
dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio
dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num,
dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci,
dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply,
dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults,
dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read,
dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code
dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,
dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes,
dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode,
dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,

dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.MAX_VALUE_LABEL_LEN

Maximum length for value labels

Description

value labels are restricted to this length

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescap
dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma
dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio
dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num,
dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci,
dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply,
dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults,
dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read,
dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code
dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,
dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes,
dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode,
dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.MESSAGES_WITH_CALLER

Set caller for message conditions (to be deprecated)

Description

to be deprecated

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescape dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.min_group_var_levels

Minimum number of levels in grouping variables

Description

Grouping-variable analyses require at least this many observed levels in a grouping variable. The default is 2, because at least two levels are needed to compare groups.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.min_obs_per_group_var_in_plot`

Minimum number of observations per grouping variable that is required to include an individual level of the grouping variable in a figure

---

Description

Levels of the grouping variable with fewer observations than specified here will be excluded from the figure.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_ dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

---

dataquieR.min_time_points_for_cat_resp_var

Minimum number of data points to create a time course plot for an individual level of a categorical response variable

---

Description

If there are less observations for an individual level of a categorical variable, it will not be shown in the time course plot.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,

dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character,
dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars,
dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache,
dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot,
dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins,
dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.no_geom_count_in_bi
dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling,
dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing,
dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData,
dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default,
dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print,
dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_
dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics
dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive,
dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.MULTIVARIATE_OUTLIER_CHECK
Default availability of multivariate outlier checks in reports

---

Description

can be

- TRUE: for cross-item_level-groups with MULTIVARIATE_OUTLIER_CHECK empty, do a multivariate outlier check
- FALSE: for cross-item_level-groups with MULTIVARIATE_OUTLIER_CHECK empty, don't do a multivariate outlier check
- "auto": for cross-item_level-groups with MULTIVARIATE_OUTLIER_CHECK empty, do multivariate outlier checks, if there is no entry in the column CONTRADICTION_TERM.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma

dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio
dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num,
dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci,
dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply,
dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults,
dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read,
dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code
dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,
dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes,
dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode,
dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility
dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot,
dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gro
dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bi
dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust,
dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode,
dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor,
dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs,
dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryre
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback,
dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.non_disclosure

Remove all observation-level-real-data from reports

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c

dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_fo dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metric dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.no_geom_count_in_bin

Suppress counts 'margins' figures for binary outcomes

Description

so they are not always including 0 and 1.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observa dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_ dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_fo dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing,

dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

---

dataquieR.no_overall_in_bin

Suppress overall distribution in 'margins' figures for binary outcomes

---

Description

Suppress overall distribution in 'margins' figures for binary outcomes

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_ dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

dataquieR.old_factor_handling
character use the old handling of study data already featuring factors

Description

if study_data comes as a data frame, it may already feature factors. if a column has the DATA_TYPE integer in the meta data, the factor was converted to integer using as.integer(), which caused unexpected behavior. if this option is set to "FALSE" (the new default), the conversion will now try to apply as.character(column_data), first.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.old_type_adjust`
character use the old type conversion code (slower)

Description

character use the old type conversion code (slower)

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_ dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.parallel.cpus`
Default number of worker processes for the parallel backend

Description

Integer scalar or NULL. When NULL (the default), the number of workers is auto-detected via util_detect_cores() each time the backend is started.

Mirrors the legacy parallelMap.cpus option, which is still read as a fallback for users coming from older dataquieR versions.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.parallel.load.balancing

Use load-balanced dispatch on the parallel backend

Description

Logical. When TRUE (the default), the backend uses parallel::parLapplyLB() for distributing work across the cluster; otherwise parallel::parLapply().

Mirrors the legacy parallelMap.load.balancing option, which is still read as a fallback for users coming from older dataquieR versions.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.parallel.mode`

Default execution mode for the parallel backend

Description

One of `"local"` (sequential, no cluster), `"socket"` (`PSOCK` cluster), `"multicore"` (`FORK` cluster on Unix; falls back to `PSOCK` on Windows), `"BatchJobs"` or `"batchtools"`. The last two are accepted for source-level compatibility with old code paths but are treated as `"local"` at execution time – use `dq_report2(..., mode = "futures")` together with a `future.batchtools` plan for `HPC` schedulers instead.

The option is unset by default; the backend falls back to the legacy `parallelMap.mode` option, then to `"local"`.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.parallel.show.info`

Print info messages from the parallel backend

Description

Logical. Currently informational only – the in-package backend keeps the verbosity low regardless of this setting – but the option is read and stored so that calling code can query it via `util_parallel_get_options()$settin`

Mirrors the legacy `parallelMap.show.info` option, which is still read as a fallback for users coming from older `dataquieR` versions.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,

dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_ dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.precomputeStudyData

Pre-compute different curation levels of study data

Description

as described in dataquieR.study_data_cache_max, different flavors of the study data are cached. With this option, you control, if before a report is computed, a frequently needed bunch of such flavors are pre-computed and distributed to the compute nodes. However, this may be time- and RAM- consuming, so, you can turn the pre-computation off, which will still allow the individual compute nodes to maintain such a cache but then growing on demand on individual nodes separately, only. If dataquieR.study_data_cache_max cannot handle all flavors, they may still be pre-computed but immediately discarded.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta

dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character,
dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars,
dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache,
dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot,
dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins,
dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for
dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure,
dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus,
dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info,
dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default,
dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print,
dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_
dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics
dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive,
dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

Other study_data_cache: dataquieR.ignore_empty_vars, dataquieR.print_block_load_factor,
dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics
dataquieR.study_data_cache_metrics_env_default, dataquieR.study_data_cache_quick_fill

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dataquieR.print_block_load_factor

numeric

Description

By default, rendering splits work into about ten progress blocks. Set this option to a positive number to multiply the size of parallel compute blocks explicitly. Higher values reduce progress updates but can speed up rendering. Set it to 1 for the most frequent updates or to a large value (for example 1000000) for maximum speed.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat

dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_ dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

Other study_data_cache: dataquieR.ignore_empty_vars, dataquieR.precomputeStudyData, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_metrics_env_default, dataquieR.study_data_cache_quick_fill

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dataquieR.progress_fkt_default

function to call on progress increase

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,

dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character,
dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars,
dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache,
dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot,
dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins,
dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for
dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure,
dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus,
dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info,
dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_msg_fkt_default,
dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print,
dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_
dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics
dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive,
dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.progress_msg_fkt_default

function to call on progress message update

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character,
dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars,
dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache,
dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot,
dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins,
dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for
dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure,

dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_ dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.psychometric_cor_pairs

Absolute value of the Pearson correlation. It is used to identify the pair of variables for the psychometric synonyms or antonyms

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Description

The absolute value identifies item pairs with a stronger study-wide Pearson correlation: positive pairs for psychometric synonyms and negative pairs for psychometric antonyms. The default is `0.6`.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_ dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_

dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics
dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive,
dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.resume_checkpoint

If result already exists in a `storr` *back-end, re-use it*

Description

if TRUE, computation won't be repeated, if a result already exist in the output storr

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
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dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for
dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_
dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics
dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.resume_print`
If output folder is not empty, try to resume stopped `print()`

Description

if `TRUE` and a report was already partially printed with also this option `TRUE`, then, a second call to `print()` will resume the printing.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_ dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_ dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.scale_level_heuristics_control_binaryrecodelimit`
Number of levels to consider a variable ordinal in absence of SCALE_LEVEL

Description

If SCALE_LEVEL is not specified in the meta_data, it will be inferred using a heuristic. This option defines, for numeric variables, the maximum number of distinct data values for a variable to be considered ordinal.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_ dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_ca dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.scale_level_heuristics_control_metriclevels

Number of levels to consider a variable metric in absence of SCALE_LEVEL

Description

If SCALE_LEVEL is not specified in the meta_data, it will be inferred using a heuristic. This option defines, for numeric variables, the maximum number of distinct data values for a variable to be considered categorical, not ordinal.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_ dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.study_data_cache_max

Maximum size of cache for curated study data

Description

dataquieR caches all used flavors of curated study data, e.g., having missing codes replaced by NAs, having hard limits replaced by NA, ... For larger sets of study data this can be very RAM consuming, so you can control here the maximum size for this cache. Also, this cache is distributed to all compute nodes in case of parallel computation, which may be very time- consuming, and, on single-node-parallelization, also, it may be even more RAM-consuming then.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,

dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache_quick_fill, dataquieR.study_data_co dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

Other study_data_cache: dataquieR.ignore_empty_vars, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metr dataquieR.study_data_cache_metrics_env_default, dataquieR.study_data_cache_quick_fill

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dataquieR.study_data_cache_metrics

Collect metrics on cache usage of study data cache

Description

if TRUE, collect metrics on the usage of the study data cache described here: dataquieR.study_data_cache_max. Won't work, fully, if running in parallel. **[Experimental]**

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr

dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observa
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,
dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust,
dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode,
dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_
dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character,
dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars,
dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache,
dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot,
dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins,
dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_fo
dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure,
dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus,
dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info,
dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default,
dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint,
dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit,
dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max,
dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache_quick_fill, dataquieR.study_data_c
dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

Other study_data_cache: dataquieR.ignore_empty_vars, dataquieR.precomputeStudyData,
dataquieR.print_block_load_factor, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics_
dataquieR.study_data_cache_metrics_env_default, dataquieR.study_data_cache_quick_fill

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dataquieR.study_data_cache_metrics_env

environment for storing metrics on the study data cache

Description

this is the environment, where metrics will be stored, if dataquieR.study_data_cache_metrics-option() has been set TRUE. **[Experimental]**

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE,
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS,
dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,
dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK,
dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta
dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr
dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observa
dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,
dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical,
dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove,

dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_quick_fill, dataquieR.study_data_colnam dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

Other study_data_cache: dataquieR.ignore_empty_vars, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env_default, dataquieR.study_data_cache_quick_fill

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dataquieR.study_data_cache_metrics_env_default

Default space for some metrics during report computation

Description

[Experimental]

Usage

```
dataquieR.study_data_cache_metrics_env_default
```

See Also

Other study_data_cache: dataquieR.ignore_empty_vars, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache_quick_fill

dataquieR.study_data_cache_quick_fill

Control the pre-computation of curation levels of study data

Description

as described in dataquieR.precomputeStudyData, different flavors of the study data are cached. With this option, you control, if before a report is computed, only frequently needed bunch of such flavors are pre-computed, or simply all possible flavors. Won't have any effect, if pre-computation has been turned off.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_colna dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

Other study_data_cache: dataquieR.ignore_empty_vars, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache_metrics_env_default

`dataquieR.study_data_colnames_case_sensitive`
character Are column names in study data considered case-sensitive for mapping

Description

if `TRUE`, `colnames(study_data)` replaced by the capitalization used in the metadata using a case-insensitive matching, first.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

`dataquieR.testdebug` *Disable all interactively used metadata-based function argument provision*

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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`dataquieR.traceback` *Include full trace-back in captured conditions*

Description

Caveat: Needs really much memory

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN,

dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.type_adjust_parallel, progress_init_fkt

---

`dataquieR.type_adjust_parallel`

character try to do type adjustments in parallel only, if `dq_report2()` *was called with* `cores = 2` *or higher.*

Description

character try to do type adjustments in parallel only, if `dq_report2()` was called with `cores = 2` or higher.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale,

dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, progress_init_fkt

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dataquieR.VALUE_LABELS_htmlescaped

Assume, all VALUE_LABELS are R*hrefhttps://www.w3.org/International/questions/qa-escapesHTML escaped*

Description

This package option controls the behavior described in its title.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.ma dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgroup, dataquieR.acc_loess.min_proportio dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observations, dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_code dataquieR.force_label_col, dataquieR.force_rstudio_user_cluster, dataquieR.grading_formats,

dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_gr dataquieR.min_time_points_for_cat_resp_var, dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_b dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryr dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cach dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

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dataquieR.WARNINGS_WITH_CALLER

Set caller for warning conditions (to be deprecated)

Description

to be deprecated

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.acc_loess.exclude_constant_subgroups, dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subg dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observa dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_ dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_fo dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus,

dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache
dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel, progress_init_fkt

---

dataquieR_resultset *Internal constructor for the internal class dataquieR_resultset.*

Description

creates an object of the class dataquieR_resultset.

Usage

```
dataquieR_resultset(...)
```

Arguments

...	properties stored in the object

Details

The class features the following methods:

- as.data.frame.dataquieR_resultset, * as.list.dataquieR_resultset, * print.dataquieR_resultset, * summary.dataquieR_resultset

Value

an object of the class dataquieR_resultset.

See Also

dq_report

dataquieR_resultset2-class

Class dataquieR_resultset2.

Description

Class dataquieR_resultset2.

See Also

dq_report2

dataquieR_resultset_verify

Verify an object of class dataquieR_resultset

Description

Deprecated

Usage

```
dataquieR_resultset_verify(...)
```

Arguments

...	Deprecated

Value

Deprecated

DATA_PREPARATION *Cross-item level metadata attribute name*

Description

For contradiction rules, the required pre-processing steps that can be given. Note: MISSING_LABEL, MISSING_INTERPRET may not work for non-factor variables

Usage

```
DATA_PREPARATION
```

Details

LABEL LIMITS MISSING_NA MISSING_LABEL MISSING_INTERPRET

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

DATA_TYPES *Data Types*

Description

Data Types of Study Data:

In the metadata, the following entries are allowed for the variable attribute DATA_TYPE:

Usage

```
DATA_TYPES
```

Details

- `integer` for integer numbers
- `string` for text/string/character data
- `float` for decimal/floating point numbers
- `datetime` for timepoints
- `time` for time of day

Data Types of Function Arguments:

As function arguments, dataquieR uses additional type specifications:

- `numeric` is a numerical value (float or integer), but it is not an allowed `DATA_TYPE` in the metadata. However, some functions may accept `float` or `integer` for specific function arguments. This is, where we use the term `numeric`.
- `enum` allows one element out of a set of allowed options similar to match.arg
- `set` allows a subset out of a set of allowed options similar to match.arg with `several.ok = TRUE`.
- `variable` Function arguments of this type expect a character scalar that specifies one variable using the variable identifier given in the metadata attribute `VAR_NAMES` or, if `label_col` is set, given in the metadata attribute given in that argument. Labels can easily be translated using prep_map_labels
- `variable list` Function arguments of this type expect a character vector that specifies variables using the variable identifiers given in the metadata attribute `VAR_NAMES` or, if `label_col` is set, given in the metadata attribute given in that argument. Labels can easily be translated using prep_map_labels

See Also

integer string

`DATA_TYPES_OF_R_TYPE` *All available data types, mapped from their respective R types*

Description

All available data types, mapped from their respective R types

Usage

```
DATA_TYPES_OF_R_TYPE
```

See Also

`prep_dq_data_type_of`

des_scatterplot_matrix

Compute Pairwise Correlations

Description

works on variable groups (`cross-item_level`), which are expected to show a Pearson correlation

Usage

```
des_scatterplot_matrix(
  label_col,
  study_data,
  item_level = "item_level",
  meta_data_cross_item = "cross-item_level",
  meta_data = item_level,
  meta_data_v2,
  cross_item_level,
  `cross-item_level`
)
```

Arguments

`label_col`	variable attribute the name of the column in the metadata with labels of variables
`study_data`	data.frame the data frame that contains the measurements
`item_level`	data.frame the data frame that contains metadata attributes of study data
`meta_data_cross_item`	data.frame – optional: Cross-item level metadata
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`cross_item_level`	data.frame alias for `meta_data_cross_item`
‘`cross-item_level`‘	data.frame alias for `meta_data_cross_item`

Details

Descriptor

Value

a `list` with the slots:

- `SummaryPlotList`: for each variable group a ggplot2::ggplot object with pairwise correlation plots
- `SummaryData`: table with columns `VARIABLE_LIST`, `cors`, `max_cor`, `min_cor`
- `SummaryTable`: like `SummaryData`, but machine readable and with stable column names.

Examples

```
## Not run:
devtools::load_all()
prep_load_workbook_like_file("meta_data_v2")
des_scatterplot_matrix("study_data")

## End(Not run)
```

---

des_summary *Compute Descriptive Statistics*

Description

generates a descriptive overview of the variables in `resp_vars`.

Descriptor

Usage

```
des_summary(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  hard_limits_removal = getOption("dataquieR.des_summary_hard_lim_remove",
    dataquieR.des_summary_hard_lim_remove_default),
  ...
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data

`meta_data` data.frame old name for `item_level`

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`hard_limits_removal` logical if TRUE values outside hard limits are removed from the data before calculating descriptive statistics. The default is FALSE

`...` arguments to be passed to all called indicator functions if applicable.

Details

If `resp_vars` is missing or empty, all variables in the prepared study data are selected. Selected variables may include multiple variables, but each selected variable must have a defined scale level in the metadata.

Value

a list with:

- `SummaryTable`: data.frame
- `SummaryData`: data.frame

See Also

Online Documentation

Examples

```
## Not run:
xx <- des_summary(study_data = "study_data", meta_data_v2 = "meta_data_v2")
xx$SummaryData

## End(Not run)
```

`des_summary_categorical` *Compute Descriptive Statistics - categorical variables*

Description

generates a descriptive overview of the categorical variables (nominal and ordinal) in `resp_vars`.

Descriptor

Usage

```
des_summary_categorical(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  hard_limits_removal = getOption("dataquieR.des_summary_hard_lim_remove",
    dataquieR.des_summary_hard_lim_remove_default),
  ...
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`hard_limits_removal`	logical if TRUE values outside hard limits are removed from the data before calculating descriptive statistics. The default is FALSE
`...`	arguments to be passed to all called indicator functions if applicable.

Details

If `resp_vars` is missing or empty, all variables in the prepared study data are considered and the result is restricted to nominal or ordinal variables. Selected variables may include multiple variables, but each selected variable must be nominal or ordinal scaled.

Value

a list with:

- `SummaryTable`: data.frame
- `SummaryData`: data.frame

See Also

Online Documentation

Examples

```
## Not run:
prep_load_workbook_like_file("meta_data_v2")
xx <- des_summary_categorical(
  study_data = "study_data", meta_data =
    prep_get_data_frame("item_level")
)
util_html_table(xx$SummaryData)
util_html_table(des_summary_categorical(
  study_data = prep_get_data_frame("study_data"),
  meta_data = prep_get_data_frame("item_level")
)$SummaryData)

## End(Not run)
```

---

des_summary_continuous

Compute Descriptive Statistics - continuous variables

Description

generates a descriptive overview of continuous variables (ratio and interval) in `resp_vars`.

Descriptor

Usage

```
des_summary_continuous(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  hard_limits_removal = getOption("dataquieR.des_summary_hard_lim_remove",
    dataquieR.des_summary_hard_lim_remove_default),
  ...
)
```

Arguments

`resp_vars`	variable the names of the measurement variables, if missing or `NULL`, all variables will be checked
`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data
`meta_data`	data.frame old name for `item_level`

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`hard_limits_removal` logical if TRUE values outside hard limits are removed from the data before calculating descriptive statistics. The default is FALSE

`...` arguments to be passed to all called indicator functions if applicable.

Details

If `resp_vars` is missing or empty, all variables in the prepared study data are considered and the result is restricted to interval or ratio scaled variables. Selected variables may include multiple variables, but each selected variable must be interval or ratio scaled.

Value

a list with:

- `SummaryTable`: data.frame
- `SummaryData`: data.frame

See Also

Online Documentation

Examples

```
## Not run:
prep_load_workbook_like_file("meta_data_v2")
xx <- des_summary_continuous(
  study_data = "study_data", meta_data =
    prep_get_data_frame("item_level")
)
xx$SummaryData

## End(Not run)
```

`DF_CODE` *Data frame level metadata attribute name*

Description

Name of the data frame

Usage

```
DF_CODE
```

See Also

meta_data_dataframe

DF_ELEMENT_COUNT *Data frame level metadata attribute name*

Description

Number of expected data elements in a data frame. numeric. Check only conducted if number entered

Usage

```
DF_ELEMENT_COUNT
```

See Also

meta_data_dataframe

DF_ID_REF_TABLE *Data frame level metadata attribute name*

Description

The name of the data frame containing the reference IDs to be compared with the IDs in the study data set.

Usage

```
DF_ID_REF_TABLE
```

See Also

meta_data_dataframe

DF_ID_VARS — *Data frame level metadata attribute name*

Description

All variables that are to be used as one single ID variable (combined key) in a data frame.

Usage

```
DF_ID_VARS
```

See Also

meta_data_dataframe

DF_NAME — *Data frame level metadata attribute name*

Description

Name of the data frame

Usage

```
DF_NAME
```

See Also

meta_data_dataframe

DF_RECORD_CHECK — *Data frame level metadata attribute name*

Description

The type of check to be conducted when comparing the reference ID table with the IDs delivered in the study data files.

Usage

```
DF_RECORD_CHECK
```

See Also

meta_data_dataframe

DF_RECORD_COUNT *Data frame level metadata attribute name*

Description

Number of expected data records in a data frame. numeric. Check only conducted if number entered

Usage

```
DF_RECORD_COUNT
```

See Also

meta_data_dataframe

DF_UNIQUE_ID *Data frame level metadata attribute name*

Description

Defines expectancies on the uniqueness of the IDs across the rows of a data frame, or the number of times some ID can be repeated.

Usage

```
DF_UNIQUE_ID
```

See Also

meta_data_dataframe

DF_UNIQUE_ROWS *Data frame level metadata attribute name*

Description

Specifies whether identical data is permitted across rows in a data frame (excluding ID variables)

Usage

```
DF_UNIQUE_ROWS
```

See Also

meta_data_dataframe

dim.dataquieR_resultset2

Get the dimensions of a `dq_report2` *result*

Description

Get the dimensions of a `dq_report2` result

Usage

```
## S3 method for class 'dataquieR_resultset2'
dim(x)
```

Arguments

`x`	a `dataquieR_resultset2` result

Value

dimensions

dimensions

Names of DQ dimensions

Description

a vector of data quality dimensions. The supported dimensions are Completeness, Consistency and Accuracy.

Usage

```
dimensions
```

Value

Only a definition, not a function, so no return value

See Also

Data Quality Concept

dimnames.dataquieR_resultset2 *Names of a* dataquieR *report object (v2.0)*

Description

Names of a dataquieR report object (v2.0)

Usage

```
## S3 method for class 'dataquieR_resultset2'
dimnames(x)
```

Arguments

x	the result object

Value

the names

dims *Dimension Titles for Prefixes*

Description

order does matter, because it defines the order in the dq_report2.

Usage

```
dims
```

See Also

util_html_for_var()

util_html_for_dims()

DISTRIBUTIONS *All available probability distributions for acc_shape_or_scale*

Description

- `uniform` For uniform distribution
- `normal` For Gaussian distribution
- `gamma` For a gamma distribution

Usage

```
DISTRIBUTIONS
```

dq_questionnaire *Compute questionnaire or SSI results*

Description

Computes only the Social Science Item (SSI) result objects that are implied by the cross-item metadata. This is a lightweight computation entry point for users who want the questionnaire-specific results directly in R without generating a full `dq_report2()` or `dq_report_by()` HTML report.

Usage

```
dq_questionnaire(
  study_data,
  item_level = "item_level",
  label_col = LABEL,
  meta_data_segment = "segment_level",
  meta_data_dataframe = "dataframe_level",
  meta_data_cross_item = "cross-item_level",
  meta_data_item_computation = "item_computation_level",
  meta_data = item_level,
  meta_data_v2,
  ...,
  cores = NULL,
  ignore_empty_vars = getOption("dataquieR.ignore_empty_vars",
    dataquieR.ignore_empty_vars_default),
  specific_args = list(),
  advanced_options = list(),
  debug_parallel = FALSE,
  resp_vars = character(0),
  filter_result_slots = c("^Summary", "^Segment", "^DataTypePlotList",
    "^ReportSummaryTable", "^Dataframe", "^Result", "^VariableGroup"),
```

```
  mode = c("default", "futures", "queue", "parallel"),
  mode_args = list(),
  cross_item_level,
  `cross-item_level`,
  segment_level,
  dataframe_level,
  item_computation_level,
 .internal = rlang::env_inherits(rlang::caller_env(), parent.env(environment())),
  name_of_study_data,
 dt_adjust = as.logical(getOption("dataquieR.dt_adjust", dataquieR.dt_adjust_default))
)
```

Arguments

`study_data` data.frame the data frame that contains the measurements

`item_level` data.frame the data frame that contains metadata attributes of study data

`label_col` variable attribute the name of the column in the metadata with labels of variables

`meta_data_segment`
data.frame – optional: Segment level metadata

`meta_data_dataframe`
data.frame the data frame that contains the metadata for the data frame level

`meta_data_cross_item`
data.frame – optional: Cross-item level metadata

`meta_data_item_computation`
data.frame optional. computation rules for computed variables.

`meta_data` data.frame old name for `item_level`

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`...` arguments to be passed to all called indicator functions if applicable.

`cores` integer number of cpu cores to use or a named list with arguments for the internal parallel backend (`util_parallel_start`) or NULL, if parallel has already been started by the caller. Can also be a cluster. In RStudio, caller-created clusters may hang during HTML report finalization while thumbnail and embedded HTML files are written. Prefer passing a number, e.g., `cores = 4`, or a backend list, e.g., `cores = list(mode = "socket", cpus = 4)`, so `dataquieR` can create and stop the cluster itself. Alternatively run the same command outside RStudio (on Windows start R from the Start menu, on macOS open Terminal and run R, on Linux run R in a terminal). To force a caller-owned cluster in RStudio, set `options(dataquieR.force_rstudio_user_cluster = TRUE)` or pass `advanced_options = list(dataquieR.force_rstudio_user_cluster = TRUE)`.

`ignore_empty_vars`
enum TRUE | FALSE | auto. See dataquieR.ignore_empty_vars.

`specific_args` list named list of arguments specifically for one of the called functions, the of the list elements correspond to the indicator functions whose calls should be modified. The elements are lists of arguments.

advanced_options
: list options to set during report computation, see `options()`

debug_parallel
: logical print blocks currently evaluated in parallel

resp_vars
: variable the names of the measurement variables, if missing or `NULL`, all variables will be checked

filter_result_slots
: character regular expressions, only if an indicator function's result's name matches one of these, it'll be used for the report. If of length zero, no filtering is performed.

mode
: character work mode for parallel execution. default is "default", the values mean:

  - default: use queue except `cores` has been set explicitly
  - futures: use the `future` package
  - queue: use a queue as described in the examples from the `callr` package by Csárdi and Chang and start sub-processes as workers that evaluate the queue.
  - parallel: use the cluster from `cores` to evaluate all calls of indicator functions using the classic R `parallel` back-ends

mode_args
: list of arguments for the selected `mode`. As of writing this manual, only for the mode queue the argument `step` is supported, which gives the number of function calls that are run by one worker at a time. the default is 6, which gives on most of the tested systems a good balance between synchronization overhead and idling workers.

cross_item_level
: data.frame alias for `meta_data_cross_item`

`cross-item_level`
: data.frame alias for `meta_data_cross_item`

segment_level
: data.frame alias for `meta_data_segment`

dataframe_level
: data.frame alias for `meta_data_dataframe`

item_computation_level
: data.frame alias for `meta_data_item_computation`

.internal
: logical internal use, only.

name_of_study_data
: character name for study data inside the report, internal use.

dt_adjust
: logical whether to trust data types in the study data. if `TRUE`, data types are checked based on the metadata and later casted to the declared type. if your data source is already typed, this can be turned off to speed up computations. see dataquieR.dt_adjust

Details

`dq_questionnaire()` prepares the same metadata inputs as `dq_report2()`, but then generates and evaluates only the SSI calls listed in the package SSI concept metadata. Consequently, consistency and accuracy functions are only run when the SSI metadata mapping marks them as questionnaire-relevant.

Value

If one SSI result is computed, a dataquieR_result. If several SSI results are computed, a combined `master_result` object. If the metadata does not define SSI computations, an empty named list.

Examples

```
## Not run:
dq_questionnaire(meta_data_v2 = "meta_data_v2.xlsx")

## End(Not run)
```

---

dq_report — *Generate a full DQ report*

Description

Deprecated

Usage

```
dq_report(...)
```

Arguments

`...`	Deprecated. Use `dq_report2()`. Its `cores` argument controls parallel report computation and rendering.

Value

Deprecated

---

dq_report2 — *Generate a full DQ report, v2*

Description

Generate a full DQ report, v2

Usage

```
dq_report2(
  study_data,
  item_level = "item_level",
  label_col = LABEL,
  meta_data_segment = "segment_level",
  meta_data_dataframe = "dataframe_level",
  meta_data_cross_item = "cross-item_level",
  meta_data_item_computation = "item_computation_level",
  meta_data = item_level,
  meta_data_v2,
  ...,
  dimensions = c("Completeness", "Consistency"),
  cores = list(mode = "socket", logging = FALSE, cpus = util_detect_cores(),
    load.balancing = TRUE),
  ignore_empty_vars = getOption("dataquieR.ignore_empty_vars",
    dataquieR.ignore_empty_vars_default),
  specific_args = list(),
  advanced_options = list(),
  author = prep_get_user_name(),
  title = "Data quality report",
  subtitle = as.character(Sys.Date()),
  user_info = NULL,
  debug_parallel = FALSE,
  resp_vars = character(0),
  filter_indicator_functions = character(0),
  exclude_indicator_functions = character(0),
  filter_result_slots = c("^Summary", "^Segment", "^DataTypePlotList",
    "^ReportSummaryTable", "^Dataframe", "^Result", "^VariableGroup"),
  mode = c("default", "futures", "queue", "parallel"),
  mode_args = list(),
  notes_from_wrapper = list(),
  storr_factory = NULL,
  amend = FALSE,
  cross_item_level,
  `cross-item_level`,
  segment_level,
  dataframe_level,
  item_computation_level,
 .internal = rlang::env_inherits(rlang::caller_env(), parent.env(environment())),
  checkpoint_resumed = getOption("dataquieR.resume_checkpoint",
    dataquieR.resume_checkpoint_default),
  name_of_study_data,
 dt_adjust = as.logical(getOption("dataquieR.dt_adjust", dataquieR.dt_adjust_default)),
  output_dir = NULL,
  force_overwrite = FALSE,
  dir = NULL
)
```

Arguments

`study_data` data.frame the data frame that contains the measurements

`item_level` data.frame the data frame that contains metadata attributes of study data

`label_col` variable attribute the name of the column in the metadata with labels of variables

`meta_data_segment`
data.frame – optional: Segment level metadata

`meta_data_dataframe`
data.frame the data frame that contains the metadata for the data frame level

`meta_data_cross_item`
data.frame – optional: Cross-item level metadata

`meta_data_item_computation`
data.frame optional. computation rules for computed variables.

`meta_data` data.frame old name for `item_level`

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`...` arguments to be passed to all called indicator functions if applicable.

`dimensions` dimensions Vector of dimensions to address in the report. Allowed values in the vector are Completeness, Consistency, and Accuracy. The generated report will only cover the listed data quality dimensions. Accuracy is computational expensive, so this dimension is not enabled by default. Completeness should be included, if Consistency is included, and Consistency should be included, if Accuracy is included to avoid misleading detections of e.g. missing codes as outliers, please refer to the data quality concept for more details. Integrity is always included. If dimensions is equal to NULL or "all", all dimensions will be covered.

`cores` integer number of cpu cores to use or a named list with arguments for the internal parallel backend (`util_parallel_start`) or NULL, if parallel has already been started by the caller. Can also be a cluster. In RStudio, caller-created clusters may hang during HTML report finalization while thumbnail and embedded HTML files are written. Prefer passing a number, e.g., `cores = 4`, or a backend list, e.g., `cores = list(mode = "socket", cpus = 4)`, so `dataquieR` can create and stop the cluster itself. Alternatively run the same command outside RStudio (on Windows start R from the Start menu, on macOS open Terminal and run R, on Linux run R in a terminal). To force a caller-owned cluster in RStudio, set `options(dataquieR.force_rstudio_user_cluster = TRUE)` or pass `advanced_options = list(dataquieR.force_rstudio_user_cluster = TRUE)`.

`ignore_empty_vars`
enum TRUE | FALSE | auto. See dataquieR.ignore_empty_vars.

`specific_args` list named list of arguments specifically for one of the called functions, the of the list elements correspond to the indicator functions whose calls should be modified. The elements are lists of arguments.

`advanced_options`
list options to set during report computation, see `options()`

author — character author for the report documents.

title — character optional argument to specify the title for the data quality report

subtitle — character optional argument to specify a subtitle for the data quality report

user_info — list additional info stored with the report, e.g., comments, title, ...

debug_parallel — logical print blocks currently evaluated in parallel

resp_vars — variable the names of the measurement variables, if missing or NULL, all variables will be checked

filter_indicator_functions — character regular expressions, only if an indicator function's name matches one of these, it'll be used for the report. If of length zero, no filtering is performed.

exclude_indicator_functions — character regular expressions, if an indicator function's name matches one of these, it'll be excluded from the report. If of length zero, no filtering is performed.

filter_result_slots — character regular expressions, only if an indicator function's result's name matches one of these, it'll be used for the report. If of length zero, no filtering is performed.

mode — character work mode for parallel execution. default is "default", the values mean:

- default: use queue except cores has been set explicitly
- futures: use the future package
- queue: use a queue as described in the examples from the callr package by Csárdi and Chang and start sub-processes as workers that evaluate the queue.
- parallel: use the cluster from cores to evaluate all calls of indicator functions using the classic R parallel back-ends

mode_args — list of arguments for the selected mode. As of writing this manual, only for the mode queue the argument step is supported, which gives the number of function calls that are run by one worker at a time. the default is 6, which gives on most of the tested systems a good balance between synchronization overhead and idling workers.

notes_from_wrapper — list a list containing notes about changed labels by dq_report_by (otherwise NULL)

storr_factory — function NULL, or a function returning a storr object as back-end for the report's results. If used with cores > 1, the storage must be accessible from all cores and capable of concurrent writing according to storr. Hint: dataquieR currently only supports storr::storr_rds(), officially, while other back- ends may nevertheless work, yet, they are not tested.

amend — logical if there is already data in.storr_factory, use it anyways – unsupported, so far!

cross_item_level — data.frame alias for meta_data_cross_item

`‘cross-item_level‘`
: data.frame alias for `meta_data_cross_item`

`segment_level`
: data.frame alias for `meta_data_segment`

`dataframe_level`
: data.frame alias for `meta_data_dataframe`

`item_computation_level`
: data.frame alias for `meta_data_item_computation`

`.internal`
: logical internal use, only.

`checkpoint_resumed`
: logical if using a `storr_factory` and the back- end there is already filled, and if `amend` is missing or set to `TRUE`, compute all missing result and add them to the back-end.

`name_of_study_data`
: character name for study data inside the report, internal use.

`dt_adjust`
: logical whether to trust data types in the study data. if `TRUE`, data types are checked based on the metadata and later casted to the declared type. if your data source is already typed, this can be turned off to speed up computations. see dataquieR.dt_adjust

`output_dir`
: character if `output_dir` is not `NULL`, also create `HTML` output for the report using `print.dataquieR_resultset2()` written to the path `output_dir`

`force_overwrite`
: logical force to overwrite `output_dir`, even if it exists

`dir`
: character alias for `output_dir`.

Details

If `resp_vars` is set, only item-level indicator functions are filtered by the selected measurement variables so far.

See dq_report_by for a way to generate stratified or splitted reports easily.

Value

a dataquieR_resultset2 that can be printed creating a `HTML`-report.

See Also

- as.data.frame.dataquieR_resultset
- as.list.dataquieR_resultset
- print.dataquieR_resultset
- summary.dataquieR_resultset
- dq_report_by

dq_report_by *Generate a stratified full DQ report*

Description

Generate a stratified full DQ report

Usage

```
dq_report_by(
  study_data,
  item_level = "item_level",
  meta_data_segment = "segment_level",
  meta_data_dataframe = "dataframe_level",
  meta_data_cross_item = "cross-item_level",
  meta_data_item_computation = "item_computation_level",
  missing_tables = NULL,
  label_col,
  meta_data_v2,
  segment_column = NULL,
  strata_column = NULL,
  strata_select = NULL,
  selection_type = NULL,
  segment_select = NULL,
  segment_exclude = NULL,
  strata_exclude = NULL,
  subgroup = NULL,
  resp_vars = character(0),
  id_vars = NULL,
  advanced_options = list(),
  html_table_backend = getOption("dataquieR.html_table_backend",
    dataquieR.html_table_backend_default),
  storr_factory = NULL,
  amend = FALSE,
  checkpoint_resumed = getOption("dataquieR.resume_checkpoint",
    dataquieR.resume_checkpoint_default),
  ...,
  output_dir = NULL,
  input_dir = NULL,
  also_print = FALSE,
  force_overwrite = FALSE,
  disable_plotly = FALSE,
  view = TRUE,
  meta_data = item_level,
  cross_item_level,
  `cross-item_level`,
  segment_level,
```

```
  dataframe_level,
  item_computation_level,
  author = prep_get_user_name(),
  title = "Data quality report Bundle",
  subtitle = as.character(Sys.Date()),
  user_info = NULL,
  dir = NULL
)
```

Arguments

`study_data` data.frame the data frame that contains the measurements

`item_level` data.frame the data frame that contains metadata attributes of study data

`meta_data_segment` data.frame – optional: Segment level metadata

`meta_data_dataframe` data.frame the data frame that contains the metadata for the data frame level

`meta_data_cross_item` data.frame – optional: Cross-item level metadata

`meta_data_item_computation` data.frame – optional: Computed items metadata

`missing_tables` character the name of the data frame containing the missing codes, it can be a vector if more than one table is provided. Example: `c("missing_table1", "missing_table2")`. Use this when `item_level` metadata are provided separately from the workbook that contains the referenced code or missing list sheets. If a complete `meta_data_v2` workbook is loaded, item-level references in columns such as `CODE_LIST_TABLE` or `MISSING_LIST_TABLE` may use the sheet name only, e.g., `"tab1"`. If only the item-level metadata are supplied, the referenced table must already be present in the data-frame cache under the exact name used in the metadata. For tables loaded from a workbook, this can be the fully qualified workbook/sheet name, e.g., `"meta_data_v2.xlsx|tab1"`, and that same name should be listed in `missing_tables`.

`label_col` variable attribute the name of the column in the metadata with labels of variables

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`segment_column` variable attribute name of a metadata attribute usable to split the report in sections of variables, e.g. all blood-pressure related variables. By default, reports are split by STUDY_SEGMENT if available and no segment_column nor strata_column or subgroup are defined. To create an un-split report please write explicitly the argument 'segment_column = NULL'

`strata_column` variable name of a study variable to stratify the report by, e.g. the study centers. Both labels and `VAR_NAMES` are accepted. In case of NAs in the selected variable, a separate report containing the NAs subset will be created

`strata_select` character if given, the strata of strata_column are limited to the content of this vector. A character vector or a regular expression can be provided (e.g., "^a.*$"). This argument can not be used if no strata_column is provided

selection_type character optional, can only be specified if a strata_select or strata_exclude is specified. If not present the function try to guess what the user typed as strata_select or strata_exclude. There are 3 options: value indicating that the stratum selected is a value and not a value_label. For example "0"; v_label indicating that the stratum specified is a label. For example "male". regex indicating that the user specified strata using a regular expression. For example "^Ber" to select all strata starting with that letters

segment_select character if given, the levels of segment_column are limited to the content of this vector. A character vector or a regular expression (e.g., ".*_EXAM$") can be provided. This argument can not be used if no segment_column is provided.

segment_exclude character optional, can only be specified if a segment_column is specified. The levels of segment_column will not include the content of this argument. A character vector or a regular expression can be provided (e.g., "^STU").

strata_exclude character optional, can only be specified if a strata_column is specified. The strata of strata_column will not include the content of this argument. A character vector or a regular expression can be provided (e.g., "^STU").

subgroup character optional, to define subgroups of cases. Rules are to be written as REDCap rules. Only VAR_NAMES are accepted in the rules.

resp_vars variable the names of the measurement variables, if missing or NULL, all variables will be checked

id_vars variable a vector containing the name/s of the variables containing ids, to be used to merge multiple data frames if provided in study_data and to be add to referred vars

advanced_options list options to set during report computation, see options()

html_table_backend character HTML table backend to use when also_print is TRUE. One of "auto", "DT2", or "DT".

storr_factory function NULL, or a function returning a storr object as back-end for the report's results. If used with cores > 1, the storage must be accessible from all cores and capable of concurrent writing according to storr. Hint: dataquieR currently only supports storr::storr_rds(), officially, while other back- ends may nevertheless work, yet, they are not tested.

amend logical if there is already data in.storr_factory, use it anyways – unsupported, so far!

checkpoint_resumed logical if using a storr_factory and the back- end there is already filled, and if amend is missing or set to TRUE, compute all missing result and add them to the back-end.

... arguments to be passed through to dq_report or dq_report2, including cores. In RStudio, avoid passing a caller-created cluster such as cores = cl; this can hang during HTML report finalization while thumbnail and embedded HTML files are written. Prefer passing a number, e.g., cores = 4, or a backend list, e.g., cores = list(mode = "socket", cpus = 4), so dataquieR can create and stop the cluster itself. Alternatively run the same command outside RStudio

(on Windows start R from the Start menu, on macOS open Terminal and run R, on Linux run R in a terminal). To force a caller-owned cluster in RStudio, set `options(dataquieR.force_rstudio_user_cluster = TRUE)` or pass `advanced_options = list(dataquieR.force_rstudio_user_cluster = TRUE)`.

`output_dir` character if given, the report objects are written to this directory and are not retained in RAM.

`input_dir` character if given, the study data files that have no path and that are not URL are searched in this directory. Also `meta_data_v2` is searched in this directory if no path is provided

`also_print` logical if `output_dir` is not `NULL`, also create `HTML` output for each report using `print.dataquieR_resultset2()` written to the path `output_dir`

`force_overwrite` logical force to overwrite `output_dir`, even if it exists

`disable_plotly` logical do not use `plotly`, even if installed

`view` logical open the returned report

`meta_data` data.frame old name for `item_level`

`cross_item_level` data.frame alias for `meta_data_cross_item`

`‘cross-item_level‘` data.frame alias for `meta_data_cross_item`

`segment_level` data.frame alias for `meta_data_segment`

`dataframe_level` data.frame alias for `meta_data_dataframe`

`item_computation_level` data.frame alias for `meta_data_item_computation`

`author` character author for the report bundle's documents.

`title` character optional argument to specify the title for the data quality report bundle

`subtitle` character optional argument to specify a subtitle for the data quality report bundle

`user_info` list additional info stored with the report bundle, e.g., comments, title, ...

`dir` character alias for `output_dir`.

Details

`dq_report_by()` accepts the canonical study data and metadata arguments used by the indicator functions. In addition, report inputs can be given as file paths, vectors of file paths, cached example-data names, or via the data-frame level metadata. File names without a path are resolved relative to `input_dir`, if provided.

The returned `dataquieR_report_by` bundle is printable. Without an output directory it contains the computed reports in memory. With `output_dir` or `dir`, reports are flushed to `.dq2` files and removed from the returned object. Such a disk-backed bundle remains printable only while that directory and its files are readable. Use `print(result)` to render its collection overview, or provide `also_print = TRUE` during computation.

Value

A printable dataquieR_report_by named list. Without an output directory its leaves are dq_report2 reports. With an output directory its leaves are lightweight placeholders and the report data remain in the referenced .dq2 files. The result is returned invisibly unless view = TRUE.

See Also

dq_report

Examples

```
## Not run:
# really long-running example.
prep_load_workbook_like_file("meta_data_v2")
rep <- dq_report_by("study_data",
  label_col =
    LABEL, strata_column = "CENTER_0"
)
rep <- dq_report_by("study_data",
  label_col = LABEL, strata_column = "CENTER_0",
  segment_column = NULL
)
unlink("/tmp/testRep/", force = TRUE, recursive = TRUE)
dq_report_by("study_data",
  label_col = LABEL, strata_column = "CENTER_0",
  segment_column = STUDY_SEGMENT, output_dir = "/tmp/testRep"
)
unlink("/tmp/testRep/", force = TRUE, recursive = TRUE)
dq_report_by("study_data",
  label_col = LABEL, strata_column = "CENTER_0",
  segment_column = NULL, output_dir = "/tmp/testRep"
)
dq_report_by("study_data",
  label_col = LABEL,
  segment_column = STUDY_SEGMENT, output_dir = "/tmp/testRep"
)
dq_report_by("study_data",
  label_col = LABEL,
  segment_column = STUDY_SEGMENT, output_dir = "/tmp/testRep",
  also_print = TRUE
)
dq_report_by(
  study_data = "study_data", meta_data_v2 = "meta_data_v2",
  advanced_options = list(
    dataquieR.study_data_cache_max = 0,
    dataquieR.study_data_cache_metrics = TRUE,
    dataquieR.study_data_cache_metrics_env = environment()
  ),
  cores = NULL, dimensions = "int"
)
dq_report_by(
  study_data = "study_data", meta_data_v2 = "meta_data_v2",
```

```
  advanced_options = list(dataquieR.study_data_cache_max = 0),
  cores = NULL, dimensions = "int"
)

## End(Not run)
```

---

dq_shiny_panel_html *Build embeddable dataquieR panel HTML*

Description

This lower-level helper is useful for tests and custom Shiny modules.

Usage

```
dq_shiny_panel_html(
  result = NULL,
  report_dir = NULL,
  height = "700px",
  resource_prefix = "dataquieR-shiny-panel"
)
```

Arguments

`result`	optional computed `dataquieR_result` or `master_result` object to display.
`report_dir`	character optional directory created by `dq_report2()` or `dq_report_by()`.
`height`	character CSS height of the embedded panel.
`resource_prefix`	character Shiny static resource prefix.

Value

`htmltools` tag object.

---

dq_shiny_panel_ui *Embed dataquieR results in a Shiny application*

Description

`dq_shiny_panel_ui()` and `dq_shiny_panel_server()` provide an experimental Shiny module for showing already computed dataquieR output in an application. The first version supports either a single result object or an existing report directory. `shiny` remains an optional dependency.

Usage

```
dq_shiny_panel_ui(id, title = NULL, height = "700px")

dq_shiny_panel_server(id, result = NULL, report_dir = NULL, height = "700px")
```

Arguments

id	character module id.
title	character optional panel title.
height	character CSS height of the embedded panel.
result	optional computed dataquieR_result or master_result object to display.
report_dir	character optional directory created by dq_report2() or dq_report_by().

Value

dq_shiny_panel_ui() returns a Shiny UI tag list.

dq_shiny_panel_server() returns the Shiny module server value.

Examples

```
## Not run:
if (requireNamespace("shiny", quietly = TRUE)) {
  ui <- shiny::fluidPage(
    dq_shiny_panel_ui("dq", title = "Data quality")
  )
  server <- function(input, output, session) {
    dq_shiny_panel_server("dq", report_dir = "my_report")
  }
  shiny::shinyApp(ui, server)
}

## End(Not run)
```

---

droplevels.ReportSummaryTable

Remove unused levels from ReportSummaryTable

Description

Remove unused levels from ReportSummaryTable

Usage

```
## S3 method for class 'ReportSummaryTable'
droplevels(x, ...)
```

Arguments

x	ReportSummaryTable an object from which to drop unused factor levels.
...	no used.

Value

ReportSummaryTable with all (NA or 0)-columns removed

---

ggplotGrob.dq_lazy_ggplot

S3/S7 methods for lazy ggplot objects

Description

These S3/S7 methods make dq_lazy_ggplot/dq_lazy_ggplot_s7 objects work smoothly with functions from **ggplot2** and **plotly**. They simply materialize the underlying ggplot object and then delegate to the respective generic.

Usage

```
ggplotGrob.dq_lazy_ggplot(x, ...)

ggplotly.dq_lazy_ggplot_s7(p, ...)

plotly_build.dq_lazy_ggplot_s7(p, ...)

ggplotly.dq_lazy_ggplot(p, ...)

plotly_build.dq_lazy_ggplot(p, ...)

ggplotGrob.dq_lazy_ggplot_s7(x, ...)
```

Arguments

x, p	A dq_lazy_ggplot object.
...	Further arguments passed on to the underlying generic.

Value

The return value is the same as for the corresponding generic:

- ggplotGrob() returns a gtable object.
- ggplotly() returns a plotly object.
- plotly_build() returns a plotly_proxy or similar.

See Also

ggplotGrob, plotly::ggplotly plotly::plotly_build

grid.draw.util_pairs_ggplot_panels

grid.draw method for util_pairs_ggplot_panels objects

Description

grid.draw method for util_pairs_ggplot_panels objects

Usage

```
## S3 method for class 'util_pairs_ggplot_panels'
grid.draw(x, ...)
```

Arguments

x	An object of class util_pairs_ggplot_panels.
...	Ignored.

html_dependency_clipboard

HTML Dependency for report headers in clipboard

Description

HTML Dependency for report headers in clipboard

Usage

```
html_dependency_clipboard()
```

Value

the dependency

html_dependency_dataquieR *HTML Dependency for* dataquieR

Description

generate all dependencies used in static dataquieR reports

Usage

```
html_dependency_dataquieR(iframe = FALSE)
```

Arguments

iframe	logical(1) if TRUE, create the dependency used in figure iframes.

Value

the dependency

html_dependency_jspdf *HTML dependency for* jsPDF

Description

Provides jsPDF for use in Shiny or RMarkdown via htmltools.

Usage

```
html_dependency_jspdf()
```

Value

An htmltools::htmlDependency() object

html_dependency_tippy *HTML Dependency for* tippy

Description

HTML Dependency for tippy

Usage

```
html_dependency_tippy()
```

Value

the dependency

int_all_datastructure_dataframe *Wrapper function to check for studies data structure*

Description

This function tests for unexpected elements and records, as well as duplicated identifiers and content. The unexpected element record check can be conducted by providing the number of expected records or an additional table with the expected records. It is possible to conduct the checks by study segments or to consider only selected segments.

Indicator

Usage

```
int_all_datastructure_dataframe(
  meta_data_dataframe = "dataframe_level",
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  dataframe_level
)
```

Arguments

meta_data_dataframe	data.frame the data frame that contains the metadata for the data frame level
item_level	data.frame the data frame that contains metadata attributes of study data
meta_data	data.frame old name for item_level

meta_data_v2 character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

dataframe_level data.frame alias for meta_data_dataframe

Value

a list with

- DataframeTable: data frame with selected check results, used for the data quality report.

Examples

```
## Not run:
out_dataframe <- int_all_datastructure_dataframe(
  meta_data_dataframe = "meta_data_dataframe",
  meta_data = "ship_meta"
)
md0 <- prep_get_data_frame("ship_meta")
md0
md0[[VAR_NAMES]]
md0[[VAR_NAMES]][[1]] <- "Id" # is this missmatch reported -- is the data frame
# also reported, if nothing is wrong with it
out_dataframe <- int_all_datastructure_dataframe(
  meta_data_dataframe = "meta_data_dataframe",
  meta_data = md0
)

# This is the "normal" procedure for inside pipeline
# but outside this function  checktype is exact by default
options(dataquieR.ELEMENT_MISSMATCH_CHECKTYPE = "subset_u")
lapply(setNames(nm = prep_get_data_frame("meta_data_dataframe")$DF_NAME),
  int_sts_element_dataframe,
  meta_data = md0
)
md0[[VAR_NAMES]][[1]] <-
  "id" # is this missmatch reported -- is the data frame also reported,
# if nothing is wrong with it
lapply(setNames(nm = prep_get_data_frame("meta_data_dataframe")$DF_NAME),
  int_sts_element_dataframe,
  meta_data = md0
)
options(dataquieR.ELEMENT_MISSMATCH_CHECKTYPE = "exact")

## End(Not run)
```

int_all_datastructure_segment

Wrapper function to check for segment data structure

Description

This function tests for unexpected elements and records, as well as duplicated identifiers and content. The unexpected element record check can be conducted by providing the number of expected records or an additional table with the expected records. It is possible to conduct the checks by study segments or to consider only selected segments.

Indicator

Usage

```
int_all_datastructure_segment(
  study_data,
  label_col,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  segment_level,
  meta_data_segment = "segment_level"
)
```

Arguments

study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
segment_level	data.frame alias for meta_data_segment
meta_data_segment	data.frame the data frame that contains the metadata for the segment level, mandatory

Value

a list with

- SegmentTable: data frame with selected check results, used for the data quality report.

Examples

```
## Not run:
out_segment <- int_all_datastructure_segment(
  meta_data_segment = "meta_data_segment",
  study_data = "ship",
  meta_data = "ship_meta"
)

study_data <- cars
meta_data <- dataquieR::prep_create_meta(
  VAR_NAMES = c("speedx", "distx"),
  DATA_TYPE = c("integer", "integer"), MISSING_LIST = "|", JUMP_LIST = "|",
  STUDY_SEGMENT = c("Intro", "Ex")
)

out_segment <- int_all_datastructure_segment(
  meta_data_segment = "meta_data_segment",
  study_data = study_data,
  meta_data = meta_data
)

## End(Not run)
```

`int_datatype_matrix` *Check declared data types of metadata in study data*

Description

Checks data types of the study data and for the data type declared in the metadata

Indicator

Usage

```
int_datatype_matrix(
  resp_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  split_segments = FALSE,
  max_vars_per_plot = 20,
  threshold_value = 0,
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
split_segments	logical return one matrix per study segment
max_vars_per_plot	integer from=0. The maximum number of variables per single plot.
threshold_value	numeric from=0 to=100. percentage failing conversions allowed to still classify a study variable convertible.
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Details

This is a preparatory support function that compares study data with associated metadata. A prerequisite of this function is that the no. of columns in the study data complies with the no. of rows in the metadata.

For each study variable, the function searches for its data type declared in static metadata and returns a heatmap like matrix indicating data type mismatches in the study data.

List function.

Value

a list with:

- SummaryTable: data frame containing data quality check for "data type mismatch" (CLS_int_vfe_type, PCT_int_vfe_type). The following categories are possible: categories: "Non-matching datatype", "Non-Matching datatype, convertible", "Matching datatype"
- SummaryData: data frame containing data quality check for "data type mismatch" for a report
- SummaryPlot: ggplot2::ggplot2 heatmap plot, graphical representation of SummaryTable
- DataTypePlotList: list of plots per (maybe artificial) segment
- ReportSummaryTable: data frame underlying SummaryPlot

int_duplicate_content *Check for duplicated content*

Description

This function tests for duplicates entries in the data set. It is possible to check duplicated entries by study segments or to consider only selected segments.

Indicator

Usage

```
int_duplicate_content(
  level = c("dataframe", "segment"),
  study_data,
  item_level = "item_level",
  label_col,
  meta_data = item_level,
  meta_data_v2,
  ...
)
```

Arguments

`level`	character a character vector indicating whether the assessment should be conducted at the study level (level = "dataframe") or at the segment level (level = "segment").
`study_data`	data.frame the data frame that contains the measurements
`item_level`	data.frame the data frame that contains metadata attributes of study data
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`...`	Depending on `level`, passed to either `util_int_duplicate_content_segment` or `util_int_duplicate_content_dataframe`

Value

a list. Depending on `level`, see `util_int_duplicate_content_segment` or `util_int_duplicate_content_dataframe` for a description of the outputs.

int_duplicate_ids *Check for duplicated IDs*

Description

This function tests for duplicates entries in identifiers. It is possible to check duplicated identifiers by study segments or to consider only selected segments.

Indicator

Usage

```
int_duplicate_ids(
  level = c("dataframe", "segment"),
  study_data,
  item_level = "item_level",
  label_col,
  meta_data = item_level,
  meta_data_v2,
  ...
)
```

Arguments

`level`	character a character vector indicating whether the assessment should be conducted at the study level (level = "dataframe") or at the segment level (level = "segment").
`study_data`	data.frame the data frame that contains the measurements
`item_level`	data.frame the data frame that contains metadata attributes of study data
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`...`	Depending on `level`, passed to either `util_int_duplicate_ids_segment` or `util_int_duplicate_ids_dataframe`

Value

a list. Depending on `level`, see `util_int_duplicate_ids_segment` or `util_int_duplicate_ids_dataframe` for a description of the outputs.

int_encoding_errors *Encoding Errors*

Description

Detects errors in the character encoding of string variables

Indicator

Usage

```
int_encoding_errors(
  resp_vars = NULL,
  study_data,
  label_col,
  meta_data_dataframe = "dataframe_level",
  item_level = "item_level",
  ref_encs,
  meta_data = item_level,
  meta_data_v2,
  dataframe_level
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
meta_data_dataframe	data.frame the data frame that contains the metadata for the data frame level
item_level	data.frame the data frame that contains metadata attributes of study data
ref_encs	reference encodings (names are resp_vars)
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
dataframe_level	data.frame alias for meta_data_dataframe

Details

Strings are stored based on code tables, nowadays, typically as UTF-8. However, other code systems are still in use, so, sometimes, strings from different systems are mixed in the data. This indicator checks for such problems and returns the count of entries per variable, that do not match

the reference coding system, which is estimated from the study data (addition of metadata field is planned).

If not specified in the metadata (columns ENCODING in item- or data-frame- level, the encoding is guessed from the data). Otherwise, it may be any supported encoding as returned by iconvlist().

Value

a list with:

- SummaryTable: data.frame with information on such problems
- SummaryData: data.frame human readable version of SummaryTable
- FlaggedStudyData: data.frame tells for each entry in study data if its encoding is OK. has the same dimensions as study_data

---

int_invalid_syntax *Check structured text data for syntax errors*

Description

This function checks syntax for entries whose EXTENDED_DATA_TYPE is JSON, YAML, or XML, using the corresponding format parser.

Indicator

Usage

```
int_invalid_syntax(
  resp_vars,
  study_data,
  label_col = NULL,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Details

[Experimental]

Value

A list with:

- `SummaryTable`: a data.frame containing data quality checks for "Invalid syntax rate" for each response variable in `resp_vars`.
- `SummaryData`: a data.frame containing data quality checks for "Invalid syntax rate" for a report

---

int_part_vars_structure

Detect Expected Observations

Description

For each participant, check, if an observation was expected, given the `PART_VARS` from item-level metadata

Usage

```
int_part_vars_structure(
  label_col,
  study_data,
  item_level = "item_level",
  expected_observations = c("HIERARCHY", "SEGMENT"),
  disclose_problem_paprt_var_data = FALSE,
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

`label_col` character mapping attribute `colnames(study_data)` vs. `meta_data[label_col]`

`study_data` study_data must have all relevant `PART_VARS` to avoid false-positives on `PART_VARS` missing from `study_data`

`item_level` meta_data must be complete to avoid false positives on non-existing `PART_VARS`

`expected_observations`
enum HIERARCHY | SEGMENT. How should `PART_VARS` be handled:

- `SEGMENT`: if `PART_VAR` is 1, an observation is expected
- `HIERARCHY`: the default, if the `PART_VAR` is 1 for this variable and also for all `PART_VARS` of `PART_VARS` up in the hierarchy, an observation is expected.

`disclose_problem_paprt_var_data`
logical show the problematic data (`PART_VAR` only)

meta_data — data.frame old name for `item_level`

meta_data_v2 — character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Details

Descriptor

Value

empty list, so far – the function only warns.

`int_sts_element_dataframe`

Determine missing and/or superfluous data elements

Description

Depends on dataquieR.ELEMENT_MISSMATCH_CHECKTYPE option, see there

Usage

```
int_sts_element_dataframe(
  item_level = "item_level",
  meta_data_dataframe = "dataframe_level",
  meta_data = item_level,
  meta_data_v2,
  check_type = getOption("dataquieR.ELEMENT_MISSMATCH_CHECKTYPE",
    dataquieR.ELEMENT_MISSMATCH_CHECKTYPE_default),
  dataframe_level
)
```

Arguments

item_level — data.frame the data frame that contains metadata attributes of study data

meta_data_dataframe — data.frame the data frame that contains the metadata for the data frame level

meta_data — data.frame old name for `item_level`

meta_data_v2 — character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

check_type — enum none | exact | subset_u | subset_m. See dataquieR.ELEMENT_MISSMATCH_CHECKTYPE

dataframe_level — data.frame alias for `meta_data_dataframe`

Details

Indicator

Value

list with names lots:

- DataframeData: data frame with the unexpected elements check results.
- DataframeTable: data.frame table with all errors, used for the data quality report: - PCT_int_sts_element: Percentage of element mismatches - NUM_int_sts_element: Number of element mismatches - resp_vars: affected element names

Examples

```
## Not run:
prep_load_workbook_like_file("~/tmp/df_level_test.xlsx")
meta_data_dataframe <- "dataframe_level"
meta_data <- "item_level"

## End(Not run)
```

---

int_sts_element_segment

Checks for element set

Description

Depends on dataquieR.ELEMENT_MISSMATCH_CHECKTYPE option,

Usage

```
int_sts_element_segment(
  study_data,
  item_level = "item_level",
  label_col,
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

study_data	data.frame the data frame that contains the measurements
item_level	data.frame the data frame that contains metadata attributes of study data
label_col	variable attribute the name of the column in the metadata with labels of variables
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Details

Indicator

Value

a list with

- SegmentData: data frame with the unexpected elements check results. - Segment: name of the corresponding segment, if applicable, ALL otherwise
- SegmentTable: data frame with the unexpected elements check results, used for the data quality report. - Segment: name of the corresponding segment, if applicable, ALL otherwise

Examples

```
## Not run:
study_data <- cars
meta_data <- dataquieR::prep_create_meta(
  VAR_NAMES = c("speedx", "distx"),
  DATA_TYPE = c("integer", "integer"), MISSING_LIST = "|", JUMP_LIST = "|",
  STUDY_SEGMENT = c("Intro", "Ex")
)
options(dataquieR.ELEMENT_MISSMATCH_CHECKTYPE = "none")
int_sts_element_segment(study_data, meta_data)
options(dataquieR.ELEMENT_MISSMATCH_CHECKTYPE = "exact")
int_sts_element_segment(study_data, meta_data)
study_data <- cars
meta_data <- dataquieR::prep_create_meta(
  VAR_NAMES = c("speedx", "distx"),
  DATA_TYPE = c("integer", "integer"), MISSING_LIST = "|", JUMP_LIST = "|",
  STUDY_SEGMENT = c("Intro", "Intro")
)
options(dataquieR.ELEMENT_MISSMATCH_CHECKTYPE = "none")
int_sts_element_segment(study_data, meta_data)
options(dataquieR.ELEMENT_MISSMATCH_CHECKTYPE = "exact")
int_sts_element_segment(study_data, meta_data)
study_data <- cars
meta_data <- dataquieR::prep_create_meta(
  VAR_NAMES = c("speed", "distx"),
  DATA_TYPE = c("integer", "integer"), MISSING_LIST = "|", JUMP_LIST = "|",
  STUDY_SEGMENT = c("Intro", "Intro")
)
options(dataquieR.ELEMENT_MISSMATCH_CHECKTYPE = "none")
int_sts_element_segment(study_data, meta_data)
options(dataquieR.ELEMENT_MISSMATCH_CHECKTYPE = "exact")
int_sts_element_segment(study_data, meta_data)

## End(Not run)
```

int_unexp_elements *Check for unexpected data element count*

Description

This function contrasts the expected element number in each study in the metadata with the actual element number in each study data frame.

Indicator

Usage

```
int_unexp_elements(
  identifier_name_list,
  data_element_count,
  meta_data_dataframe = "dataframe_level",
  meta_data_v2,
  dataframe_level
)
```

Arguments

`identifier_name_list`
: character a character vector indicating the name of each study data frame, mandatory.

`data_element_count`
: integer an integer vector with the number of expected data elements, mandatory.

`meta_data_dataframe`
: data.frame the data frame that contains the metadata for the data frame level

`meta_data_v2`
: character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`dataframe_level`
: data.frame alias for `meta_data_dataframe`

Value

a list with

- `DataframeData`: data frame with the results of the quality check for unexpected data elements
- `DataframeTable`: data frame with selected unexpected data elements check results, used for the data quality report.

int_unexp_records_dataframe

Check for unexpected data record count at the data frame level

Description

This function contrasts the expected record number in each study in the metadata with the actual record number in each study data frame.

Indicator

Usage

```
int_unexp_records_dataframe(
  identifier_name_list,
  data_record_count,
  meta_data_dataframe = "dataframe_level",
  meta_data_v2,
  dataframe_level
)
```

Arguments

`identifier_name_list`
: character a character vector indicating the name of each study data frame, mandatory.

`data_record_count`
: integer an integer vector with the number of expected data records per study data frame, mandatory.

`meta_data_dataframe`
: data.frame the data frame that contains the metadata for the data frame level

`meta_data_v2`
: character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`dataframe_level`
: data.frame alias for `meta_data_dataframe`

Value

a list with

- `DataframeData`: data frame with the results of the quality check for unexpected data elements
- `DataframeTable`: data frame with selected unexpected data elements check results, used for the data quality report.

int_unexp_records_segment

Check for unexpected data record count within segments

Description

This function contrasts the expected record number in each study segment in the metadata with the actual record number in each segment data frame.

Indicator

Usage

```
int_unexp_records_segment(
  study_segment,
  study_data,
  label_col,
  item_level = "item_level",
  data_record_count,
  meta_data = item_level,
  meta_data_segment = "segment_level",
  meta_data_v2,
  segment_level
)
```

Arguments

study_segment	character a character vector indicating the name of each study data frame, mandatory.
study_data	data.frame the data frame that contains the measurements
label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
data_record_count	integer an integer vector with the number of expected data records, mandatory.
meta_data	data.frame old name for item_level
meta_data_segment	data.frame – optional: Segment level metadata
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
segment_level	data.frame alias for meta_data_segment

Details

The current implementation does not take into account jump or missing codes, the function is rather based on checking whether NAs are present in the study data

Value

a list with

- SegmentData: data frame with the results of the quality check for unexpected data elements
- SegmentTable: data frame with selected unexpected data elements check results, used for the data quality report.

---

int_unexp_records_set *Check for unexpected data record set*

Description

This function tests that the identifiers match a provided record set. It is possible to check for unexpected data record sets by study segments or to consider only selected segments.

Indicator

Usage

```
int_unexp_records_set(
  level = c("dataframe", "segment"),
  study_data,
  item_level = "item_level",
  label_col,
  meta_data = item_level,
  meta_data_v2,
  ...
)
```

Arguments

level	character a character vector indicating whether the assessment should be conducted at the study level (level = "dataframe") or at the segment level (level = "segment").
study_data	data.frame the data frame that contains the measurements
item_level	data.frame the data frame that contains metadata attributes of study data
label_col	variable attribute the name of the column in the metadata with labels of variables
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
...	Depending on level, passed to either util_int_unexp_records_set_segment or util_int_unexp_records_set_dataframe

Value

a list. Depending on level, see util_int_unexp_records_set_segment or util_int_unexp_records_set_dataframe for a description of the outputs.

IRV — *Cross-item level metadata attribute name*

Description

Cross-item metadata attribute name.

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

Other SSI: COMPUTED_VARIABLE_ROLES, MAHALANOBIS_RATIO, MAXIMUM_LONG_STRING, MISS_RESP, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, RESPT_PER_ITEM, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT

MAHALANOBIS_RATIO — *Cross-item level metadata attribute name*

Description

Cross-item metadata attribute name.

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

Other SSI: COMPUTED_VARIABLE_ROLES, IRV, MAXIMUM_LONG_STRING, MISS_RESP, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, RESPT_PER_ITEM, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT

MAHALANOBIS_THRESHOLD *Cross-item level metadata attribute name*

Description

Select, whether to compute acc_mahalanobis.

Usage

```
MAHALANOBIS_THRESHOLD
```

Details

You can leave the cell empty, then the depends on the setting of the `option` dataquieR.MULTIVARIATE_OUTLIER_CHECK If this column is missing, all this is the same as having all cells empty and `dataquieR.MULTIVARIATE_OUTLIER_CHECK` set to `"auto"`.

See also `MULTIVARIATE_OUTLIER_CHECKTYPE`.

See Also

meta_data_cross_item

Other meta_data_cross_item: `ASSOCIATION_DIRECTION`, `ASSOCIATION_FORM`, `ASSOCIATION_METRIC`, `ASSOCIATION_RANGE`, `CHECK_ID`, `CHECK_LABEL`, `COMPUTED_VARIABLE_ROLES`, `CONTRADICTION_TERM`, `CONTRADICTION_TYPE`, `DATA_PREPARATION`, `IRV`, `MAHALANOBIS_RATIO`, `MAXIMUM_LONG_STRING`, `MISS_RESP`, `MULTIVARIATE_OUTLIER_CHECK`, `MULTIVARIATE_OUTLIER_CHECKTYPE`, `PSYCHOMETRIC_ANT`, `PSYCHOMETRIC_SYN`, `RELCOMPL_SPEED`, `REPEATED_MEASURES_METRIC`, `REPEATED_MEASURES_METRIC_SETTING`, `REPEATED_MEASURES_REFERENCE`, `RESPT_PER_ITEM`, `SCALE_ACRONYM`, `SCALE_NAME`, `SUM_ATTENTION_CHECK_ITEMS`, `TOTRESPT`, `VARIABLE_LIST`, `VARIABLE_LIST_ORDER`, `meta_data_computation`, `meta_data_cross_item`

MAXIMUM_LONG_STRING *Cross-item level metadata attribute name*

Description

Cross-item metadata attribute name.

See Also

meta_data_cross_item

Other meta_data_cross_item: `ASSOCIATION_DIRECTION`, `ASSOCIATION_FORM`, `ASSOCIATION_METRIC`, `ASSOCIATION_RANGE`, `CHECK_ID`, `CHECK_LABEL`, `COMPUTED_VARIABLE_ROLES`, `CONTRADICTION_TERM`, `CONTRADICTION_TYPE`, `DATA_PREPARATION`, `IRV`, `MAHALANOBIS_RATIO`, `MAHALANOBIS_THRESHOLD`, `MISS_RESP`, `MULTIVARIATE_OUTLIER_CHECK`, `MULTIVARIATE_OUTLIER_CHECKTYPE`, `PSYCHOMETRIC_ANT`, `PSYCHOMETRIC_SYN`, `RELCOMPL_SPEED`, `REPEATED_MEASURES_METRIC`, `REPEATED_MEASURES_METRIC_SETTING`,

REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

Other SSI: COMPUTED_VARIABLE_ROLES, IRV, MAHALANOBIS_RATIO, MISS_RESP, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, RESPT_PER_ITEM, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT

---

meta_data *Data frame with metadata about the study data on variable level*

Description

Variable level metadata.

See Also

further details on variable level metadata.

meta_data_segment

meta_data_dataframe

---

meta_data_computation *Well known columns on the* item_computation_level *sheet*

Description

Computation rules

See Also

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_S
REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_cross_item

meta_data_cross_item *Well known columns on the* cross-item_level *sheet*

Description

Metadata describing groups of variables, e.g., for their multivariate distribution or for defining contradiction rules.

See Also

check_table

Online Documentation

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_S REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation

meta_data_dataframe *Well known columns on the* meta_data_dataframe *sheet*

Description

Metadata describing data delivered on one data frame/table sheet, e.g., a full questionnaire, not its items.

meta_data_segment *Well known columns on the* meta_data_segment *sheet*

Description

Metadata describing study segments, e.g., a full questionnaire, not its items.

MISSING_CODE_RULES *Name of the sheet with rules to introduce missing codes in the pipeline*

Description

Name of the sheet with rules to introduce missing codes in the pipeline

Usage

```
MISSING_CODE_RULES
```

MISS_RESP *Cross-item level metadata attribute name*

Description

Cross-item metadata attribute name.

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

Other SSI: COMPUTED_VARIABLE_ROLES, IRV, MAHALANOBIS_RATIO, MAXIMUM_LONG_STRING, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, RESPT_PER_ITEM, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT

MULTIVARIATE_OUTLIER_CHECK *Cross-item level metadata attribute name*

Description

Select, whether to compute acc_multivariate_outlier.

Usage

```
MULTIVARIATE_OUTLIER_CHECK
```

Details

You can leave the cell empty, then the depends on the setting of the `option` dataquieR.MULTIVARIATE_OUTLIER_CHECK If this column is missing, all this is the same as having all cells empty and `dataquieR.MULTIVARIATE_OUTLIER_CHECK` set to `"auto"`.

See also MULTIVARIATE_OUTLIER_CHECKTYPE.

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

---

MULTIVARIATE_OUTLIER_CHECKTYPE

Cross-item level metadata attribute name

Description

Select, which outlier criteria to compute, see acc_multivariate_outlier.

Usage

```
MULTIVARIATE_OUTLIER_CHECKTYPE
```

Details

You can leave the cell empty, then, all checks will apply. If you enter a set of methods, the maximum for N_RULES changes. See also UNIVARIATE_OUTLIER_CHECKTYPE.

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

names<-.dataquieR_translated

names implementation for the class dataquieR_translated

Description

dataquieR's translated texts featuring access to the language keys, still. this function returns the language keys.

Usage

```
## S3 replacement method for class 'dataquieR_translated'
names(x) <- value
```

Arguments

x	dataquieR_translated object
value	the names to assign

Details

only setNames(nm = x) is allowed for convenience. Any other assignment would mean to change the language keys, so this is not allowed.

Value

names of the underlying character vector

See Also

base::as.character

nres

return the number of result slots in a report

Description

return the number of result slots in a report

Usage

```
nres(x)
```

Arguments

x	the dataquieR report (v2.0)

Value

the number of used result slots

---

numeric_with_unit-operators

Arithmetic operators for numbers with units

Description

These methods preserve compatible units and reject incompatible operations.

Usage

```
## S3 method for class 'numeric_with_unit'
e1 * e2

## S3 method for class 'numeric_with_unit'
e1 + e2

## S3 method for class 'numeric_with_unit'
e1 - e2

## S3 method for class 'numeric_with_unit'
e1 / e2

## S3 method for class 'numeric_with_unit'
e1 %% e2

## S3 method for class 'numeric_with_unit'
e1 %/% e2

## S3 method for class 'numeric_with_unit'
e1 ^ e2
```

Arguments

e1	First operand.
e2	Second operand.

Value

Numeric result with a compatible unit where applicable.

pipeline_recursive_result

Convert a pipeline result data frame to named encapsulated lists

Description

Deprecated

Usage

```
pipeline_recursive_result(...)
```

Arguments

...	Deprecated

Value

Deprecated

pipeline_vectorized

Call (nearly) one "Accuracy" function with many parameterizations at once automatically

Description

Deprecated

Usage

```
pipeline_vectorized(...)
```

Arguments

...	Deprecated

Value

Deprecated

plot.dataquieR_summary

Plot a dataquieR *summary*

Description

Plot a dataquieR summary

Usage

```
## S3 method for class 'dataquieR_summary'
plot(
  x,
  y,
  ...,
  filter,
  dont_plot = FALSE,
  stratify_by,
  vars_to_include = "study",
  disable_plotly = FALSE,
  hierarchy,
  folder_of_report = NULL,
  var_uniquenames = NULL,
  summary_title = NULL,
  summary_subtitle = NULL,
  summary_unit_label = NULL
)
```

Arguments

x	the dataquieR summary, see summary() and dq_report2()
y	not yet used
...	not yet used
filter	if given, this filters the summary, e.g., filter = call_names == "com_qualified_item_missingness"
dont_plot	suppress the actual plotting, just return a printable object derived from x
stratify_by	column to stratify the summary, may be one string.
vars_to_include	character "study", "ssi", or "variable_group". The latter includes all results emitted as variable group tables, including non-scale assessments.
disable_plotly	logical do not use plotly, even if installed
hierarchy	not yet defined, but if an argument is given, a sunburst chart is displayed, currently, only DQ_OBS can be used a the hierarchy.
folder_of_report	a named vector with the location of variable and call_names

var_uniquenames
: a data frame with the original variable names and the unique names in case of reports created with dq_report_by containing the same variable in several reports (e.g., creation of reports by sex)

summary_title
: optional scalar title for the summary chart. The default is derived from the displayed assessment units.

summary_subtitle
: optional scalar subtitle for the summary chart.

summary_unit_label
: optional plural label for counted chart units.

Value

invisible html object

---

prep_acc_distributions_with_ecdf *Utility function to plot a combined figure for distribution checks*

Description

Data quality indicator checks "Unexpected location" with histograms and plots of empirical cumulative distributions for the subgroups.

Usage

```
prep_acc_distributions_with_ecdf(
  resp_vars = NULL,
  group_vars = NULL,
  study_data,
  label_col,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  n_group_max = getOption("dataquieR.max_group_var_levels_in_plot",
    dataquieR.max_group_var_levels_in_plot_default),
  n_obs_per_group_min = getOption("dataquieR.min_obs_per_group_var_in_plot",
    dataquieR.min_obs_per_group_var_in_plot_default)
)
```

Arguments

resp_vars
: variable the names of the measurement variables, if missing or NULL, all variables will be checked

group_vars
: variable list the names of the grouping variables

study_data
: data.frame the data frame that contains the measurements

label_col	variable attribute the name of the column in the metadata with labels of variables
item_level	data.frame the data frame that contains metadata attributes of study data
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
n_group_max	maximum number of categories to be displayed individually for the grouping variable (group_vars, devices / examiners)
n_obs_per_group_min	minimum number of data points per group to create a graph for an individual category of the group_vars variable

Value

A SummaryPlot.

---

prep_add_cause_label_df

Convert missing codes in metadata format v1.0 and a missing-cause-table to v2.0 missing list / jump list assignments

---

Description

The function has to working modes. If replace_meta_data is TRUE, by default, if cause_label_df contains a column named resp_vars, then the missing/jump codes in meta_data[, c(MISSING_CODES, JUMP_CODES)] will be overwritten, otherwise, it will be labeled using the cause_label_df.

Usage

```
prep_add_cause_label_df(
  item_level = "item_level",
  cause_label_df,
  label_col = VAR_NAMES,
  assume_consistent_codes = TRUE,
  replace_meta_data = ("resp_vars" %in% colnames(cause_label_df)),
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

item_level	data.frame the data frame that contains metadata attributes of study data
cause_label_df	data.frame missing code table. If missing codes have labels the respective data frame can be specified here, see cause_label_df
label_col	variable attribute the name of the column in the metadata with labels of variables

`assume_consistent_codes`
: logical if TRUE and no labels are given and the same missing/jump code is used for more than one variable, the labels assigned for this code will be the same for all variables.

`replace_meta_data`
: logical if `TRUE`, ignore existing missing codes and jump codes and replace them with data from the `cause_label_df`. Otherwise, copy the labels from `cause_label_df` to the existing code columns.

`meta_data`
: data.frame old name for `item_level`

`meta_data_v2`
: character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Details

If a column `resp_vars` exists, then rows with a value in `resp_vars` will only be used for the corresponding variable.

Value

data.frame updated metadata including all the code labels in missing/jump lists

See Also

prep_extract_cause_label_df

`prep_add_computed_variables`
Insert missing codes for `NA`*s based on rules*

Description

Insert missing codes for `NA`s based on rules

Usage

```
prep_add_computed_variables(
  study_data,
  meta_data,
  label_col,
  rules,
  use_value_labels
)
```

Arguments

`study_data` data.frame the data frame that contains the measurements

`meta_data` data.frame old name for `item_level`

`label_col` variable attribute the name of the column in the metadata with labels of variables

`rules` data.frame with the columns:

- `VAR_NAMES`: VAR_NAMES of the variable to compute
- `COMPUTATION_RULE`: A rule in `REDcap` style (see, e.g., `REDcap` help and `REDcap` how-to) that defines, how to compute the new values
- `FILE_PATH`: Path to a folder of structured text files (JSON/XML) for generating a variable with a file-based value
- `MERGE_ID_VAR`: ID Variable for matching structured text files to variable rows
- `ID_PATH_REGEX`: How to get an ID for matching from the file path (first regex match group).
- `ID_ENTITY_PATH`: How to find an ID for matching in the JSON/XML file. A jq program or an XPath depending on file type.

`use_value_labels` logical In rules for factors, use the value labels, not the codes. Defaults to `TRUE`, if any `VALUE_LABELS` are given in the metadata.

Value

a `list` with the entry:

- `ModifiedStudyData`: Study data with the new variables

Examples

```
## Not run:
study_data <- prep_get_data_frame("ship")
prep_load_workbook_like_file("ship_meta_v2")
meta_data <- prep_get_data_frame("item_level")
rules <- tibble::tribble(
  ~VAR_NAMES, ~COMPUTATION_RULE,
  "BMI", "[BODY_WEIGHT_0]/(([BODY_HEIGHT_0]/100)^2)",
  "R", "[WAIST_CIRC_0]/2/[pi]", # in m^3
  "VOL_EST", "[pi]*([WAIST_CIRC_0]/2/[pi])^2*[BODY_HEIGHT_0] / 1000", # in l
)
r <- prep_add_computed_variables(study_data, meta_data,
  label_col = "LABEL", rules, use_value_labels = FALSE
)

## End(Not run)
```

prep_add_data_frames *Add data frames to the pre-loaded / cache data frame environment*

Description

These can be referred to by their names, then, wherever dataquieR expects a data.frame – just pass a character instead. If this character is not found, dataquieR would additionally look for files with the name and for URLs. You can also refer to specific sheets of a workbook or specific object from an RData by appending a pipe symbol and its name. A second pipe symbol allows to extract certain columns from such sheets (but they will remain data frames).

Usage

```
prep_add_data_frames(..., data_frame_list = list(), append = FALSE)
```

Arguments

...	data frames, if passed with names, these will be the names of these tables in the data frame environment. If not, then the names in the calling environment will be used.
data_frame_list	a named list with data frames. Also these will be added and names will be handled as for the ... argument.
append	logical if a data frame already exists in the cache (by name), extend the existing one

Value

data.frame `invisible(the cache environment)`

See Also

prep_load_workbook_like_file

prep_get_data_frame

Other data-frame-cache: `prep_get_data_frame()`, `prep_list_dataframes()`, `prep_load_folder_with_metadata()`, `prep_load_workbook_like_file()`, `prep_purge_data_frame_cache()`, `prep_remove_from_cache()`

prep_add_missing_codes

Insert missing codes for NA*s based on rules*

Description

Insert missing codes for NAs based on rules

Usage

```
prep_add_missing_codes(
  resp_vars,
  study_data,
  meta_data_v2,
  item_level = "item_level",
  label_col,
  rules,
  use_value_labels = NA,
  overwrite = FALSE,
  meta_data = item_level
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
item_level	data.frame the data frame that contains metadata attributes of study data
label_col	variable attribute the name of the column in the metadata with labels of variables
rules	data.frame with the columns: • resp_vars or VAR_NAMES: Variable, whose NA-values should be replaced by jump codes • CODE_CLASS: Either MISSING or JUMP: Is the currently described case an expected missing value (JUMP) or not (MISSING) • CODE_VALUE: The jump code or missing code • CODE_LABEL: A label describing the reason for the missing value • RULE: A rule in REDcap style (see, e.g., REDcap help and REDcap how-to) that describes cases for the missing • DATA_PREPARATION: optional. if available, and use_value_labels`` is either missing or NA‘, this columns controls the rule handling.

use_value_labels
: logical In rules for factors, use the value labels, not the codes. Defaults to TRUE, if any VALUE_LABELS are given in the metadata, and no DATA_PREPARATION exists for the rules. NA means to use DATA_PREPARATION, if available.

overwrite
: logical Also insert missing codes, if the values are not NA

meta_data
: data.frame old name for item_level

Value

a list with the entries:

- ModifiedStudyData: Study data with NAs replaced by the CODE_VALUE
- ModifiedMetaData: Metadata having the new codes amended in the columns JUMP_LIST or MISSING_LIST, respectively

Author(s)

Thomas J. Musholt contributed the performance improvement for simple rule evaluation.

---

prep_add_to_meta *Support function to augment metadata during data quality reporting*

Description

adds an annotation to static metadata

Usage

```
prep_add_to_meta(
  VAR_NAMES,
  DATA_TYPE,
  LABEL,
  VALUE_LABELS,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  ...
)
```

Arguments

VAR_NAMES
: character Names of the Variables to add

DATA_TYPE
: character Data type for the added variables

LABEL
: character Labels for these variables

VALUE_LABELS
: character Value labels for the values of the variables as usually pipe separated and assigned with =: 1 = male | 2 = female

item_level	data.frame the data frame that contains metadata attributes of study data
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
...	Further defined variable attributes, see prep_create_meta

Details

Add metadata e.g. of transformed/new variable This function is not yet considered stable, but we already export it, because it could help. Therefore, we have some inconsistencies in the formals still.

Value

a data frame with amended metadata.

---

prep_apply_coding *Re-Code labels with their respective codes according to the* meta_data

---

Description

Re-Code labels with their respective codes according to the meta_data

Usage

```
prep_apply_coding(
  study_data,
  meta_data_v2,
  item_level = "item_level",
  meta_data = item_level
)
```

Arguments

study_data	data.frame the data frame that contains the measurements
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
item_level	data.frame the data frame that contains metadata attributes of study data
meta_data	data.frame old name for item_level

Value

data.frame modified study data with labels replaced by the codes

prep_check_for_dataquieR_updates

Check for package updates

Description

Check for package updates

Usage

```
prep_check_for_dataquieR_updates(
  beta = FALSE,
  deps = TRUE,
  ask = interactive(),
  byte_compile = TRUE
)
```

Arguments

beta	logical check for beta version too
deps	logical check for missing (optional) dependencies
ask	logical ask for updates
byte_compile	logical install dataquieR from source with byte-compiled R code

Value

invisible(NULL)

prep_check_meta_data_dataframe

Verify and normalize metadata on data frame level

Description

if possible, mismatching data types are converted ("true" becomes TRUE)

Usage

```
prep_check_meta_data_dataframe(
  meta_data_dataframe = "dataframe_level",
  meta_data_v2,
  dataframe_level
)
```

Arguments

`meta_data_dataframe`
: data.frame data frame or path/url of a metadata sheet for the data frame level

`meta_data_v2`
: character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`dataframe_level`
: data.frame alias for `meta_data_dataframe`

Details

missing columns are added, filled with `NA`, if this is valid, i.e., n.a. for `DF_NAME` as the key column

Value

standardized metadata sheet as data frame

Examples

```
## Not run:
mds <- prep_check_meta_data_dataframe("ship_meta_dataframe|dataframe_level") # also converts
print(mds)
prep_check_meta_data_dataframe(mds)
mds1 <- mds
mds1$DF_RECORD_COUNT <- NULL
print(prep_check_meta_data_dataframe(mds1)) # fixes the missing column by NAs
mds1 <- mds
mds1$DF_UNIQUE_ROWS[[2]] <- "xxx" # not convertible
# print(prep_check_meta_data_dataframe(mds1)) # fail
mds1 <- mds
mds1$DF_UNIQUE_ID[[2]] <- 12
# print(prep_check_meta_data_dataframe(mds1)) # fail

## End(Not run)
```

---

prep_check_meta_data_segment

Verify and normalize metadata on segment level

Description

if possible, mismatching data types are converted (`"true"` becomes `TRUE`)

Usage

```
prep_check_meta_data_segment(
  meta_data_segment = "segment_level",
  meta_data_v2,
  segment_level
)
```

Arguments

`meta_data_segment`
: data.frame data frame or path/url of a metadata sheet for the segment level

`meta_data_v2`
: character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`segment_level`
: data.frame alias for `meta_data_segment`

Details

missing columns are added, filled with `NA`, if this is valid, i.e., n.a. for `STUDY_SEGMENT` as the key column

Value

standardized metadata sheet as data frame

Examples

```
## Not run:
mds <- prep_check_meta_data_segment("ship_meta_v2|segment_level") # also converts
print(mds)
prep_check_meta_data_segment(mds)
mds1 <- mds
mds1$SEGMENT_RECORD_COUNT <- NULL
print(prep_check_meta_data_segment(mds1)) # fixes the missing column by NAs
mds1 <- mds
mds1$SEGMENT_UNIQUE_ROWS[[2]] <- "xxx" # not convertible
# print(prep_check_meta_data_segment(mds1)) # fail

## End(Not run)
```

`prep_check_meta_names` *Checks the validity of metadata w.r.t. the provided column names*

Description

This function verifies, if a data frame complies to metadata conventions and provides a given richness of meta information as specified by `level`.

Usage

```
prep_check_meta_names(
  item_level = "item_level",
  level,
  character.only = FALSE,
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

item_level	data.frame the data frame that contains metadata attributes of study data
level	enum level of requirement (see also VARATT_REQUIRE_LEVELS). set to NULL to deactivate the check of richness.
character.only	logical a logical indicating whether level can be assumed to be character strings.
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Details

Note, that only the given level is checked despite, levels are somehow hierarchical.

Value

a logical with:

- invisible(TRUE). In case of problems with the metadata, a condition is raised (stop()).

Examples

```
## Not run:
prep_check_meta_names(data.frame(
  VAR_NAMES = 1, DATA_TYPE = 2,
  MISSING_LIST = 3
))

prep_check_meta_names(
  data.frame(
    VAR_NAMES = 1, DATA_TYPE = 2, MISSING_LIST = 3,
    LABEL = "LABEL", VALUE_LABELS = "VALUE_LABELS",
    JUMP_LIST = "JUMP_LIST", HARD_LIMITS = "HARD_LIMITS",
    GROUP_VAR_OBSERVER = "GROUP_VAR_OBSERVER",
    GROUP_VAR_DEVICE = "GROUP_VAR_DEVICE",
    TIME_VAR = "TIME_VAR",
    PART_VAR = "PART_VAR",
    STUDY_SEGMENT = "STUDY_SEGMENT",
    LOCATION_RANGE = "LOCATION_RANGE",
    LOCATION_METRIC = "LOCATION_METRIC",
    PROPORTION_RANGE = "PROPORTION_RANGE",
    MISSING_LIST_TABLE = "MISSING_LIST_TABLE",
    CO_VARS = "CO_VARS",
    LONG_LABEL = "LONG_LABEL"
  ),
  RECOMMENDED
)

prep_check_meta_names(
  data.frame(
```

```
    VAR_NAMES = 1, DATA_TYPE = 2, MISSING_LIST = 3,
    LABEL = "LABEL", VALUE_LABELS = "VALUE_LABELS",
    JUMP_LIST = "JUMP_LIST", HARD_LIMITS = "HARD_LIMITS",
    GROUP_VAR_OBSERVER = "GROUP_VAR_OBSERVER",
    GROUP_VAR_DEVICE = "GROUP_VAR_DEVICE",
    TIME_VAR = "TIME_VAR",
    PART_VAR = "PART_VAR",
    STUDY_SEGMENT = "STUDY_SEGMENT",
    LOCATION_RANGE = "LOCATION_RANGE",
    LOCATION_METRIC = "LOCATION_METRIC",
    PROPORTION_RANGE = "PROPORTION_RANGE",
    DETECTION_LIMITS = "DETECTION_LIMITS", SOFT_LIMITS = "SOFT_LIMITS",
    CONTRADICTIONS = "CONTRADICTIONS", DISTRIBUTION = "DISTRIBUTION",
    DECIMALS = "DECIMALS", VARIABLE_ROLE = "VARIABLE_ROLE",
    DATA_ENTRY_TYPE = "DATA_ENTRY_TYPE",
    CO_VARS = "CO_VARS",
    END_DIGIT_CHECK = "END_DIGIT_CHECK",
    VARIABLE_ORDER = "VARIABLE_ORDER", LONG_LABEL =
      "LONG_LABEL", recode = "recode",
    MISSING_LIST_TABLE = "MISSING_LIST_TABLE"
  ),
  OPTIONAL
)

# Next one will fail
try(
  prep_check_meta_names(data.frame(
    VAR_NAMES = 1, DATA_TYPE = 2,
    MISSING_LIST = 3
  ), TECHNICAL)
)

## End(Not run)
```

`prep_clean_labels` *Support function to scan variable labels for applicability*

Description

Adjust labels in meta_data to be valid variable names in formulas for diverse r functions, such as `glm` or `lme4::lmer`.

Usage

```
prep_clean_labels(
  label_col,
  item_level = "item_level",
  no_dups = FALSE,
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

`label_col`	character label attribute to adjust or character vector to adjust, depending on `meta_data` argument is given or missing.
`item_level`	data.frame metadata data frame: If `label_col` is a label attribute to adjust, this is the metadata table to process on. If missing, `label_col` must be a character vector with values to adjust.
`no_dups`	logical disallow duplicates in input or output vectors of the function, then, prep_clean_labels would call `stop()` on duplicated labels.
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Details

Hint: The following is still true, but the functions should be capable of doing potentially needed fixes on-the-fly automatically, so likely you will not need this function any more.

Currently, labels as given by `label_col` arguments in the most functions are directly used in formula, so that they become natural part of the outputs, but different models expect differently strict syntax for such formulas, especially for valid variable names. `prep_clean_labels` removes all potentially inadmissible characters from variable names (no guarantee, that some exotic model still rejects the names, but minimizing the number of exotic characters). However, variable names are modified, may become unreadable or indistinguishable from other variable names. For the latter case, a `stop` call is possible, controlled by the `no_dups` argument.

A warning is emitted, if modifications were necessary.

Value

a data.frame with:

- if `meta_data` is set, a list with:
  - modified `meta_data[, label_col]` column
- if `meta_data` is not set, adjusted labels that then were directly given in label_col

Examples

```
## Not run:
meta_data1 <- data.frame(
  LABEL =
    c(
      "syst. Blood pressure (mmHg) 1",
      "1st heart frequency in MHz",
      "body surface (\\u33A1)"
    )
)
print(meta_data1)
print(prep_clean_labels(meta_data1$LABEL))
```

```
meta_data1 <- prep_clean_labels("LABEL", meta_data1)
print(meta_data1)

## End(Not run)
```

---

prep_combine_report_summaries
Combine two report summaries

Description

Combine two report summaries

Usage

```
prep_combine_report_summaries(..., summaries_list, amend_segment_names = FALSE)
```

Arguments

...	objects returned by prep_extract_summary
summaries_list	if given, list of objects returned by prep_extract_summary
amend_segment_names	logical use names of the summaries_list and argument names as segment prefixes

Value

combined summaries

See Also

Other summary_functions: prep_extract_classes_by_functions(), prep_extract_summary(), prep_extract_summary.dataquieR_result(), prep_extract_summary.dataquieR_resultset2(), prep_render_pie_chart_from_summaryclasses_ggplot2(), prep_render_pie_chart_from_summaryclasses_plotl
prep_summary_to_classes()

prep_compare_meta_with_study

Verify item-level metadata

Description

are the provided item-level `meta_data` plausible given `study_data`?

Usage

```
prep_compare_meta_with_study(
  study_data,
  label_col,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

`study_data`	data.frame the data frame that contains the measurements
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`item_level`	data.frame the data frame that contains metadata attributes of study data
`meta_data`	data.frame old name for `item_level`
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

Value

an `invisible()` list with the entries.

- `pred` data.frame metadata predicted from `study_data`, reduced to such metadata also available in the provided metadata
- `prov` data.frame provided metadata, reduced to such metadata also available in the provided `study_data`
- `ml_error` character `VAR_NAMES` of variables with potentially wrong `MISSING_LIST`
- `sl_error` character `VAR_NAMES` of variables with potentially wrong `SCALE_LEVEL`
- `dt_error` character `VAR_NAMES` of variables with potentially wrong `DATA_TYPE`

`prep_create_meta` *Support function to create data.frames of metadata*

Description

Create a metadata data frame and map names. Generally, this function only creates a data.frame, but using this constructor instead of calling `data.frame(..., stringsAsFactors = FALSE)`, it becomes possible, to adapt the metadata data.frame in later developments, e.g. if we decide to use classes for the metadata, or if certain standard names of variable attributes change. Also, a validity check is possible to implement here.

Usage

```
prep_create_meta(..., stringsAsFactors = FALSE, level, character.only = FALSE)
```

Arguments

`...`	named column vectors, names will be mapped using WELL_KNOWN_META_VARIABLE_NAMES, if included in WELL_KNOWN_META_VARIABLE_NAMES can also be a data frame, then its column names will be mapped using WELL_KNOWN_META_VARIABLE_NAMES
`stringsAsFactors`	logical if the argument is a list of vectors, a data frame will be created. In this case, `stringsAsFactors` controls, whether characters will be auto-converted to Factors, which defaults here always to false independent from the default.stringsAsFactors.
`level`	enum level of requirement (see also VARATT_REQUIRE_LEVELS) set to `NULL`, if not a complete metadata frame is created.
`character.only`	logical a logical indicating whether level can be assumed to be character strings.

Details

For now, this calls data.frame, but it already renames variable attributes, if they have a different name assigned in WELL_KNOWN_META_VARIABLE_NAMES, e.g. `WELL_KNOWN_META_VARIABLE_NAMES$RECODE` maps to `recode` in lower case.

NB: `dataquieR` exports all names from WELL_KNOWN_META_VARIABLE_NAME as symbols, so `RECODE` also contains `"recode"`.

Value

a data frame with:

- metadata attribute names mapped and
- metadata checked using prep_check_meta_names and do some more verification about conventions, such as check for valid intervals in limits)

See Also

WELL_KNOWN_META_VARIABLE_NAMES

prep_create_meta_data_file

Instantiate a new metadata file

Description

Instantiate a new metadata file

Usage

```
prep_create_meta_data_file(
  file_name,
  study_data,
  open = TRUE,
  overwrite = FALSE
)
```

Arguments

`file_name`	character file path to write to
`study_data`	data.frame optional, study data to guess metadata from
`open`	logical open the file after creation
`overwrite`	logical overwrite `file`, if exists

Value

`invisible(NULL)`

prep_create_storr_factory

Create a factory function for `storr` objects for backing a dataquieR_resultset2

Description

Create a factory function for `storr` objects for backing a dataquieR_resultset2

Usage

```
prep_create_storr_factory(db_dir = tempfile(), namespace = "objects")
```

Arguments

db_dir	character path to the directory for the back-end, if one is created on the fly.
namespace	character namespace for the report, so that one back-end can back several reports the returned function will try to create a storr object using a temporary folder or the folder in db_dir, if specified. The database will either be the storr_rds.

Value

storr object or NULL, if package storr is not available

---

prep_datatype_from_data

Get data types from data

Description

Get data types from data

Usage

```
prep_datatype_from_data(
  resp_vars = colnames(study_data),
  study_data,
  .dont_cast_off_cols = FALSE,
  guess_character = getOption("dataquieR.guess_character", default =
    dataquieR.guess_character_default)
)
```

Arguments

resp_vars	variable list the names of variables to inspect in study_data. If missing, all variables in study_data will be used.
study_data	data.frame study data inspected to derive metadata. Only data frames are supported, not URLs or file names.
.dont_cast_off_cols	logical internal use, only
guess_character	logical guess a data type for character columns based on the values

Value

vector of data types

See Also

prep_robust_guess_data_type()

Examples

```
## Not run:
dataquieR::prep_datatype_from_data(cars)

## End(Not run)
```

`prep_deparse_assignments` *Convert two vectors from a code-value-table to a key-value list*

Description

Convert two vectors from a code-value-table to a key-value list

Usage

```
prep_deparse_assignments(
  codes,
  labels = codes,
  split_char = SPLIT_CHAR,
  mode = c("numeric_codes", "string_codes")
)
```

Arguments

`codes`	codes, numeric or dates (as default, but string codes can be enabled using the option 'mode', see below)
`labels`	character labels, same length as codes
`split_char`	character split character character to split code assignments
`mode`	character one of two options to insist on numeric or datetime codes (default) or to allow for string codes

Value

a vector with assignment strings for each row of `cbind(codes, labels)`

prep_deregister_progress_hook

De-register a hook function for progresses in computation/rendering

Description

De-register a hook function for progresses in computation/rendering

Usage

```
prep_deregister_progress_hook(handle, verbose = TRUE)
```

Arguments

handle	character the handle
verbose	logical message, if handle has currently no registration

Value

logical invisible(TRUE) on success

prep_dq_data_type_of

Get the dataquieR DATA_TYPE *of* x

Description

Get the dataquieR DATA_TYPE of x

Usage

```
prep_dq_data_type_of(
  x,
  guess_character = getOption("dataquieR.guess_character", default =
    dataquieR.guess_character_default)
)
```

Arguments

x	object to define the dataquieR data type of
guess_character	logical guess a data type for character columns based on the values

Value

the dataquieR data type as listed in DATA_TYPES

See Also

DATA_TYPES_OF_R_TYPE

---

prep_expand_codes *Expand code labels across variables*

Description

Code labels are copied from other variables, if the code is the same and the label is set only for some variables

Usage

```
prep_expand_codes(
  item_level = "item_level",
  suppressWarnings = FALSE,
  mix_jumps_and_missings = FALSE,
  meta_data_v2,
  meta_data = item_level
)
```

Arguments

item_level	data.frame the data frame that contains metadata attributes of study data
suppressWarnings	logical show warnings, if labels are expanded
mix_jumps_and_missings	logical ignore the class of the codes for label expansion, i.e., use missing code labels as jump code labels, if the values are the same.
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
meta_data	data.frame old name for item_level

Value

data.frame an updated metadata data frame.

Examples

```
## Not run:
meta_data <- prep_get_data_frame("meta_data")
meta_data[[JUMP_LIST]][meta_data[[VAR_NAMES]] == "v00003"] <- "99980 = NOOP"
md <- prep_expand_codes(meta_data)
md[[JUMP_LIST]]
md[[MISSING_LIST]]
md <- prep_expand_codes(meta_data, mix_jumps_and_missings = TRUE)
```

```
md[[JUMP_LIST]]
md[[MISSING_LIST]]
meta_data <- prep_get_data_frame("meta_data")
meta_data[[MISSING_LIST]][meta_data[[VAR_NAMES]] == "v00003"] <- "99980 = NOOP"
md <- prep_expand_codes(meta_data)
md[[JUMP_LIST]]
md[[MISSING_LIST]]

## End(Not run)
```

`prep_extract_cause_label_df` *Extract all missing/jump codes from metadata and export a cause-label-data-frame*

Description

Extract all missing/jump codes from metadata and export a cause-label-data-frame

Usage

```
prep_extract_cause_label_df(
  item_level = "item_level",
  label_col = VAR_NAMES,
  meta_data_v2,
  meta_data = item_level
)
```

Arguments

`item_level`	data.frame the data frame that contains metadata attributes of study data
`label_col`	variable attribute the name of the column in the metadata with labels of variables
`meta_data_v2`	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
`meta_data`	data.frame old name for `item_level`

Value

list with the entries

- `meta_data` data.frame a data frame that contains updated metadata – you still need to add a column MISSING_LIST_TABLE and add the `cause_label_df` as such to the metadata cache using `prep_add_data_frames()`, manually.
- `cause_label_df` data.frame missing code table. If missing codes have labels the respective data frame are specified here, see cause_label_df.

See Also

prep_add_cause_label_df

---

prep_extract_classes_by_functions *Extract old function based summary from data quality results*

Description

Extract old function based summary from data quality results

Usage

```
prep_extract_classes_by_functions(r)
```

Arguments

r	dq_report2

Value

data.frame long format, compatible with `prep_summary_to_classes()`

See Also

Other summary_functions: `prep_combine_report_summaries()`, `prep_extract_summary()`, `prep_extract_summary.da`
`prep_extract_summary.dataquieR_resultset2()`, `prep_render_pie_chart_from_summaryclasses_ggplot2()`,
`prep_render_pie_chart_from_summaryclasses_plotly()`, `prep_summary_to_classes()`

---

prep_extract_summary *Extract summary from data quality results*

Description

Generic function, currently supports dq_report2 and dataquieR_result

Usage

```
prep_extract_summary(r, ...)
```

Arguments

r	dq_report2 or dataquieR_result object
...	further arguments, maybe needed for some implementations

Value

list with two slots `Data` and `Table` with data.frames featuring all metrics columns from the report or result in `x`, the STUDY_SEGMENT and the VAR_NAMES. In case of `Data`, the columns are formatted nicely but still with the standardized column names – use `util_translate_indicator_metrics()` to rename them nicely. In case of `Table`, just as they are.

See Also

Other summary_functions: `prep_combine_report_summaries()`, `prep_extract_classes_by_functions()`, `prep_extract_summary.dataquieR_result()`, `prep_extract_summary.dataquieR_resultset2()`, `prep_render_pie_chart_from_summaryclasses_ggplot2()`, `prep_render_pie_chart_from_summaryclasses_plotl`
`prep_summary_to_classes()`

---

prep_extract_summary.dataquieR_result

Extract report summary from reports

Description

Extract report summary from reports

Usage

```
## S3 method for class 'dataquieR_result'
prep_extract_summary(r, ...)
```

Arguments

`r`	dataquieR_result a result from adq_report2 report
`...`	not used

Value

list with two slots `Data` and `Table` with data.frames featuring all metrics columns from the report `r`, the STUDY_SEGMENT and the VAR_NAMES. In case of `Data`, the columns are formatted nicely but still with the standardized column names – use `util_translate_indicator_metrics()` to rename them nicely. In case of `Table`, just as they are.

See Also

`prep_combine_report_summaries()`

Other summary_functions: `prep_combine_report_summaries()`, `prep_extract_classes_by_functions()`, `prep_extract_summary()`, `prep_extract_summary.dataquieR_resultset2()`, `prep_render_pie_chart_from_summar`
`prep_render_pie_chart_from_summaryclasses_plotly()`, `prep_summary_to_classes()`

prep_extract_summary.dataquieR_resultset2

Extract report summary from reports

Description

Extract report summary from reports

Usage

```
## S3 method for class 'dataquieR_resultset2'
prep_extract_summary(r, ...)
```

Arguments

r	dq_report2 a dq_report2 report
...	not used

Value

list with two slots Data and Table with data.frames featuring all metrics columns from the report r, the STUDY_SEGMENT and the VAR_NAMES. In case of Data, the columns are formatted nicely but still with the standardized column names – use util_translate_indicator_metrics() to rename them nicely. In case of Table, just as they are.

See Also

prep_combine_report_summaries()

Other summary_functions: prep_combine_report_summaries(), prep_extract_classes_by_functions(), prep_extract_summary(), prep_extract_summary.dataquieR_result(), prep_render_pie_chart_from_summarycla
prep_render_pie_chart_from_summaryclasses_plotly(), prep_summary_to_classes()

prep_fix_meta_id_dups *Fix metadata duplicates*

Description

if VAR_NAMES have duplicates, maybe, it's because of ID-vars assigned to different study segments multiple times (they should be in one "intro"- segment, only), which is not the intended use of STUDY_SEGMENT. Naturally, they will be part of more than one data-frame, so this would also qualify for a dump duplicate, only, which can safely be removed. Only ID-vars are by default assumed to have such duplicates in item level metadata allowed.

Usage

```
prep_fix_meta_id_dups(
  meta_data_segment = "segment_level",
  meta_data_dataframe = "dataframe_level",
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  segment_level,
  dataframe_level
)
```

Arguments

`meta_data_segment`
: data.frame – optional: Segment level metadata

`meta_data_dataframe`
: data.frame the data frame that contains the metadata for the data frame level

`item_level`
: data.frame the data frame that contains metadata attributes of study data

`meta_data`
: data.frame old name for `item_level`

`meta_data_v2`
: character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`segment_level`
: data.frame alias for `meta_data_segment`

`dataframe_level`
: data.frame alias for `meta_data_dataframe`

Value

meta_data

Examples

```
## Not run:
il <- prep_get_data_frame("item_level")
il <- rbind(il, il)
il[[STUDY_SEGMENT]][2] <- "X"
il2 <- prep_fix_meta_id_dups(meta_data_v2 = "meta_data_v2", item_level = il)
il2$STUDY_SEGMENT
il[[STUDY_SEGMENT]][3] <- "X"
il3 <- prep_fix_meta_id_dups(meta_data_v2 = "meta_data_v2", item_level = il)
il3$STUDY_SEGMENT

## End(Not run)
```

prep_get_data_frame *Read data from files/URLs*

Description

data_frame_name can be a file path or an URL you can append a pipe and a sheet name for Excel files or object name e.g. for `RData` files. Numbers may also work. All file formats supported by your `rio` installation will work.

Usage

```
prep_get_data_frame(
  data_frame_name,
  .data_frame_list = .dataframe_environment(),
  keep_types = FALSE,
  column_names_only = FALSE
)
```

Arguments

`data_frame_name`
: character name of the data frame to read, see details

`.data_frame_list`
: environment cache for loaded data frames

`keep_types`
: logical keep types as possibly defined in a file, if the data frame is loaded from one. set `TRUE` for study data.

`column_names_only`
: logical if TRUE imports only headers (column names) of the data frame and no content (an empty data frame)

Details

The data frames will be cached automatically. This cache is mainly a registry of already loaded or explicitly registered tables: repeated calls by the same name return the registered object and do not re-read the source file or URL. Arguments such as `keep_types` therefore affect loading, but not later retrieval of an already cached data frame. You can define an alternative environment for this using the argument `.data_frame_list`, and you can purge the cache using prep_purge_data_frame_cache.

Use prep_add_data_frames to manually add data frames to the cache, e.g., if you have loaded them from more complex sources, before.

Value

data.frame a data frame

See Also

prep_add_data_frames

prep_load_workbook_like_file

Other data-frame-cache: prep_add_data_frames(), prep_list_dataframes(), prep_load_folder_with_metadata(), prep_load_workbook_like_file(), prep_purge_data_frame_cache(), prep_remove_from_cache()

Examples

```
## Not run:
bl <- as.factor(prep_get_data_frame(
  paste0(
    "https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus",
    "/Projekte_RKI/COVID-19_Todesfaelle.xlsx?__blob=",
    "publicationFile|COVID_Todesfälle_BL|Bundesland"
  )
)[[1]])

n <- as.numeric(prep_get_data_frame(paste0(
  "https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/",
  "Projekte_RKI/COVID-19_Todesfaelle.xlsx?__blob=",
  "publicationFile|COVID_Todesfälle_BL|Anzahl verstorbene",
  " COVID-19 Fälle"
))[[1]])
plot(bl, n)
# Working names would be to date (2022-10-21), e.g.:
#
# https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/ \
#    Projekte_RKI/COVID-19_Todesfaelle.xlsx?__blob=publicationFile
# https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/  \
#    Projekte_RKI/COVID-19_Todesfaelle.xlsx?__blob=publicationFile|2
# https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/ \
#    Projekte_RKI/COVID-19_Todesfaelle.xlsx?__blob=publicationFile|name
# study_data
# ship
# meta_data
# ship_meta
#
prep_get_data_frame("meta_data | meta_data")

## End(Not run)
```

---

prep_get_labels *Fetch a label for a variable based on its purpose*

Description

Fetch a label for a variable based on its purpose

Usage

```
prep_get_labels(
  resp_vars,
  item_level = "item_level",
  label_col,
  max_len,
  label_class = c("SHORT", "LONG"),
  label_lang = getOption("dataquieR.lang", dataquieR.lang_default),
  resp_vars_are_var_names_only = FALSE,
  resp_vars_match_label_col_only = FALSE,
  meta_data = item_level,
  meta_data_v2,
  force_label_col = getOption("dataquieR.force_label_col",
    dataquieR.force_label_col_default)
)
```

Arguments

`resp_vars` variable the names of the measurement variables, if missing or `NULL`, all variables will be checked

`item_level` data.frame the data frame that contains metadata attributes of study data

`label_col` variable attribute the name of the column in the metadata with labels of variables

`max_len` integer the maximum label length to return, if not possible w/o causing ambiguous labels, the labels may still be longer. For `label_class == "LONG"`, it defaults to `200`, while for `label_class == "SHORT"` to `30`

`label_class` enum SHORT | LONG. which sort of label according to the metadata model should be returned

`label_lang` character optional language suffix, if available in the metadata. Can be controlled by the option `dataquieR.lang`.

`resp_vars_are_var_names_only` logical If `TRUE`, do not use other labels than VAR_NAMES for finding `resp_vars` in `meta_data`

`resp_vars_match_label_col_only` logical If `TRUE`, do not use other labels than those, referred by `label_col` for finding `resp_vars` in `meta_data`

`meta_data` data.frame old name for `item_level`

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`force_label_col` enum auto | FALSE | TRUE. if `TRUE`, always use labels according `label_col`, `FALSE` means use labels matching best the function's requirements, `auto` means `FALSE`, if in a `dq_report()` and `TRUE`, otherwise.

Value

character suitable labels for each `resp_vars`, names of this vector are VAR_NAMES

Examples

```
## Not run:
prep_load_workbook_like_file("meta_data_v2")
prep_get_labels("SEX_0", label_class = "SHORT", max_len = 2)

## End(Not run)
```

---

prep_get_study_data_segment

Get data frame for a given segment

Description

Get data frame for a given segment

Usage

```
prep_get_study_data_segment(
  segment,
  study_data,
  item_level = "item_level",
  meta_data = item_level,
  meta_data_v2,
  segment_level,
  meta_data_segment = "segment_level"
)
```

Arguments

segment	character name of the segment to return data for
study_data	data.frame the data frame that contains the measurements
item_level	data.frame the data frame that contains metadata attributes of study data
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.
segment_level	data.frame alias for meta_data_segment
meta_data_segment	data.frame – optional: Segment level metadata

Value

data.frame the data for the segment

prep_get_user_name *Return the logged-in User's Full Name*

Description

If `whoami` is not installed, the user name from `Sys.info()` is returned.

Usage

```
prep_get_user_name()
```

Details

Can be overridden by options or environment:

`options(FULLNAME = "Stephan Struckmann")`

`Sys.setenv(FULLNAME = "Stephan Struckmann")`

Value

character the user's name

prep_guess_encoding *Guess encoding of text or text files*

Description

Guess encoding of text or text files

Usage

```
prep_guess_encoding(x, file)
```

Arguments

`x`	character string to guess encoding for
`file`	character file to guess encoding for

Value

encoding

prep_is_translated *Detect if an object is a* dataquieR_translated *object*

Description

Detect if an object is a dataquieR_translated object

Usage

```
prep_is_translated(x)
```

Arguments

x	the object to test

Value

TRUE, if x is a dataquieR_translated object.

prep_link_escape *Prepare a label as part of a link for* RMD *files*

Description

Prepare a label as part of a link for RMD files

Usage

```
prep_link_escape(s, html = FALSE)
```

Arguments

s	the label
html	prepare the label for direct HTML output instead of RMD

Value

the escaped label

prep_list_dataframes *List Loaded Data Frames*

Description

List Loaded Data Frames

Usage

```
prep_list_dataframes()
```

Value

names of all loaded data frames

See Also

Other data-frame-cache: prep_add_data_frames(), prep_get_data_frame(), prep_load_folder_with_metadata(), prep_load_workbook_like_file(), prep_purge_data_frame_cache(), prep_remove_from_cache()

prep_list_voc *All valid* voc: *vocabularies*

Description

All valid voc: vocabularies

Usage

```
prep_list_voc()
```

Value

character() all voc: suffixes allowed for prep_get_data_frame().

Examples

```
## Not run:
prep_list_dataframes()
prep_list_voc()
prep_get_data_frame("<ICD10>")
my_voc <-
  tibble::tribble(
    ~voc, ~url,
    "test", "data:datasets|iris|Species+Sepal.Length"
  )
prep_add_data_frames(`<>` = my_voc)
```

```
prep_list_dataframes()
prep_list_voc()
prep_get_data_frame("<test>")
prep_get_data_frame("<ICD10>")
my_voc <-
  tibble::tribble(
    ~voc, ~url,
    "ICD10", "data:datasets|iris|Species+Sepal.Length"
  )
prep_add_data_frames(`<>` = my_voc)
prep_list_dataframes()
prep_list_voc()
prep_get_data_frame("<ICD10>")

## End(Not run)
```

---

prep_load_folder_with_metadata

Pre-load a folder with named (usually more than) one table(s)

Description

The original purpose of this function is to load metadata, not study data. If you want to load study data, you should keep them in a different folder, then you can call this function once for the metadata and once for the study data but this time setting `keep_types = TRUE` to avoid all data being read as `character()`.

Usage

```
prep_load_folder_with_metadata(folder, keep_types = FALSE, append = FALSE, ...)
```

Arguments

`folder`	the folder name to load.
`keep_types`	logical keep types as possibly defined in the file. set `TRUE` for study data.
`append`	logical if a data frame already exists in the cache (by name), extend the existing one
`...`	arguments passed to `list.files()`

Details

Note, that once loaded to the data frame cache, a file won't be read again, except you call `prep_purge_data_frame_cache()` or `prep_remove_from_cache()`. That is, if you call this function first, and `prep_get_data_frame()` later, or if `dataquieR` wants to read a file, e.g., for `dq_report2()`, the file will come from the cache in the way it was initially read in (`keep_types` may thus be used inadequately).

By default, this function does not search nested folders. Pass `recursive = TRUE` through `...` to `list.files()` to include them.

Loaded files can thereafter be referred to by name only, for example spreadsheet workbooks or `RData` files.

Note, that this function in contrast to prep_get_data_frame does not support selecting specific sheets/columns from a file.

Value

`invisible(the cache environment)`

See Also

prep_add_data_frames

prep_get_data_frame

Other data-frame-cache: `prep_add_data_frames()`, `prep_get_data_frame()`, `prep_list_dataframes()`, `prep_load_workbook_like_file()`, `prep_purge_data_frame_cache()`, `prep_remove_from_cache()`

`prep_load_report` *Load a* `dq_report2`

Description

Load a `dq_report2`

Usage

```
prep_load_report(file)
```

Arguments

`file`	character the file name to load from

Value

dataquieR_resultset2 the report

prep_load_report_from_backend

Load a report from a back-end

Description

Load a report from a back-end

Usage

```
prep_load_report_from_backend(
  namespace = "objects",
  db_dir,
 storr_factory = prep_create_storr_factory(namespace = namespace, db_dir = db_dir)
)
```

Arguments

namespace	the namespace to read the report's results from
db_dir	character path to the directory for the back-end, if a storr_rds or storr_torr is used.
storr_factory	a function returning a storr object holding the report

Value

dataquieR_resultset2 the report

See Also

prep_create_storr_factory()

Examples

```
## Not run:
r <- dataquieR::dq_report2("study_data",
  meta_data_v2 = "meta_data_v2",
  dimensions = NULL
)
storr_factory <- prep_create_storr_factory()
r_storr <- prep_set_backend(r, storr_factory)
r_restorr <- prep_set_backend(r_storr, NULL)
r_loaded <- prep_load_report_from_backend(storr_factory)

## End(Not run)
```

prep_load_workbook_like_file

Pre-load a file with named (usually more than) one table(s)

Description

These can thereafter be referred to by their names only. Such files are, e.g., spreadsheet-workbooks or RData-files. For workbook-like files, each loaded sheet is cached by its sheet name and by qualified names that include the workbook base name, separated by |. For example, sheet tab1 in meta_data_v2.xlsx can be referred to as tab1, meta_data_v2.xlsx|tab1, or meta_data_v2|tab1 after the workbook has been loaded. The short sheet name is convenient when the whole workbook is loaded together. If item-level metadata are supplied without loading the full metadata workbook, references in item-level columns such as CODE_LIST_TABLE or MISSING_LIST_TABLE must use a name that is already present in the data-frame cache, for example the qualified name meta_data_v2.xlsx|tab1.

Usage

```
prep_load_workbook_like_file(file, keep_types = FALSE, append = FALSE)
```

Arguments

file	the file name to load.
keep_types	logical keep types as possibly defined in the file. set TRUE for study data.
append	logical if a data frame already exists in the cache (by name), extend the existing one

Details

Note, that this function in contrast to prep_get_data_frame does neither support selecting specific sheets/columns from a file.

Value

invisible(the cache environment)

See Also

prep_add_data_frames

prep_get_data_frame

Other data-frame-cache: prep_add_data_frames(), prep_get_data_frame(), prep_list_dataframes(), prep_load_folder_with_metadata(), prep_purge_data_frame_cache(), prep_remove_from_cache()

prep_map_labels *Support function to allocate labels to variables*

Description

Map variables to certain attributes, e.g. by default their labels.

Usage

```
prep_map_labels(
  x,
  item_level = "item_level",
  to = LABEL,
  from = VAR_NAMES,
  ifnotfound,
  warn_ambiguous = FALSE,
  meta_data_v2,
  meta_data = item_level
)
```

Arguments

x	character variable names, character vector, see parameter from
item_level	data.frame the data frame that contains metadata attributes of study data
to	character variable attribute to map to
from	character variable identifier to map from
ifnotfound	list A list of values to be used if the item is not found: it will be coerced to a list if necessary.
warn_ambiguous	logical print a warning if mapping variables from `from` to `to` produces ambiguous identifiers.
meta_data_v2	character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.
meta_data	data.frame old name for `item_level`

Details

This function basically calls `colnames(study_data) <- meta_data[[LABEL]]`, ensuring correct merging/joining of study data columns to the corresponding metadata rows, even if the orders differ. If a variable/study_data-column name is not found in `meta_data[[from]]` (default `from = VAR_NAMES`), either stop is called or, if `ifnotfound` has been assigned a value, that value is returned. See `mget`, which is internally used by this function.

The function not only maps to the `LABEL` column, but `to` can be any metadata variable attribute, so the function can also be used, to get, e.g. all `HARD_LIMITS` from the metadata.

Value

a character vector with:

- mapped values

Examples

```
## Not run:
meta_data <- prep_create_meta(
  VAR_NAMES = c("ID", "SEX", "AGE", "DOE"),
  LABEL = c("Pseudo-ID", "Gender", "Age", "Examination Date"),
  DATA_TYPE = c(
    DATA_TYPES$INTEGER, DATA_TYPES$INTEGER, DATA_TYPES$INTEGER,
    DATA_TYPES$DATETIME
  ),
  MISSING_LIST = ""
)
stopifnot(all(prep_map_labels(c("AGE", "DOE"), meta_data) == c(
  "Age",
  "Examination Date"
)))

## End(Not run)
```

---

prep_merge_study_data *Merge a list of study data frames to one (sparse) study data frame*

Description

Merge a list of study data frames to one (sparse) study data frame

Usage

```
prep_merge_study_data(study_data_list)
```

Arguments

`study_data_list`
: list the list

Value

data.frame study_data

prep_meta_data_v1_to_item_level_meta_data

Convert item-level metadata from v1.0 to v2.0

Description

This function is idempotent..

Usage

```
prep_meta_data_v1_to_item_level_meta_data(
  item_level = "item_level",
  verbose = TRUE,
  label_col = LABEL,
  cause_label_df,
  meta_data = item_level
)
```

Arguments

item_level	data.frame the data frame that contains metadata attributes of study data
verbose	logical display all estimated decisions, defaults to TRUE, except if called in a dq_report2 pipeline.
label_col	variable attribute the name of the column in the metadata with labels of variables
cause_label_df	data.frame missing code table, see cause_label_df. Optional. If this argument is given, you can add missing code tables.
meta_data	data.frame old name for item_level

Details

The options("dataquieR.force_item_specific_missing_codes") (default FALSE) tells the system, to always fill in res_vars columns to the MISSING_LIST_TABLE, even, if the column already exists, but is empty.

Value

data.frame the updated metadata

prep_min_obs_level — *Support function to identify the levels of a process variable with minimum number of observations*

Description

utility function to subset data based on minimum number of observation per level

Usage

```
prep_min_obs_level(study_data, group_vars, min_obs_in_subgroup)
```

Arguments

study_data	data.frame the data frame that contains the measurements
group_vars	variable list the names of the grouping variables
min_obs_in_subgroup	integer optional argument if a "group_var" is used. This argument specifies the minimum no. of observations that is required to include a subgroup (level) of the "group_var" in the analysis. Subgroups with less observations are excluded. The default is 30.

Details

This functions removes observations having fewer than `min_obs_in_subgroup` distinct values in a group variable, e.g. blood pressure measurements performed by an examiner having fewer than e.g. 50 measurements done. It displays a warning, if samples/rows are removed and returns the modified study data frame.

Value

a data frame with:

- a subsample of original data

prep_open_in_excel — *Open a data frame in Excel*

Description

Open a data frame in Excel

Usage

```
prep_open_in_excel(dfr)
```

Arguments

`dfr`	the data frame

Details

if the file cannot be read on function exit, NULL will be returned

Value

potentially modified data frame after dialog was closed

`prep_pmap` *Support function for a parallel* `pmap`

Description

parallel version of `purrr::pmap`

Usage

```
prep_pmap(.l, .f, ..., cores = 0)
```

Arguments

`.l`	data.frame with one call per line and one function argument per column
`.f`	`function` to call with the arguments from `.l`
`...`	additional, static arguments for calling `.f`
`cores`	number of cpu cores to use or a (named) list with arguments for the internal parallel backend (`util_parallel_start`) or NULL, if parallel has already been started by the caller. Set to 0 to run without parallelization. In RStudio report rendering, caller-owned clusters can make HTML finalization hang; prefer letting `dataquieR` create the cluster from a number or backend list.

Value

list of results of the function calls

Author(s)

Aurèle

S Struckmann

See Also

`purrr::pmap`

prep_prepare_dataframes

Prepare and verify study data with metadata

Description

This function ensures, that a data frame ds1 with suitable variable names study_data and meta_data exist as base data.frames.

Usage

```
prep_prepare_dataframes(
  .study_data,
  .meta_data,
  .label_col,
  .replace_hard_limits,
  .replace_missings,
  .sm_code = NULL,
  .allow_empty = FALSE,
  .adjust_data_type = TRUE,
  .amend_scale_level = TRUE,
  .apply_factor_metadata = FALSE,
  .apply_factor_metadata_inadm = FALSE,
 .internal = rlang::env_inherits(rlang::caller_env(), parent.env(environment()))
)
```

Arguments

- `.study_data` if provided, use this data set as study_data
- `.meta_data` if provided, use this data set as meta_data
- `.label_col` if provided, use this as label_col
- `.replace_hard_limits` replace HARD_LIMIT violations by NA, defaults to FALSE.
- `.replace_missings` replace missing codes, defaults to TRUE
- `.sm_code` missing code for NAs, if they have been re-coded by util_combine_missing_lists
- `.allow_empty` allow ds1 to be empty, i.e., 0 rows and/or 0 columns
- `.adjust_data_type` ensure that the data type of variables in the study data corresponds to their data type specified in the metadata
- `.amend_scale_level` ensure that SCALE_LEVEL is available in the item-level meta_data. internally used to prevent recursion, if called from prep_scalelevel_from_data_and_metadata().
- `.apply_factor_metadata` logical convert categorical variables to labeled factors.

`.apply_factor_metadata_inadm`
: logical convert categorical variables to labeled factors keeping inadmissible values. Implies, that .apply_factor_metadata will be set to `TRUE`, too.

`.internal`
: logical internally called, modify caller's environment.

Details

This function defines `ds1` and modifies `study_data` and `meta_data` in the environment of its caller (see eval.parent). It also defines or modifies the object `label_col` in the calling environment. Almost all functions exported by `dataquieR` call this function initially, so that aspects common to all functions live here, e.g. testing, if an argument `meta_data` has been given and features really a data.frame. It verifies the existence of required metadata attributes (VARATT_REQUIRE_LEVELS). It can also replace missing codes by `NA`s, and calls prep_study2meta to generate a minimum set of metadata from the study data on the fly (should be amended, so on-the-fly-calling is not recommended for an instructive use of `dataquieR`).

The function also detects `tibbles`, which are then converted to base-R data.frames, which are expected by `dataquieR`.

If `.internal` is `TRUE`, differently from the other utility function that work in their caller's environment, this function modifies objects in the calling function's environment. It defines a new object `ds1`, it modifies `study_data` and/or `meta_data` and `label_col`.

Value

`ds1` the study data with mapped column names, `invisible()`, if not `.internal`

See Also

acc_margins

Examples

```
## Not run:
acc_test1 <- function(resp_variable, aux_variable,
                      time_variable, co_variables,
                      group_vars, study_data, meta_data) {
  prep_prepare_dataframes()
  invisible(ds1)
}
acc_test2 <- function(resp_variable, aux_variable,
                      time_variable, co_variables,
                      group_vars, study_data, meta_data, label_col) {
  ds1 <- prep_prepare_dataframes(study_data, meta_data)
  invisible(ds1)
}
environment(acc_test1) <- asNamespace("dataquieR")
# perform this inside the package (not needed for functions that have been
# integrated with the package already)

environment(acc_test2) <- asNamespace("dataquieR")
# perform this inside the package (not needed for functions that have been
```

```
# integrated with the package already)
acc_test3 <- function(resp_variable, aux_variable, time_variable,
                      co_variables, group_vars, study_data, meta_data,
                      label_col) {
  prep_prepare_dataframes()
  invisible(ds1)
}
acc_test4 <- function(resp_variable, aux_variable, time_variable,
                      co_variables, group_vars, study_data, meta_data,
                      label_col) {
  ds1 <- prep_prepare_dataframes(study_data, meta_data)
  invisible(ds1)
}
environment(acc_test3) <- asNamespace("dataquieR")
# perform this inside the package (not needed for functions that have been
# integrated with the package already)

environment(acc_test4) <- asNamespace("dataquieR")
# perform this inside the package (not needed for functions that have been
# integrated with the package already)
meta_data <- prep_get_data_frame("meta_data")
study_data <- prep_get_data_frame("study_data")
try(acc_test1())
try(acc_test2())
acc_test1(study_data = study_data)
try(acc_test1(meta_data = meta_data))
try(acc_test2(study_data = 12, meta_data = meta_data))
print(head(acc_test1(study_data = study_data, meta_data = meta_data)))
print(head(acc_test2(study_data = study_data, meta_data = meta_data)))
print(head(acc_test3(study_data = study_data, meta_data = meta_data)))
print(head(acc_test3(
  study_data = study_data, meta_data = meta_data,
  label_col = LABEL
)))
print(head(acc_test4(study_data = study_data, meta_data = meta_data)))
print(head(acc_test4(
  study_data = study_data, meta_data = meta_data,
  label_col = LABEL
)))
try(acc_test2(study_data = NULL, meta_data = meta_data))

## End(Not run)
```

`prep_purge_data_frame_cache`

Clear data frame cache

Description

Clear data frame cache

Usage

```
prep_purge_data_frame_cache()
```

Value

nothing

See Also

Other data-frame-cache: prep_add_data_frames(), prep_get_data_frame(), prep_list_dataframes(), prep_load_folder_with_metadata(), prep_load_workbook_like_file(), prep_remove_from_cache()

---

prep_realize_ggplot *Materialize a lazy* ggplot

Description

Evaluate the stored expression in its lean environment and cache the resulting ggplot object in the current R session, if enabled using the option dataquieR.lazy_plots_cache.

Usage

```
prep_realize_ggplot(x)
```

Arguments

x	a dq_lazy_ggplot object.

Value

A ggplot object.

---

prep_register_progress_hook *Register a hook function for progresses in computation/rendering*

Description

The order hooks are called is not defined.

Usage

```
prep_register_progress_hook(type = c("progress", "init", "msg"), hook)
```

Arguments

type	character what event
hook	function hook function

Value

character a handle for de-registering, invisible

---

prep_remove_from_cache

Remove a specified element from the data frame cache

Description

Remove a specified element from the data frame cache

Usage

```
prep_remove_from_cache(object_to_remove)
```

Arguments

object_to_remove
: character name of the object to be removed as character string (quoted), or character vector containing the names of the objects to remove from the cache

Value

nothing

See Also

Other data-frame-cache: prep_add_data_frames(), prep_get_data_frame(), prep_list_dataframes(), prep_load_folder_with_metadata(), prep_load_workbook_like_file(), prep_purge_data_frame_cache()

Examples

```
## Not run:
prep_load_workbook_like_file("meta_data_v2") # load metadata in the cache
ls(.dataframe_environment()) # get the list of dataframes in the cache

# remove cross-item_level from the cache
prep_remove_from_cache("cross-item_level")

# remove dataframe_level and expected_id from the cache
prep_remove_from_cache(c("dataframe_level", "expected_id"))

# remove missing_table and segment_level from the cache
```

```
x <- c("missing_table", "segment_level")
prep_remove_from_cache(x)

## End(Not run)
```

---

prep_render_pie_chart_from_summaryclasses_ggplot2
Create a ggplot2 *pie chart*

Description

needs htmltools

Usage

```
prep_render_pie_chart_from_summaryclasses_ggplot2(
  data,
  meta_data = "item_level"
)
```

Arguments

data	data as returned by prep_summary_to_classes but summarized by one column (currently, we support indicator_metric, STUDY_SEGMENT, and VAR_NAMES)
meta_data	meta_data

Value

a htmltools compatible object or NULL, if package is missing

See Also

Other summary_functions: prep_combine_report_summaries(), prep_extract_classes_by_functions(), prep_extract_summary(), prep_extract_summary.dataquieR_result(), prep_extract_summary.dataquieR_resul
prep_render_pie_chart_from_summaryclasses_plotly(), prep_summary_to_classes()

prep_render_pie_chart_from_summaryclasses_plotly

Create a `plotly` *pie chart*

Description

Create a `plotly` pie chart

Usage

```
prep_render_pie_chart_from_summaryclasses_plotly(
  data,
  meta_data = "item_level"
)
```

Arguments

`data`	data as returned by `prep_summary_to_classes` but summarized by one column (currently, we support `indicator_metric`, `call_names`, `STUDY_SEGMENT`, and `VAR_NAMES`)
`meta_data`	meta_data

Value

a `htmltools` compatible object

See Also

Other summary_functions: `prep_combine_report_summaries()`, `prep_extract_classes_by_functions()`, `prep_extract_summary()`, `prep_extract_summary.dataquieR_result()`, `prep_extract_summary.dataquieR_resul`
`prep_render_pie_chart_from_summaryclasses_ggplot2()`, `prep_summary_to_classes()`

prep_robust_guess_data_type

Guess the data type of a vector

Description

Guess the data type of a vector

Usage

```
prep_robust_guess_data_type(x, k = 50, it = 200)
```

Arguments

x	a vector with characters
k	numeric sample size, if less than `floor(length(x) / (it/20))`, minimum sample size is 1.
it	integer number of iterations when taking samples

Value

a guess of the data type of `x`. An attribute `orig_type` is also attached to give the more detailed guess returned by `readr::guess_parser()`.

Algorithm

This function takes `x` and tries to guess the data type of random subsets of this vector using `readr::guess_parser()`. The RNG is initialized with a constant, so the function stays deterministic. It does such sub-sample based checks `it` times, the majority of the detected datatype determines the guessed data type.

See Also

`prep_datatype_from_data()`

`prep_save_report` *Save a* `dq_report2`

Description

Save a `dq_report2`

Usage

```
prep_save_report(report, file, compression_level = 3)
```

Arguments

report	dataquieR_resultset2 the report
file	character the file name to write to
compression_level	integer from=0 to=9. Compression level. 9 is very slow.

Value

`invisible(NULL)`

prep_scalelevel_from_data_and_metadata

Heuristics to amend a SCALE_LEVEL column and a UNIT column in the metadata

Description

...if missing

Usage

```
prep_scalelevel_from_data_and_metadata(
  resp_vars = lifecycle::deprecated(),
  study_data,
  item_level = "item_level",
  label_col = LABEL,
  meta_data = item_level,
  meta_data_v2
)
```

Arguments

resp_vars	variable the names of the measurement variables, if missing or NULL, all variables will be checked
study_data	data.frame the data frame that contains the measurements
item_level	data.frame the data frame that contains metadata attributes of study data
label_col	variable attribute the name of the column in the metadata with labels of variables
meta_data	data.frame old name for item_level
meta_data_v2	character path to workbook like metadata file, see prep_load_workbook_like_file for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using prep_purge_data_frame_cache, if you specify meta_data_v2.

Details

resp_vars is deprecated for this function. The function always addresses all variables.

Value

data.frame modified metadata

Examples

```
## Not run:
prep_load_workbook_like_file("meta_data_v2")
prep_scalelevel_from_data_and_metadata(study_data = "study_data")

## End(Not run)
```

prep_set_backend *Change the back-end of a report*

Description

with this function, you can move a report from/to a `storr` storage.

Usage

```
prep_set_backend(r, storr_factory = NULL, amend = FALSE)
```

Arguments

`r`	dataquieR_resultset2 the report
`storr_factory`	`storr` the `storr` storage or `NULL`, to move the report fully back into the RAM.
`amend`	logical if there is already data in.`storr_factory`, use it anyways – unsupported, so far!

Value

dataquieR_resultset2 but now with the desired back-end

prep_study2meta *Guess a metadata data frame from study data.*

Description

Guess a minimum metadata data frame from study data. Minimum required variable attributes are:

Usage

```
prep_study2meta(
  study_data,
  level = c(VARATT_REQUIRE_LEVELS$REQUIRED, VARATT_REQUIRE_LEVELS$RECOMMENDED),
  cumulative = TRUE,
  convert_factors = FALSE,
  guess_missing_codes = getOption("dataquieR.guess_missing_codes",
    dataquieR.guess_missing_codes_default),
  guess_character = getOption("dataquieR.guess_character", default =
    dataquieR.guess_character_default)
)
```

Arguments

- `study_data` data.frame study data inspected to derive metadata. Only data frames are supported, not URLs or file names.
- `level` enum levels to provide (see also VARATT_REQUIRE_LEVELS)
- `cumulative` logical include attributes of all levels up to level
- `convert_factors` logical convert factor columns to coded integers. if selected, then also the study data will be updated and returned.
- `guess_missing_codes` logical try to guess missing codes from the data
- `guess_character` logical guess a data type for character columns based on the values

Details

```
dataquieR:::util_get_var_att_names_of_level(VARATT_REQUIRE_LEVELS$REQUIRED)
#>            VAR_NAMES            DATA_TYPE   MISSING_LIST_TABLE
#>          "VAR_NAMES"          "DATA_TYPE" "MISSING_LIST_TABLE"
```

The function also tries to detect missing codes.

Value

a meta_data data frame or a list with study data and metadata, if `convert_factors == TRUE`.

Examples

```
## Not run:
dataquieR::prep_study2meta(Orange, convert_factors = FALSE)

## End(Not run)
```

---

prep_summary_to_classes

Classify metrics from a report summary table

Description

Classify metrics from a report summary table

Usage

```
prep_summary_to_classes(report_summary)
```

Arguments

- `report_summary` `list()` as returned by `prep_extract_summary()`

Value

data.frame classes for the report summary table, long format

See Also

Other summary_functions: prep_combine_report_summaries(), prep_extract_classes_by_functions(), prep_extract_summary(), prep_extract_summary.dataquieR_result(), prep_extract_summary.dataquieR_resul
prep_render_pie_chart_from_summaryclasses_ggplot2(), prep_render_pie_chart_from_summaryclasses_plotl

---

prep_title_escape *Prepare a label as part of a title text for* RMD *files*

Description

Prepare a label as part of a title text for RMD files

Usage

```
prep_title_escape(s, html = FALSE)
```

Arguments

s	the label
html	prepare the label for direct HTML output instead of RMD

Value

the escaped label

---

prep_undisclose *Remove data disclosing details*

Description

new function: no warranty, so far.

Usage

```
prep_undisclose(x, cores)
```

Arguments

x	an object to un-disclose, a
cores	can be an integer with a number of cores to use. if not specified, the function uses the default cluster, if available and falls back to serial un-disclosing, otherwise.

Value

undisclosed object

---

prep_unsplit_val_tabs *Combine all missing and value lists to one big table*

Description

Combine all missing and value lists to one big table

Usage

```
prep_unsplit_val_tabs(meta_data = "item_level", val_tab = NULL)
```

Arguments

meta_data	data.frame item level meta data to be used, defaults to "item_level"
val_tab	character name of the table being created: This table will be added to the data frame cache (or overwritten). If NULL, the table will only be returned

Value

data.frame the combined table

---

prep_valuelabels_from_data *Get value labels from data*

Description

Detects factors and converts them to compatible metadata/study data.

Usage

```
prep_valuelabels_from_data(resp_vars = colnames(study_data), study_data)
```

Arguments

resp_vars	variable list the names of variables to inspect in study_data. If missing, all variables in study_data will be used.
study_data	data.frame study data inspected to derive metadata. Only data frames are supported, not URLs or file names.

Value

a list with:

- VALUE_LABELS: vector of value labels and modified study data
- ModifiedStudyData: study data with factors as integers

Examples

```
## Not run:
dataquieR::prep_datatype_from_data(iris)

## End(Not run)
```

---

print.dataquieR_report_by

Print a report bundle created by dq_report_by()

Description

Each nested report is rendered into its own subdirectory and an overview is created at index.html. A disk-backed result contains no computed reports; it refers to the .dq2 files in its original output directory.

Usage

```
## S3 method for class 'dataquieR_report_by'
print(x, dir, output_dir, view = TRUE, force_overwrite = FALSE, ...)
```

Arguments

x	a dq_report_by() result.
dir	character output directory. Alias for output_dir.
output_dir	character output directory. If both aliases are omitted, a disk-backed bundle reuses its stored directory and an in-memory bundle uses a temporary directory.
view	logical open the bundle overview after rendering.
force_overwrite	logical overwrite existing rendered sub-reports.
...	arguments forwarded to print.dataquieR_resultset2(), notably cores and block_load_factor.

Value

x, invisibly.

print.dataquieR_result

Print a dataquieR result returned by dq_report2

Description

Print a dataquieR result returned by dq_report2

Usage

```
## S3 method for class 'dataquieR_result'
print(x, ...)
```

Arguments

x	list a dataquieR result from dq_report2 or `util_eval_to_dataquieR_result`
...	passed to print. Additionally, the argument `slot` may be passed to print only specific sub-results.

Value

see print

See Also

`util_pretty_print()`

print.dataquieR_resultset

Generate a RMarkdown-based report from a dataquieR report

Description

Generate a RMarkdown-based report from a dataquieR report

Usage

```
## S3 method for class 'dataquieR_resultset'
print(...)
```

Arguments

...	deprecated

Value

deprecated

print.dataquieR_resultset2

Generate a HTML-based report from a dataquieR report

Description

Generate a HTML-based report from a dataquieR report

Usage

```
## S3 method for class 'dataquieR_resultset2'
print(
  x,
  dir,
  view = TRUE,
  disable_plotly = FALSE,
  block_load_factor = getOption("dataquieR.print_block_load_factor",
    dataquieR.print_block_load_factor_default),
  advanced_options = list(),
  html_table_backend = getOption("dataquieR.html_table_backend",
    dataquieR.html_table_backend_default),
  dashboard = NA,
  force_overwrite = FALSE,
  ...,
  cores = list(mode = "socket", logging = FALSE, cpus = util_detect_cores(),
    load.balancing = TRUE),
  output_dir = NULL
)
```

Arguments

x	dataquieR report v2.
dir	character directory to store the rendered report's files, a temporary one, if omitted. Directory will be created, if missing
view	logical display the report
disable_plotly	logical do not use `plotly`, even if installed
block_load_factor	numeric see dataquieR.print_block_load_factor
advanced_options	list options to set during report computation, see `options()`
html_table_backend	character HTML table backend to use for rendering. One of `"auto"`, `"DT2"`, or `"DT"`.
dashboard	logical dashboard mode: `TRUE`: create a dashboard only, `FALSE`: don't create a dashboard at all, `NA` or missing: create a "normal" report with a dashboard included.

force_overwrite
: logical force to overwrite dir, even if it exists

...
: additional arguments:

cores
: integer number of cpu cores to use or a named list with arguments for the internal parallel backend (util_parallel_start) or NULL, if parallel has already been started by the caller. Can also be a cluster. In RStudio, caller-created clusters may hang during HTML report finalization while thumbnail and embedded HTML files are written. Prefer passing a number, e.g., cores = 4, or a backend list, e.g., cores = list(mode = "socket", cpus = 4), so dataquieR can create and stop the cluster itself. Alternatively run the same command outside RStudio (on Windows start R from the Start menu, on macOS open Terminal and run R, on Linux run R in a terminal). To force a caller-owned cluster in RStudio, set options(dataquieR.force_rstudio_user_cluster = TRUE) or pass advanced_options = list(dataquieR.force_rstudio_user_cluster = TRUE).

output_dir
: character alias for dir.

Value

file names of the generated report's HTML files

---

print.dataquieR_summary
Print a dataquieR *summary*

Description

Print a dataquieR summary

Usage

```
## S3 method for class 'dataquieR_summary'
print(
  x,
  ...,
  grouped_by = c("call_names", "indicator_metric"),
  dont_print = FALSE,
  folder_of_report = NULL,
  vars_to_include = c("study")
)
```

Arguments

x
: the dataquieR summary, see summary() and dq_report2()

...
: not yet used

grouped_by
: define the columns of the resulting matrix. It can be either "call_names", one column per function, or "indicator_metric", one column per indicator or both c("call_names", "indicator_metric"). The last combination is the default

`dont_print` suppress the actual printing, just return a printable object derived from `x`

`folder_of_report` a named vector with the location of variable and `call_names`

`vars_to_include` `"study"`, `"ssi"`, `"variable_group"`, or a combination of these scopes.

Value

invisible html object

`print.dataquieR_translated` `print` *implementation for the class* `dataquieR_translated`

Description

`dataquieR`'s translated texts featuring access to the language keys, still.

Usage

```
## S3 method for class 'dataquieR_translated'
print(x, ...)
```

Arguments

`x` `dataquieR_translated` object to print

`...` passed to base::print

Value

as print

See Also

base::print

print.DataSlot *Print a* DataSlot *object*

Description

Print a DataSlot object

Usage

```
## S3 method for class 'DataSlot'
print(x, ...)
```

Arguments

x	the object
...	not used

Value

see print

print.FlaggedStudyData *print implementation for the class* FlaggedStudyData

Description

Use this function to print results objects of the class FlaggedStudyData.

Usage

```
## S3 method for class 'FlaggedStudyData'
print(x, ...)
```

Arguments

x	FlaggedStudyData objects to print
...	not used, yet

Value

the printed object

See Also

base::print

print.interval — *print implementation for the class* `interval`

Description

such objects, for now, only occur in `RECCap` rules, so this function is meant for internal use, mostly – for now.

Usage

```
## S3 method for class 'interval'
print(x, ...)
```

Arguments

`x`	`interval` objects to print
`...`	not used yet

Value

the printed object

See Also

base::print

print.list — *print a list of* `dataquieR_result` *objects*

Description

print a list of `dataquieR_result` objects

Usage

```
## S3 method for class 'list'
print(x, ...)
```

Arguments

`x`	`list()` only, if all elements inherit from dataquieR_result, this implementation runs
`...`	passed to other implementations

Value

undefined

print.master_result *Print a* master_result *object*

Description

Print a master_result object

Usage

```
## S3 method for class 'master_result'
print(x, template = "default", ...)
```

Arguments

x	the object
template	the template for the iframes, not used, so far.
...	not used

Value

invisible(NULL)

print.numeric_with_unit *Print a number with unit*

Description

Print a number with unit

Usage

```
## S3 method for class 'numeric_with_unit'
print(x, ...)
```

Arguments

x	number with unit
...	not used

Value

invisible(x)

print.ReportSummaryTable

print implementation for the class `ReportSummaryTable`

Description

Use this function to print results objects of the class `ReportSummaryTable`.

Usage

```
## S3 method for class 'ReportSummaryTable'
print(
  x,
  relative = lifecycle::deprecated(),
  dt = FALSE,
  fillContainer = FALSE,
  displayValues = FALSE,
  view = TRUE,
  drop = getOption("dataquieR.droplevels_ReportSummaryTable",
    dataquieR.droplevels_ReportSummaryTable_default),
  ...,
  flip_mode = "auto"
)
```

Arguments

`x`	`ReportSummaryTable` objects to print
`relative`	deprecated
`dt`	logical use the selected DT2 or DT table backend, if installed
`fillContainer`	logical if `dt` is `TRUE`, control table size, filling the available widget container when enabled.
`displayValues`	logical if `dt` is `TRUE`, also display the actual values
`view`	logical if `view` is `FALSE`, do not print but return the output, only
`drop`	logical if `drop` is `FALSE`, keep unused levels, see dataquieR.droplevels_ReportSummaryTable
`...`	not used, yet
`flip_mode`	enum default | flip | noflip | auto. Should the plot be in default orientation, flipped, not flipped or auto-flipped. Not all options are always supported. In general, this con be controlled by setting the `roptions(dataquieR.flip_mode = ...)`. If called from `dq_report`, you can also pass `flip_mode` to all function calls or set them specifically using `specific_args`.

Value

the printed object

See Also

base::print

---

print.Slot *Print a* `Slot` *object*

Description

displays all warnings and stuff. then it prints `x`.

Usage

```
## S3 method for class 'Slot'
print(x, ...)
```

Arguments

`x`	the object
`...`	not used

Value

calls the next print method

---

print.StudyDataSlot *Print a* `StudyDataSlot` *object*

Description

Print a `StudyDataSlot` object

Usage

```
## S3 method for class 'StudyDataSlot'
print(x, ...)
```

Arguments

`x`	the object
`...`	not used

Value

see print

print.TableSlot *Print a* TableSlot *object*

Description

Print a TableSlot object

Usage

```
## S3 method for class 'TableSlot'
print(x, ...)
```

Arguments

x	the object
...	not used

Value

see print

print.util_pairs_ggplot_panels *Print method for* util_pairs_ggplot_panels *objects*

Description

Print method for util_pairs_ggplot_panels objects

Usage

```
## S3 method for class 'util_pairs_ggplot_panels'
print(x, ...)
```

Arguments

x	An object of class util_pairs_ggplot_panels.
...	Ignored.

Value

The input object, invisibly.

progress_init_fkt *function to call on progress initialization*

Description

has one argument, n, reporting the number of steps in the current job. needed, e.g., by packages, such as progressr.

See Also

Other options: dataquieR, dataquieR.CONDITIONS_LEVEL_TRHESHOLD, dataquieR.CONDITIONS_WITH_STACKTRACE, dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, dataquieR.ERRORS_WITH_CALLER, dataquieR.GAM_for_LOESS, dataquieR.MAHALANOBIS_THRESHOLD, dataquieR.MAX_LABEL_LEN, dataquieR.MAX_LONG_LABEL_LEN, dataquieR.MAX_VALUE_LABEL_LEN, dataquieR.MESSAGES_WITH_CALLER, dataquieR.MULTIVARIATE_OUTLIER_CHECK, dataquieR.VALUE_LABELS_htmlescaped, dataquieR.WARNINGS_WITH_CALLER, dataquieR.acc_loess.exclude_consta dataquieR.acc_loess.mark_time_points, dataquieR.acc_loess.min_bw, dataquieR.acc_loess.min_obs_in_subgr dataquieR.acc_loess.min_proportion, dataquieR.acc_loess.plot_format, dataquieR.acc_loess.plot_observat dataquieR.acc_margins_num, dataquieR.acc_margins_sort, dataquieR.acc_multivariate_outlier.scale, dataquieR.acc_shape_or_scale_ci, dataquieR.col_con_con_empirical, dataquieR.col_con_con_logical, dataquieR.convert_to_list_for_lapply, dataquieR.debug, dataquieR.des_summary_hard_lim_remove, dataquieR.dontwrapresults, dataquieR.droplevels_ReportSummaryTable, dataquieR.dt_adjust, dataquieR.fix_column_type_on_read, dataquieR.fix_var_name_prefixes_label, dataquieR.flip_mode, dataquieR.force_item_specific_missing_codes, dataquieR.force_label_col, dataquieR.force_rstudio_user_c dataquieR.grading_formats, dataquieR.grading_rulesets, dataquieR.guess_character, dataquieR.guess_missing_codes, dataquieR.html_table_backend, dataquieR.ignore_empty_vars, dataquieR.json.schema.strict.mode, dataquieR.lang, dataquieR.lazy_plots, dataquieR.lazy_plots_cache, dataquieR.lazy_plots_gg_compatibility, dataquieR.locale, dataquieR.max_cat_resp_var_levels_in_plot, dataquieR.max_group_var_levels_in_plot, dataquieR.max_group_var_levels_with_violins, dataquieR.min_group_var_levels, dataquieR.min_obs_per_group_var_in_plot, dataquieR.min_time_points_for dataquieR.no_geom_count_in_bin, dataquieR.no_overall_in_bin, dataquieR.non_disclosure, dataquieR.old_factor_handling, dataquieR.old_type_adjust, dataquieR.parallel.cpus, dataquieR.parallel.load.balancing, dataquieR.parallel.mode, dataquieR.parallel.show.info, dataquieR.precomputeStudyData, dataquieR.print_block_load_factor, dataquieR.progress_fkt_default, dataquieR.progress_msg_fkt_default, dataquieR.psychometric_cor_pairs, dataquieR.resume_checkpoint, dataquieR.resume_print, dataquieR.scale_level_heuristics_control_binaryrecodelimit, dataquieR.scale_level_heuristics_control_metriclevels, dataquieR.study_data_cache_max, dataquieR.study_data_cache_metrics, dataquieR.study_data_cache_metrics_env, dataquieR.study_data_cache dataquieR.study_data_colnames_case_sensitive, dataquieR.testdebug, dataquieR.traceback, dataquieR.type_adjust_parallel

pro_applicability_matrix *Check applicability of DQ functions on study data*

Description

Checks applicability of DQ functions based on study data and metadata characteristics

Usage

```
pro_applicability_matrix(
  study_data,
  item_level = "item_level",
  split_segments = FALSE,
  label_col,
  max_vars_per_plot = 20,
  meta_data_segment,
  meta_data_dataframe,
  flip_mode = "noflip",
  meta_data_v2,
  meta_data = item_level,
  segment_level,
  dataframe_level
)
```

Arguments

`study_data` data.frame the data frame that contains the measurements

`item_level` data.frame the data frame that contains metadata attributes of study data

`split_segments` logical return one matrix per study segment

`label_col` variable attribute the name of the column in the metadata with labels of variables

`max_vars_per_plot` integer from=0. The maximum number of variables per single plot.

`meta_data_segment` data.frame – optional: Segment level metadata

`meta_data_dataframe` data.frame the data frame that contains the metadata for the data frame level

`flip_mode` enum default | flip | noflip | auto. Should the plot be in default orientation, flipped, not flipped or auto-flipped. Not all options are always supported. In general, this con be controlled by setting the `roptions(dataquieR.flip_mode = ...)`. If called from `dq_report`, you can also pass `flip_mode` to all function calls or set them specifically using `specific_args`.

`meta_data_v2` character path to workbook like metadata file, see `prep_load_workbook_like_file` for details. **ALL LOADED DATAFRAMES WILL BE PURGED**, using `prep_purge_data_frame_cache`, if you specify `meta_data_v2`.

`meta_data` data.frame old name for `item_level`

`segment_level` data.frame alias for `meta_data_segment`

`dataframe_level` data.frame alias for `meta_data_dataframe`

Details

This is a preparatory support function that compares study data with associated metadata. A prerequisite of this function is that the no. of columns in the study data complies with the no. of rows in the metadata.

For each existing R-implementation, the function searches for necessary static metadata and returns a heatmap like matrix indicating the applicability of each data quality implementation.

In addition, the data type defined in the metadata is compared with the observed data type in the study data.

Value

a list with:

- `SummaryTable`: data frame about the applicability of each indicator function (each function in a column). its integer values can be one of the following four categories: 0. Non-matching datatype + Incomplete metadata, 1. Non-matching datatype + complete metadata, 2. Matching datatype + Incomplete metadata, 3. Matching datatype + complete metadata, 4. Not applicable according to data type
- `ApplicabilityPlot`: ggplot2::ggplot2 heatmap plot, graphical representation of `SummaryTable`
- `ApplicabilityPlotList`: list of plots per (maybe artificial) segment
- `ReportSummaryTable`: data frame underlying `ApplicabilityPlot`

PSYCHOMETRIC_ANT *Admissible range for the psychometric-antonyms index*

Description

In cross-item metadata, this column defines the admissible interval for a computed psychometric-antonyms index. The index is the within-person Pearson correlation across item pairs whose study-wide Pearson correlation is below the negative threshold set by dataquieR.psychometric_cor_pairs. Values outside the interval indicate potentially careless responding.

Cross-item metadata attribute name.

See Also

meta_data_cross_item

Other meta_data_cross_item: `ASSOCIATION_DIRECTION`, `ASSOCIATION_FORM`, `ASSOCIATION_METRIC`, `ASSOCIATION_RANGE`, `CHECK_ID`, `CHECK_LABEL`, `COMPUTED_VARIABLE_ROLES`, `CONTRADICTION_TERM`, `CONTRADICTION_TYPE`, `DATA_PREPARATION`, `IRV`, `MAHALANOBIS_RATIO`, `MAHALANOBIS_THRESHOLD`, `MAXIMUM_LONG_STRING`, `MISS_RESP`, `MULTIVARIATE_OUTLIER_CHECK`, `MULTIVARIATE_OUTLIER_CHECKTYPE`, `PSYCHOMETRIC_SYN`, `RELCOMPL_SPEED`, `REPEATED_MEASURES_METRIC`, `REPEATED_MEASURES_METRIC_SETTING`, `REPEATED_MEASURES_REFERENCE`, `RESPT_PER_ITEM`, `SCALE_ACRONYM`, `SCALE_NAME`, `SUM_ATTENTION_CHECK_ITEMS`, `TOTRESPT`, `VARIABLE_LIST`, `VARIABLE_LIST_ORDER`, `meta_data_computation`, `meta_data_cross_item`

Other SSI: `COMPUTED_VARIABLE_ROLES`, `IRV`, `MAHALANOBIS_RATIO`, `MAXIMUM_LONG_STRING`, `MISS_RESP`, `PSYCHOMETRIC_SYN`, `RELCOMPL_SPEED`, `RESPT_PER_ITEM`, `SUM_ATTENTION_CHECK_ITEMS`, `TOTRESPT`

PSYCHOMETRIC_SYN *Admissible range for the psychometric-synonyms index*

Description

In cross-item metadata, this column defines the admissible interval for a computed psychometric-synonyms index. The index is the within-person Pearson correlation across item pairs whose study-wide Pearson correlation is above the threshold set by dataquieR.psychometric_cor_pairs. Values outside the interval indicate potentially careless responding.

Cross-item metadata attribute name.

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

Other SSI: COMPUTED_VARIABLE_ROLES, IRV, MAHALANOBIS_RATIO, MAXIMUM_LONG_STRING, MISS_RESP, PSYCHOMETRIC_ANT, RELCOMPL_SPEED, RESPT_PER_ITEM, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT

rbind.ReportSummaryTable *Combine* ReportSummaryTable *outputs*

Description

Using this rbind implementation, you can combine different heatmap-like results of the class ReportSummaryTable.

Usage

```
## S3 method for class 'ReportSummaryTable'
rbind(...)
```

Arguments

...	ReportSummaryTable objects to combine.

See Also

base::rbind.data.frame

RELCOMPL_SPEED *Cross-item level metadata attribute name*

Description

Cross-item metadata attribute name.

Cross-item metadata attribute name.

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

Other SSI: COMPUTED_VARIABLE_ROLES, IRV, MAHALANOBIS_RATIO, MAXIMUM_LONG_STRING, MISS_RESP, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RESPT_PER_ITEM, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT

REPEATED_MEASURES_METRIC *Cross-item level metadata attribute name*

Description

Specifies the metric used to evaluate repeated measurements.

Usage

```
REPEATED_MEASURES_METRIC
```

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC_SETTING, REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

REPEATED_MEASURES_METRIC_SETTING

Cross-item level metadata attribute name

Description

Optional setting identifier(s) for repeated-measurement metrics. If multiple metrics are requested, values are matched in the same order as REPEATED_MEASURES_METRIC.

Usage

```
REPEATED_MEASURES_METRIC_SETTING
```

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_REFERENC RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

REPEATED_MEASURES_REFERENCE

Cross-item level metadata attribute name

Description

Defines the measurement variable to be treated as the reference measurement. Empty values indicate repeated measurements without a designated reference.

Usage

```
REPEATED_MEASURES_REFERENCE
```

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_S RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

resnames — *Return names of result slots (e.g., 3rd dimension of dataquieR results)*

Description

Return names of result slots (e.g., 3rd dimension of dataquieR results)

Usage

```
resnames(x)
```

Arguments

x	the objects

Value

character vector with names

resnames.dataquieR_resultset2 — *Return names of result slots (e.g., 3rd dimension of dataquieR results)*

Description

Return names of result slots (e.g., 3rd dimension of dataquieR results)

Usage

```
## S3 method for class 'dataquieR_resultset2'
resnames(x)
```

Arguments

x	the objects

Value

character vector with names

RESPT_PER_ITEM *Cross-item level metadata attribute name*

Description

Cross-item metadata attribute name.

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_S REPEATED_MEASURES_REFERENCE, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

Other SSI: COMPUTED_VARIABLE_ROLES, IRV, MAHALANOBIS_RATIO, MAXIMUM_LONG_STRING, MISS_RESP, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT

SCALE_ACRONYM *Cross-item level metadata attribute name*

Description

Cross-item level metadata attribute name

Usage

```
SCALE_ACRONYM
```

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_S REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

SCALE_LEVELS *Scale Levels*

Description

Scale Levels of Study Data according to `Stevens's` Typology:
In the metadata, the following entries are allowed for the variable attribute SCALE_LEVEL:

Usage

```
SCALE_LEVELS
```

Details

- `nominal` for categorical variables
- `ordinal` for ordinal variables (i.e., comparison of values is possible)
- `interval` for interval scales, i.e., distances are meaningful
- `ratio` for ratio scales, i.e., ratios are meaningful
- `na` for variables, that contain e.g. unstructured texts, `json`, `xml`, ... to distinguish them from variables, that still need to have the `SCALE_LEVEL` estimated by `prep_scalelevel_from_data_and_metadata()`

Examples:

- sex, eye color – `nominal`
- income group, education level – `ordinal`
- temperature in degree Celsius – `interval`
- body weight, temperature in Kelvin – `ratio`

See Also

Wikipedia

SCALE_NAME *Cross-item level metadata attribute name*

Description

Cross-item level metadata attribute name

Usage

```
SCALE_NAME
```

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_S REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

---

SEGMENT_ID_REF_TABLE *Segment level metadata attribute name*

Description

The name of the data frame containing the reference IDs to be compared with the IDs in the targeted segment.

Usage

```
SEGMENT_ID_REF_TABLE
```

See Also

meta_data_segment

SEGMENT_ID_TABLE *Deprecated segment level metadata attribute name*

Description

The name of the data frame containing the reference IDs to be compared with the IDs in the targeted segment.

Usage

```
SEGMENT_ID_TABLE
```

Details

Please use SEGMENT_ID_REF_TABLE

SEGMENT_ID_VARS *Segment level metadata attribute name*

Description

All variables that are to be used as one single ID variable (combined key) in a segment.

Usage

```
SEGMENT_ID_VARS
```

See Also

meta_data_segment

SEGMENT_MISS *Segment level metadata attribute name*

Description

`true` or `false` to suppress crude segment missingness output (`Completeness/Misg. Segments` in the report). Defaults to compute the output, if more than one segment is available in the item-level metadata.

Usage

```
SEGMENT_MISS
```

See Also

meta_data_segment

SEGMENT_PART_VARS *Segment level metadata attribute name*

Description

The name of the segment participation status variable

Usage

```
SEGMENT_PART_VARS
```

See Also

meta_data_segment

SEGMENT_RECORD_CHECK *Segment level metadata attribute name*

Description

The type of check to be conducted when comparing the reference ID table with the IDs in a segment.

Usage

```
SEGMENT_RECORD_CHECK
```

See Also

meta_data_segment

SEGMENT_RECORD_COUNT *Segment level metadata attribute name*

Description

Number of expected data records in each segment. numeric. Check only conducted if number entered

Usage

```
SEGMENT_RECORD_COUNT
```

See Also

meta_data_segment

SEGMENT_UNIQUE_ID *Segment level metadata attribute name*

Description

Segment level metadata attribute name

Usage

```
SEGMENT_UNIQUE_ID
```

See Also

DF_UNIQUE_ID

meta_data_segment

SEGMENT_UNIQUE_ROWS *Segment level metadata attribute name*

Description

Specifies whether identical data is permitted across rows in a segment (excluding ID variables)

Usage

```
SEGMENT_UNIQUE_ROWS
```

See Also

meta_data_segment

SPLIT_CHAR *Character used by default as a separator in metadata such as missing codes*

Description

This 1 character is according to our metadata concept "|".

Usage

```
SPLIT_CHAR
```

study_data *Data frame with the study data whose quality is being assessed*

Description

Study data is expected in wide format. If should contain all variables for all segments in one large table, even, if some variables are not measured for all observational utils (study participants).

summary.dataquieR_resultset

Summarize a dataquieR report

Description

Deprecated

Usage

```
## S3 method for class 'dataquieR_resultset'
summary(...)
```

Arguments

`...`	Deprecated

Value

Deprecated

summary.dataquieR_resultset2

Generate a report summary table

Description

Generate a report summary table

Usage

```
## S3 method for class 'dataquieR_resultset2'
summary(
  object,
  aspect = c("applicability", "error", "anamat", "indicator_or_descriptor"),
  FUN,
  collapse = "\n<br />\n",
  ...
)
```

Arguments

`object`	a square result set
`aspect`	an aspect/problem category of results
`FUN`	function to apply to the cells of the result table
`collapse`	passed to `FUN`
`...`	not used

Value

a summary of a dataquieR report

Examples

```
## Not run:
util_html_table(summary(report),
  filter = "top", options = list(scrollCollapse = TRUE, scrollY = "75vh"),
  is_matrix_table = TRUE, rotate_headers = TRUE
)

## End(Not run)
```

SUM_ATTENTION_CHECK_ITEMS

Admissible range for the sum of attention-check errors

Description

In cross-item metadata, this column defines the admissible interval for the number of incorrect responses to attention-check items. Attention-check items are item-level metadata entries whose ITEM_TYPE starts with BOGUS: or INSTRUCTED: followed by pipe-separated expected values. An unexpected or missing study-data value counts as one incorrect response. Values outside the interval indicate potentially careless responding.

Cross-item metadata attribute name.

See Also

meta_data_cross_item, ITEM_TYPE

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_S REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, TOTRESPT, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

Other SSI: COMPUTED_VARIABLE_ROLES, IRV, MAHALANOBIS_RATIO, MAXIMUM_LONG_STRING, MISS_RESP, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, RESPT_PER_ITEM, TOTRESPT

TOTRESPT *Cross-item level metadata attribute name*

Description

Cross-item metadata attribute name.

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_S REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, VARIABLE_LIST, VARIABLE_LIST_ORDER, meta_data_computation, meta_data_cross_item

Other SSI: COMPUTED_VARIABLE_ROLES, IRV, MAHALANOBIS_RATIO, MAXIMUM_LONG_STRING, MISS_RESP, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, RESPT_PER_ITEM, SUM_ATTENTION_CHECK_ITEMS

to_basic.GeomPointrangeRobust *Internally used point-range*

Description

Internally used point-range

Usage

```
to_basic.GeomPointrangeRobust(data, prestats_data, layout, params, p, ...)
```

Arguments

data	the data returned by ggplot2::ggplot_build()
prestats_data	the data before statistics are computed.
layout	the panel layout.
params	parameters for the geom, statistic, and 'constant' aesthetics
p	a ggplot2 object (the conversion may depend on scales, for instance).
...	currently ignored

UNITS — *Valid unit symbols according to* units::valid_udunits()

Description

like m, g, N, ...

See Also

Other UNITS: UNIT_IS_COUNT, UNIT_PREFIXES, UNIT_PREFIX_FACTORS, UNIT_SOURCES, WELL_KNOWN_META_VARIABLE_NA

UNIT_IS_COUNT — *Is a unit a count according to* units::valid_udunits()

Description

see column def, therein

Details

like %, ppt, ppm

See Also

Other UNITS: UNITS, UNIT_PREFIXES, UNIT_PREFIX_FACTORS, UNIT_SOURCES, WELL_KNOWN_META_VARIABLE_NAMES

UNIT_PREFIXES — *Valid unit prefixes according to* units::valid_udunits_prefixes()

Description

like k, m, M, c, ...

See Also

Other UNITS: UNITS, UNIT_IS_COUNT, UNIT_PREFIX_FACTORS, UNIT_SOURCES, WELL_KNOWN_META_VARIABLE_NAMES

UNIT_PREFIX_FACTORS *Factors related to unit prefixes* units::valid_udunits_prefixes()

Description

named numeric vector

Details

translates k, m, M, c, ... to 1000, 0.001, ...

See Also

Other UNITS: UNITS, UNIT_IS_COUNT, UNIT_PREFIXES, UNIT_SOURCES, WELL_KNOWN_META_VARIABLE_NAMES

UNIT_SOURCES *Maturity stage of a unit according to* units::valid_udunits()

Description

see column source_xml therein, i.e., base, derived, accepted, or common

See Also

Other UNITS: UNITS, UNIT_IS_COUNT, UNIT_PREFIXES, UNIT_PREFIX_FACTORS, WELL_KNOWN_META_VARIABLE_NAMES

value/missing-lists *Data frame with labels for missing- and jump-codes #' Metadata about value and missing codes*

Description

data.frame with the following columns:

- CODE_VALUE: numeric | DATETIME Missing or categorical code (the number or date representing a missing/category)
- CODE_LABEL: character a label for the missing code or category
- CODE_CLASS: enum JUMP | MISSING. For missing lists: Class of the missing code.
- CODE_INTERPRET enum I | P | PL | R | BO | NC | O | UH | UO | NE. For missing lists: Class of the missing code according to AAPOR.
- resp_vars: character For missing lists: optional, if a missing code is specific for some variables, it is listed for each such variable with one entry in resp_vars, If NA, the code is assumed shared among all variables. For v1.0 metadata, you need to refer to VAR_NAMES here.

Item-level metadata columns such as CODE_LIST_TABLE and MISSING_LIST_TABLE refer to such tables by their data-frame cache names. If the complete metadata workbook is loaded with prep_load_workbook_like_file() or passed as meta_data_v2, the sheet name alone is sufficient, e.g., "tab1". If only the item-level metadata sheet is supplied and the referenced table is loaded separately, use the exact cached table name. For workbook sheets this is commonly a qualified workbook/sheet name such as "meta_data_v2.xlsx|tab1".

See Also

Online

com_item_missingness()

com_segment_missingness()

com_qualified_item_missingness()

com_qualified_segment_missingness()

con_inadmissible_categorical()

con_inadmissible_vocabulary()

MISSING_LIST_TABLE

VALUE_LABEL_TABLE

STANDARDIZED_VOCABULARY_TABLE

cause_label_df

VARATT_REQUIRE_LEVELS *Requirement levels of certain metadata columns*

Description

These levels are cumulatively used by the function prep_create_meta and related in the argument level therein.

Usage

```
VARATT_REQUIRE_LEVELS
```

Details

currently available:

- 'COMPATIBILITY' = "compatibility"
- 'REQUIRED' = "required"
- 'RECOMMENDED' = "recommended"
- 'OPTIONAL' = "optional"
- 'TECHNICAL' = "technical"

VARIABLE_LIST *Cross-item level metadata attribute name*

Description

Specifies a group of variables for multivariate analyses. Separated by |, please use variable names from VAR_NAMES or a label as specified in `label_col`, usually LABEL or LONG_LABEL.

Usage

```
VARIABLE_LIST
```

Details

if missing, `dataquieR` will create such IDs from CONTRADICTION_TERM, if specified.

See Also

meta_data_cross_item

Other meta_data_cross_item: `ASSOCIATION_DIRECTION`, `ASSOCIATION_FORM`, `ASSOCIATION_METRIC`, `ASSOCIATION_RANGE`, `CHECK_ID`, `CHECK_LABEL`, `COMPUTED_VARIABLE_ROLES`, `CONTRADICTION_TERM`, `CONTRADICTION_TYPE`, `DATA_PREPARATION`, `IRV`, `MAHALANOBIS_RATIO`, `MAHALANOBIS_THRESHOLD`, `MAXIMUM_LONG_STRING`, `MISS_RESP`, `MULTIVARIATE_OUTLIER_CHECK`, `MULTIVARIATE_OUTLIER_CHECKTYPE`, `PSYCHOMETRIC_ANT`, `PSYCHOMETRIC_SYN`, `RELCOMPL_SPEED`, `REPEATED_MEASURES_METRIC`, `REPEATED_MEASURES_METRIC_S`
`REPEATED_MEASURES_REFERENCE`, `RESPT_PER_ITEM`, `SCALE_ACRONYM`, `SCALE_NAME`, `SUM_ATTENTION_CHECK_ITEMS`, `TOTRESPT`, `VARIABLE_LIST_ORDER`, `meta_data_computation`, `meta_data_cross_item`

VARIABLE_LIST_ORDER *Cross-item level metadata attribute name*

Description

Cross-item level metadata attribute name

Usage

```
VARIABLE_LIST_ORDER
```

See Also

meta_data_cross_item

Other meta_data_cross_item: ASSOCIATION_DIRECTION, ASSOCIATION_FORM, ASSOCIATION_METRIC, ASSOCIATION_RANGE, CHECK_ID, CHECK_LABEL, COMPUTED_VARIABLE_ROLES, CONTRADICTION_TERM, CONTRADICTION_TYPE, DATA_PREPARATION, IRV, MAHALANOBIS_RATIO, MAHALANOBIS_THRESHOLD, MAXIMUM_LONG_STRING, MISS_RESP, MULTIVARIATE_OUTLIER_CHECK, MULTIVARIATE_OUTLIER_CHECKTYPE, PSYCHOMETRIC_ANT, PSYCHOMETRIC_SYN, RELCOMPL_SPEED, REPEATED_MEASURES_METRIC, REPEATED_MEASURES_METRIC_S REPEATED_MEASURES_REFERENCE, RESPT_PER_ITEM, SCALE_ACRONYM, SCALE_NAME, SUM_ATTENTION_CHECK_ITEMS, TOTRESPT, VARIABLE_LIST, meta_data_computation, meta_data_cross_item

---

VARIABLE_ROLES *Variable roles can be one of the following:*

Description

- `intro` a variable holding consent-data
- `primary` a primary outcome variable
- `secondary` a secondary outcome variable
- `process` a variable describing the measurement process
- `suppress` a variable added on the fly computing sub-reports, i.e., by dq_report_by to have all referred variables available, even if they are not part of the currently processed segment. But they will only be fully assessed in their real segment's report.

Usage

```
VARIABLE_ROLES
```

WELL_KNOWN_META_VARIABLE_NAMES *Well-known metadata column names, names of metadata columns*

Description

names of the variable attributes in the metadata frame holding the names of the respective observers, devices, lower limits for plausible values, upper limits for plausible values, lower limits for allowed values, upper limits for allowed values, the variable name (column name, e.g. v0020349) used in the study data, the variable name used for processing (readable name, e.g. RR_DIAST_1) and in parameters of the QA-Functions, the variable label, variable long label, variable short label, variable data type (see also DATA_TYPES), re-code for definition of lists of event categories, missing lists and jump lists as CSV strings. For valid units see UNITS.

Usage

```
WELL_KNOWN_META_VARIABLE_NAMES
```

Details

all entries of this list will be mapped to the package's exported NAMESPACE environment directly, i.e. they are available directly by their names too:

- VAR_NAMES
- LABEL
- DATA_TYPE
- SCALE_LEVEL
- UNIT
- VALUE_LABELS
- VALUE_LABEL_TABLE
- MISSING_LIST
- JUMP_LIST
- MISSING_LIST_TABLE
- HARD_LIMITS
- DETECTION_LIMITS
- SOFT_LIMITS
- CONTRADICTIONS
- DISTRIBUTION
- DECIMALS
- DATA_ENTRY_TYPE
- END_DIGIT_CHECK
- CO_VARS
- GROUP_VAR_OBSERVER
- GROUP_VAR_DEVICE
- KEY_OBSERVER
- KEY_DEVICE
- TIME_VAR
- TIME_VAR_END
- KEY_DATETIME
- PART_VAR
- STUDY_SEGMENT
- KEY_STUDY_SEGMENT
- VARIABLE_ROLE
- VARIABLE_ORDER
- LONG_LABEL
- SOFT_LIMIT_LOW
- SOFT_LIMIT_UP

- HARD_LIMIT_LOW
- HARD_LIMIT_UP
- DETECTION_LIMIT_LOW
- DETECTION_LIMIT_UP
- INCL_SOFT_LIMIT_LOW
- INCL_SOFT_LIMIT_UP
- INCL_HARD_LIMIT_LOW
- INCL_HARD_LIMIT_UP
- LOCATION_RANGE
- LOCATION_METRIC
- PROPORTION_RANGE
- REPEATED_MEASURES_VARS
- LOCATION_LIMIT_LOW
- LOCATION_LIMIT_UP
- INCL_LOCATION_LIMIT_LOW
- INCL_LOCATION_LIMIT_UP
- PROPORTION_LIMIT_LOW
- PROPORTION_LIMIT_UP
- INCL_PROPORTION_LIMIT_LOW
- INCL_PROPORTION_LIMIT_UP
- RECODE_CASES
- RECODE_CONTROL
- EVENT_LEVELS
- CONTROL_LEVELS
- GRADING_RULESET
- STANDARDIZED_VOCABULARY_TABLE
- DATAFRAMES
- ENCODING
- UNIVARIATE_OUTLIER_CHECKTYPE
- N_RULES
- EXTENDED_DATA_TYPE
- STRUCTURED_TEXT_SCHEMA
- COMPUTED_VARIABLE_ROLE
- ITEM_TYPE

See Also

meta_data_segment for `STUDY_SEGMENT`

online

Other UNITS: `UNITS`, `UNIT_IS_COUNT`, `UNIT_PREFIXES`, `UNIT_PREFIX_FACTORS`, `UNIT_SOURCES`

Examples

```
print(WELL_KNOWN_META_VARIABLE_NAMES$VAR_NAMES)
# print(VAR_NAMES) # should usually also work
```

[.dataquieR_resultset2

Get a subset of a `dataquieR` `dq_report2` *report*

Description

Get a subset of a `dataquieR` `dq_report2` report

Usage

```
## S3 method for class 'dataquieR_resultset2'
x[row, col, res, drop = FALSE, els = row, as_raw = FALSE]
```

Arguments

`x`	the report
`row`	the variable names, must be unique
`col`	the function-call-names, must be unique
`res`	the result slot, must be unique
`drop`	drop, if length is 1
`els`	used, if in list-mode with named argument
`as_raw`	retrieve the result maybe as compressed `raw` `util_compress()` serialized object

Value

a list with results, depending on `drop` and the number of results, the list may contain all requested results in sub-lists. The order of the results follows the order of the row/column/result-names given

---

[<-.dataquieR_resultset2

Write to a report

Description

Overwriting of elements only list-wise supported

Usage

```
## S3 replacement method for class 'dataquieR_resultset2'
x[...] <- value
```

Arguments

x	a ‘dataquieR_resultset2
...	if this contains only one entry and this entry is not named or its name is `els`, then, the report will be accessed in list mode.
value	new value to write

Value

nothing, stops

[[.dataquieR_resultset2

Get a single result from a `dataquieR 2` *report*

Description

Get a single result from a `dataquieR 2` report

Usage

```
## S3 method for class 'dataquieR_resultset2'
x[[el]]
```

Arguments

x	the report
el	the index

Value

the `dataquieR` result object

[[<-.dataquieR_resultset2

Set a single result from a `dataquieR 2` *report*

Description

Set a single result from a `dataquieR 2` report

Usage

```
## S3 replacement method for class 'dataquieR_resultset2'
x[[el]] <- value
```

Arguments

x	the report
el	the index
value	the single result

Value

the dataquieR result object

$.dataquieR_resultset2

Access single results from a dataquieR_resultset2 report

Description

Access single results from a dataquieR_resultset2 report

Usage

```
## S3 method for class 'dataquieR_resultset2'
x$el
```

Arguments

x	the report
el	the index

Value

the dataquieR result object

$<-.dataquieR_resultset2

Write single results from a dataquieR_resultset2 report

Description

Write single results from a dataquieR_resultset2 report

Usage

```
## S3 replacement method for class 'dataquieR_resultset2'
x$el <- value
```

Arguments

`x`	the report
`el`	the index
`value`	the single result

Value

the `dataquieR` result object

Index

∗ **SSI**
COMPUTED_VARIABLE_ROLES, 48
IRV, 196
MAHALANOBIS_RATIO, 196
MAXIMUM_LONG_STRING, 197
MISS_RESP, 200
PSYCHOMETRIC_ANT, 275
PSYCHOMETRIC_SYN, 276
RELCOMPL_SPEED, 277
RESPT_PER_ITEM, 280
SUM_ATTENTION_CHECK_ITEMS, 287
TOTRESPT, 288
∗ **UNITS**
UNIT_IS_COUNT, 289
UNIT_PREFIX_FACTORS, 290
UNIT_PREFIXES, 289
UNIT_SOURCES, 290
UNITS, 289
WELL_KNOWN_META_VARIABLE_NAMES, 293
∗ **data-frame-cache**
prep_add_data_frames, 210
prep_get_data_frame, 233
prep_list_dataframes, 239
prep_load_folder_with_metadata, 240
prep_load_workbook_like_file, 243
prep_purge_data_frame_cache, 251
prep_remove_from_cache, 253
∗ **meta_data_computation**
COMPUTATION_RULE, 48
∗ **meta_data_cross_item**
ASSOCIATION_DIRECTION, 43
ASSOCIATION_FORM, 44
ASSOCIATION_METRIC, 44
ASSOCIATION_RANGE, 45
CHECK_ID, 45
CHECK_LABEL, 46
COMPUTED_VARIABLE_ROLES, 48
CONTRADICTION_TERM, 57
CONTRADICTION_TYPE, 57
DATA_PREPARATION, 148
IRV, 196
MAHALANOBIS_RATIO, 196
MAHALANOBIS_THRESHOLD, 197
MAXIMUM_LONG_STRING, 197
meta_data_computation, 198
meta_data_cross_item, 199
MISS_RESP, 200
MULTIVARIATE_OUTLIER_CHECK, 200
MULTIVARIATE_OUTLIER_CHECKTYPE, 201
PSYCHOMETRIC_ANT, 275
PSYCHOMETRIC_SYN, 276
RELCOMPL_SPEED, 277
REPEATED_MEASURES_METRIC, 277
REPEATED_MEASURES_METRIC_SETTING, 278
REPEATED_MEASURES_REFERENCE, 278
RESPT_PER_ITEM, 280
SCALE_ACRONYM, 280
SCALE_NAME, 281
SUM_ATTENTION_CHECK_ITEMS, 287
TOTRESPT, 288
VARIABLE_LIST, 292
VARIABLE_LIST_ORDER, 292
∗ **options**
dataquieR.acc_loess.exclude_constant_subgroups, 72
dataquieR.acc_loess.mark_time_points, 73
dataquieR.acc_loess.min_bw, 74
dataquieR.acc_loess.min_obs_in_subgroup, 75
dataquieR.acc_loess.min_proportion, 76
dataquieR.acc_loess.plot_format, 77

dataquieR.acc_loess.plot_observations, 78
dataquieR.acc_margins_num, 78
dataquieR.acc_margins_sort, 79
dataquieR.acc_multivariate_outlier.scale, 80
dataquieR.acc_shape_or_scale_ci, 81
dataquieR.col_con_con_empirical, 82
dataquieR.col_con_con_logical, 83
dataquieR.CONDITIONS_LEVEL_TRHESHOLD, 84
dataquieR.CONDITIONS_WITH_STACKTRACE, 85
dataquieR.convert_to_list_for_lapply, 86
dataquieR.debug, 86
dataquieR.des_summary_hard_lim_remove, 87
dataquieR.dontwrapresults, 88
dataquieR.droplevels_ReportSummaryTable, 89
dataquieR.dt_adjust, 90
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, 91
dataquieR.ERRORS_WITH_CALLER, 92
dataquieR.fix_column_type_on_read, 93
dataquieR.fix_var_name_prefixes_label, 94
dataquieR.flip_mode, 94
dataquieR.force_item_specific_missing_codes, 95
dataquieR.force_label_col, 96
dataquieR.force_rstudio_user_cluster, 97
dataquieR.GAM_for_LOESS, 98
dataquieR.grading_formats, 99
dataquieR.grading_rulesets, 100
dataquieR.guess_character, 100
dataquieR.guess_missing_codes, 101
dataquieR.html_table_backend, 102
dataquieR.ignore_empty_vars, 103
dataquieR.json.schema.strict.mode, 104
dataquieR.lang, 105
dataquieR.lazy_plots, 106
dataquieR.lazy_plots_cache, 107
dataquieR.lazy_plots_gg_compatibility, 108
dataquieR.locale, 109
dataquieR.MAHALANOBIS_THRESHOLD, 109
dataquieR.max_cat_resp_var_levels_in_plot, 110
dataquieR.max_group_var_levels_in_plot, 111
dataquieR.max_group_var_levels_with_violins, 112
dataquieR.MAX_LABEL_LEN, 113
dataquieR.MAX_LONG_LABEL_LEN, 114
dataquieR.MAX_VALUE_LABEL_LEN, 115
dataquieR.MESSAGES_WITH_CALLER, 116
dataquieR.min_group_var_levels, 116
dataquieR.min_obs_per_group_var_in_plot, 117
dataquieR.min_time_points_for_cat_resp_var, 118
dataquieR.MULTIVARIATE_OUTLIER_CHECK, 119
dataquieR.no_geom_count_in_bin, 121
dataquieR.no_overall_in_bin, 122
dataquieR.non_disclosure, 120
dataquieR.old_factor_handling, 123
dataquieR.old_type_adjust, 124
dataquieR.parallel.cpus, 124
dataquieR.parallel.load.balancing, 125
dataquieR.parallel.mode, 126
dataquieR.parallel.show.info, 127
dataquieR.precomputeStudyData, 128
dataquieR.print_block_load_factor, 129
dataquieR.progress_fkt_default, 130
dataquieR.progress_msg_fkt_default, 131
dataquieR.psychometric_cor_pairs, 132
dataquieR.resume_checkpoint, 133
dataquieR.resume_print, 134
dataquieR.scale_level_heuristics_control_binaryrecodel

134
dataquieR.scale_level_heuristics_control_metriclevels, 135
dataquieR.study_data_cache_max, 136
dataquieR.study_data_cache_metrics, 137
dataquieR.study_data_cache_metrics_env, 138
dataquieR.study_data_cache_quick_fill, 140
dataquieR.study_data_colnames_case_sensitive, 141
dataquieR.testdebug, 141
dataquieR.traceback, 142
dataquieR.type_adjust_parallel, 143
dataquieR.VALUE_LABELS_htmlescaped, 144
dataquieR.WARNINGS_WITH_CALLER, 145
progress_init_fkt, 273

∗ **study_data_cache**
dataquieR.ignore_empty_vars, 103
dataquieR.precomputeStudyData, 128
dataquieR.print_block_load_factor, 129
dataquieR.study_data_cache_max, 136
dataquieR.study_data_cache_metrics, 137
dataquieR.study_data_cache_metrics_env, 138
dataquieR.study_data_cache_metrics_env_default, 139
dataquieR.study_data_cache_quick_fill, 140

∗ **summary_functions**
prep_combine_report_summaries, 220
prep_extract_classes_by_functions, 229
prep_extract_summary, 229
prep_extract_summary.dataquieR_result, 230
prep_extract_summary.dataquieR_resultset2, 231
prep_render_pie_chart_from_summaryclasses, 254
prep_render_pie_chart_from_summaryclasses_plotly, 255
prep_summary_to_classes, 259

*.numeric_with_unit (numeric_with_unit-operators), 203
+.numeric_with_unit (numeric_with_unit-operators), 203
-.numeric_with_unit (numeric_with_unit-operators), 203
.dataquieR_resultset2 (dataquieR_resultset2-class), 147
/.numeric_with_unit (numeric_with_unit-operators), 203
[.dataquieR_resultset2, 296
[<-.dataquieR_resultset2, 296
[[.dataquieR_resultset2, 297
[[<-.dataquieR_resultset2, 297
$.dataquieR_resultset2, 298
$<-.dataquieR_resultset2, 298
%/%.numeric_with_unit (numeric_with_unit-operators), 203
%%.numeric_with_unit (numeric_with_unit-operators), 203
^.numeric_with_unit (numeric_with_unit-operators), 203

acc_cat_distributions, 10
acc_distributions, 11, *15*, *17*, *19*
acc_distributions_ecdf, 13
acc_distributions_loc, 14
acc_distributions_only, 16
acc_distributions_prop, 17
acc_end_digits, 19
acc_loess, 20
acc_loess(), *75*, *77*
acc_mahalanobis, 23, *197*
acc_mahalanobis(), *25*, *110*
acc_mahalanobis_ratio, 25
acc_margins, 26
acc_multivariate_outlier, 29, *200*, *201*
acc_pairwise, 30
acc_repeated_measurements, 31

acc_robust_univariate_outlier, 33, *39*
acc_shape_or_scale, *19*, 35, *161*
acc_univariate_outlier, *35*, 37
acc_varcomp, 39
as.character.dataquieR_translated, 41
as.character.interval, 41
as.data.frame.dataquieR_resultset, 42, *146*, *168*
as.integer(), *123*
as.list.dataquieR_resultset, 42, *146*, *168*
as.list.dataquieR_resultset2, 43
ASSOCIATION_DIRECTION, 43, *44–46*, *48*, *57, 58*, *148*, *196–201*, *275–278*, *280*, *282*, *287, 288*, *292, 293*
ASSOCIATION_FORM, *43, 44*, 44, *45, 46*, *48*, *57, 58*, *148*, *196–201*, *275–278*, *280*, *282*, *287, 288*, *292, 293*
ASSOCIATION_METRIC, *43, 44*, 44, *45, 46*, *48*, *57, 58*, *148*, *196–201*, *275–278*, *280*, *282*, *287, 288*, *292, 293*
ASSOCIATION_RANGE, *43, 44*, 45, *46*, *48*, *57, 58*, *148*, *196–201*, *275–278*, *280*, *282*, *287, 288*, *292, 293*

base::rbind.data.frame, *276*
browser(), *86*

cash-.dataquieR_resultset2 *($.dataquieR_resultset2)*, 298
cash-set-.dataquieR_resultset2.Rd *($<-.dataquieR_resultset2)*, 298
cause_label_df, *49*, *207*, *228*, *246*, *291*
cause_label_df *(value/missing-lists)*, 290
character, *10*, *12, 13*, *15, 16*, *18, 19*, *22*, *24, 25*, *28*, *30*, *32*, *34*, *36*, *38*, *40*, *50–52*, *54*, *56*, *58*, *60*, *62*, *64*, *66*, *68*, *70, 71*, *90*, *102, 103*, *106–109*, *123, 124*, *141*, *143*, *150*, *152, 153*, *155*, *162, 163*, *166–168*, *170–172*, *174, 175*, *180, 181*, *183–190*, *192–195*, *205*, *207, 208*, *211–213*, *215–217*, *219*, *221*, *223–228*, *232, 233*, *235–237*, *241, 242*, *244*, *253*, *256, 257*, *261, 262*, *264, 265*, *274*, *290*
character(), *239, 240*
CHECK_ID, *43–45*, 45, *46*, *48*, *57, 58*, *148*, *196–201*, *275–278*, *280*, *282*, *287, 288*, *292, 293*
CHECK_LABEL, *43–46*, 46, *48*, *57, 58*, *148*, *196–201*, *275–278*, *280*, *282*, *287, 288*, *292, 293*
check_table, 46, *199*
CO_VARS, *294*
CO_VARS *(WELL_KNOWN_META_VARIABLE_NAMES)*, 293
CODE_CLASS *(value/missing-lists)*, 290
CODE_CLASSES, 47
CODE_INTERPRET *(value/missing-lists)*, 290
CODE_LABEL *(value/missing-lists)*, 290
CODE_LIST_TABLE, 47
CODE_ORDER, 47
CODE_VALUE *(value/missing-lists)*, 290
com_item_missingness, 49, *51, 52*
com_item_missingness(), *291*
com_qualified_item_missingness, 51
com_qualified_item_missingness(), *291*
com_qualified_segment_missingness, 52
com_qualified_segment_missingness(), *291*
com_segment_missingness, 53
com_segment_missingness(), *291*
com_unit_missingness, 55
COMPATIBILITY *(VARATT_REQUIRE_LEVELS)*, 291
COMPUTATION_RULE, 48
COMPUTED_VARIABLE_ROLE, *295*
COMPUTED_VARIABLE_ROLE *(WELL_KNOWN_META_VARIABLE_NAMES)*, 293
COMPUTED_VARIABLE_ROLES, *43–46*, 48, *57, 58*, *148*, *196–201*, *275–278*, *280*, *282*, *287, 288*, *292, 293*
con_attention_check_items, 58
con_contradictions, *46*, 59
con_contradictions_redcap, *46*, 61
con_inadmissible_categorical, 64
con_inadmissible_categorical(), *291*
con_inadmissible_vocabulary, 65
con_inadmissible_vocabulary(), *291*
con_limit_deviations, 67
con_schema_nonadherence, 69
con_ssi_range_check, 71
contradiction_functions_descriptions,

56
CONTRADICTION_TERM, *43–46*, *48*, 57, *58*, *119*, *148*, *196–201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
CONTRADICTION_TYPE, *43–46*, *48*, *57*, 57, *148*, *196–201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
CONTRADICTIONS, *294*
CONTRADICTIONS (WELL_KNOWN_META_VARIABLE_NAMES), 293
CONTROL_LEVELS, *295*
CONTROL_LEVELS (WELL_KNOWN_META_VARIABLE_NAMES), 293

data.frame, *10–16*, *18–32*, *34–36*, *38*, *40*, *49–56*, *58–60*, *62*, *64*, *66*, *68–72*, *99*, *100*, *150–155*, *162*, *163*, *166–168*, *170*, *172*, *179–181*, *183–190*, *192–195*, *206–213*, *215–217*, *219*, *221–224*, *227–233*, *235*, *236*, *244–250*, *257*, *259–261*, *274*, *290*
DATA_ENTRY_TYPE, *294*
DATA_ENTRY_TYPE (WELL_KNOWN_META_VARIABLE_NAMES), 293
DATA_PREPARATION, *43–46*, *48*, *57*, *58*, *62*, 148, *196–201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
DATA_TYPE, *100*, *101*, *148*, *294*
DATA_TYPE (WELL_KNOWN_META_VARIABLE_NAMES), 293
DATA_TYPES, 148, *293*
DATA_TYPES_OF_R_TYPE, 149, *227*
DATAFRAMES, *295*
DATAFRAMES (WELL_KNOWN_META_VARIABLE_NAMES), 293
dataquieR, *33*, *37*, *73–103*, *105–138*, *140–145*, *149*, *263*, *264*, *273*, *286*
dataquieR report v2, *264*
dataquieR.acc_loess.exclude_constant_subgroups, 72, *73–103*, *105–138*, *140–145*, *273*
dataquieR.acc_loess.mark_time_points, *73*, 73, *74–81*, *83–103*, *105–138*, *140–145*, *273*
dataquieR.acc_loess.min_bw, *73*, 74, *75–81*, *83–103*, *105–138*, *140–145*, *273*
dataquieR.acc_loess.min_obs_in_subgroup, *73*, *74*, 75, *76–81*, *83–103*, *105–138*, *140–145*, *273*
dataquieR.acc_loess.min_proportion, *73–75*, 76, *77–81*, *83–103*, *105–138*, *140–145*, *273*
dataquieR.acc_loess.plot_format, *73–76*, 77, *78–81*, *83–103*, *105–138*, *140–145*, *273*
dataquieR.acc_loess.plot_observations, *73–77*, 78, *79–81*, *83–103*, *105–138*, *140–145*, *273*
dataquieR.acc_margins_num, *73–78*, 78, *80*, *81*, *83–103*, *105–138*, *140–145*, *273*
dataquieR.acc_margins_sort, *73–79*, 79, *81*, *83–103*, *105–138*, *140–145*, *273*
dataquieR.acc_multivariate_outlier.scale, *73–80*, 80, *81*, *83–103*, *105–138*, *140–145*, *273*
dataquieR.acc_shape_or_scale_ci, *73–81*, 81, *83–103*, *105–138*, *140–145*, *273*
dataquieR.applicability_problem, 82
dataquieR.col_con_con_empirical, *73–81*, 82, *83–103*, *105–138*, *140–145*, *273*
dataquieR.col_con_con_logical, *73–81*, *83*, 83, *84–103*, *105–138*, *140–145*, *273*
dataquieR.CONDITIONS_LEVEL_TRHESHOLD, *73–83*, 84, *85–103*, *105–138*, *140–145*, *273*
dataquieR.CONDITIONS_WITH_STACKTRACE, *73–84*, 85, *86–103*, *105–138*, *140–145*, *273*
dataquieR.convert_to_list_for_lapply, *73–81*, *83–85*, 86, *87–103*, *105–138*, *140–145*, *273*
dataquieR.debug, *73–81*, *83–86*, 86, *88–103*, *105–138*, *140–145*, *273*
dataquieR.des_summary_hard_lim_remove, *73–81*, *83–87*, 87, *88–103*, *105–138*, *140–145*, *273*
dataquieR.dontwrapresults, *73–81*, *83–88*, 88, *89–103*, *105–145*, *273*
dataquieR.droplevels_ReportSummaryTable, *73–81*, *83–89*, 89, *90–103*, *105–145*,

270, 273
dataquieR.dt_adjust, 73–81, 83–89, 90, 91–103, 105–145, 163, 168, 273
dataquieR.ELEMENT_MISSMATCH_CHECKTYPE, 73–90, 91, 92–103, 105–138, 140–145, 189, 273
dataquieR.ERRORS_WITH_CALLER, 73–91, 92, 93–103, 105–138, 140–145, 273
dataquieR.fix_column_type_on_read, 73–81, 83–92, 93, 94–103, 105–145, 273
dataquieR.fix_var_name_prefixes_label, 73–81, 83–93, 94, 95–103, 105–145, 273
dataquieR.flip_mode, 73–81, 83–94, 94, 96–103, 105–145, 273
dataquieR.force_item_specific_missing_codes, 73–81, 83–95, 95, 96–145, 273
dataquieR.force_label_col, 73–81, 83–96, 96, 97–145, 273
dataquieR.force_rstudio_user_cluster, 73–81, 83–96, 97, 98–145, 273
dataquieR.GAM_for_LOESS, 73–97, 98, 99–103, 105–138, 140–145, 273
dataquieR.grading_formats, 73–81, 83–98, 99, 100–145, 273
dataquieR.grading_rulesets, 73–99, 100, 101–145, 273
dataquieR.guess_character, 73–100, 100, 102–145, 273
dataquieR.guess_missing_codes, 73–101, 101, 103–145, 273
dataquieR.html_table_backend, 73–102, 102, 104–145, 273
dataquieR.ignore_empty_vars, 73–103, 103, 105–145, 162, 166, 273
dataquieR.intrinsic_applicability_problem, 104
dataquieR.json.schema.strict.mode, 73–104, 104, 106–145, 273
dataquieR.lang, 73–105, 105, 107–145, 273
dataquieR.lazy_plots, 73–106, 106, 107–145, 273
dataquieR.lazy_plots_cache, 73–107, 107, 108–145, 252, 273
dataquieR.lazy_plots_gg_compatibility, 73–107, 108, 109–145, 273
dataquieR.locale, 73–108, 109, 110–145, 273
dataquieR.MAHALANOBIS_THRESHOLD, 73–103, 105–109, 109, 111–138, 140–145, 273
dataquieR.max_cat_resp_var_levels_in_plot, 73–110, 110, 112–145, 273
dataquieR.max_group_var_levels_in_plot, 73–111, 111, 113–145, 273
dataquieR.max_group_var_levels_with_violins, 73–112, 112, 113–145, 273
dataquieR.MAX_LABEL_LEN, 73–103, 105–112, 113, 114–138, 140–145, 273
dataquieR.MAX_LONG_LABEL_LEN, 73–103, 105–113, 114, 115–138, 140–145, 273
dataquieR.MAX_VALUE_LABEL_LEN, 73–103, 105–114, 115, 116–138, 140–145, 273
dataquieR.MESSAGES_WITH_CALLER, 73–103, 105–115, 116, 117–138, 140–145, 273
dataquieR.min_group_var_levels, 73–116, 116, 118–145, 273
dataquieR.min_obs_per_group_var_in_plot, 73–117, 117, 119–145, 273
dataquieR.min_time_points_for_cat_resp_var, 73–118, 118, 120–145, 273
dataquieR.MULTIVARIATE_OUTLIER_CHECK, 73–103, 105–118, 119, 120–138, 140–145, 197, 200, 273
dataquieR.no_geom_count_in_bin, 73–121, 121, 122–145, 273
dataquieR.no_overall_in_bin, 73–121, 122, 123–145, 273
dataquieR.non_disclosure, 73–120, 120, 121–145, 273
dataquieR.old_factor_handling, 73–122, 123, 124–145, 273
dataquieR.old_type_adjust, 73–123, 124, 125–145, 273
dataquieR.parallel.cpus, 73–124, 124, 126–145, 273
dataquieR.parallel.load.balancing, 73–125, 125, 127–146, 273
dataquieR.parallel.mode, 73–126, 126, 128–146, 273
dataquieR.parallel.show.info, 73–127,

127, *129–146*, *273*
dataquieR.precomputeStudyData, *73–128*, 128, *130–146*, *273*
dataquieR.print_block_load_factor, *73–129*, 129, *131–146*, *264*, *273*
dataquieR.progress_fkt_default, *73–90*, *92–130*, 130, *132–146*, *273*
dataquieR.progress_msg_fkt_default, *73–90*, *92–131*, 131, *132–146*, *273*
dataquieR.psychometric_cor_pairs, *73–90*, *92–132*, 132, *133–146*, *273*, *275*, *276*
dataquieR.resume_checkpoint, *73–90*, *92–132*, 133, *134–146*, *273*
dataquieR.resume_print, *73–90*, *92–133*, 134, *135–146*, *273*
dataquieR.scale_level_heuristics_control_binary_summary_c, *73–90*, *92–134*, 134, *136–146*, *273*
dataquieR.scale_level_heuristics_control_metrics_levels, *73–90*, *92–135*, 135, *137–146*, *273*
dataquieR.study_data_cache_max, *73–90*, *92–136*, 136, *137–146*, *273*
dataquieR.study_data_cache_metrics, *73–137*, 137, *138–146*, *273*
dataquieR.study_data_cache_metrics_env, *73–138*, 138, *139–146*, *273*
dataquieR.study_data_cache_metrics_env_default, *104*, *129*, *130*, *137–139*, 139, *140*
dataquieR.study_data_cache_quick_fill, *73–139*, 140, *141–146*, *273*
dataquieR.study_data_colnames_case_sensitive, *73–140*, 141, *142–146*, *273*
dataquieR.testdebug, *73–141*, 141, *143–146*, *273*
dataquieR.traceback, *73–142*, 142, *144–146*, *273*
dataquieR.type_adjust_parallel, *73–143*, 143, *145*, *146*, *273*
dataquieR.VALUE_LABELS_htmlescaped, *73–103*, *105–138*, *140–143*, 144, *145*, *273*
dataquieR.WARNINGS_WITH_CALLER, *73–103*, *105–138*, *140–144*, 145, *273*
dataquieR_result, *164*, *229*, *230*, *268*
dataquieR_result (print.dataquieR_result), 263
dataquieR_resultset, *146*, 146
dataquieR_resultset2, *43*, *147*, *168*, *223*, *241*, *242*, *256*, *258*, *298*
dataquieR_resultset2 (dataquieR_resultset2-class), 147
dataquieR_resultset2-class, 147
dataquieR_resultset_verify, 147
DATETIME, *290*
DATETIME (DATA_TYPES), 148
datetime (DATA_TYPES), 148
DECIMALS, *294*
DECIMALS (WELL_KNOWN_META_VARIABLE_NAMES), 293
default.stringsAsFactors, *222*
des_scatterplot_matrix, 150
des_summary, 151
des_summary_categorical, 152
des_summary_continuous, 154
description, *10*, *13*, *16*, *20*, *53*, *55*, *59*, *150–152*, *154*, *189*
DETECTION_LIMIT_LOW, *295*
DETECTION_LIMIT_LOW (WELL_KNOWN_META_VARIABLE_NAMES), 293
DETECTION_LIMIT_UP, *295*
DETECTION_LIMIT_UP (WELL_KNOWN_META_VARIABLE_NAMES), 293
DETECTION_LIMITS, *294*
DETECTION_LIMITS (WELL_KNOWN_META_VARIABLE_NAMES), 293
DF_CODE, 155
DF_ELEMENT_COUNT, 156
DF_ID_REF_TABLE, 156
DF_ID_VARS, 157
DF_NAME, 157
DF_RECORD_CHECK, 157
DF_RECORD_COUNT, 158
DF_UNIQUE_ID, 158, *284*
DF_UNIQUE_ROWS, 158
dim.dataquieR_resultset2, 159
dimensions, 159, *166*
dimnames.dataquieR_resultset2, 160
dims, 160
DISTRIBUTION, *294*
DISTRIBUTION (WELL_KNOWN_META_VARIABLE_NAMES),

293
DISTRIBUTIONS, 161
dq_lazy_ggplot_methods (ggplotGrob.dq_lazy_ggplot), 176
dq_questionnaire, 161
dq_report, *146*, 164, *171*, *173*
dq_report2, *147*, 164, *171*, *173*, *229–231*, *246*, *263*
dq_report2(), *143*, *163*, *164*, *205*, *240*, *265*
dq_report_by, *168*, 169, *293*
dq_report_by(), *262*
dq_shiny_panel_html, 174
dq_shiny_panel_server (dq_shiny_panel_ui), 174
dq_shiny_panel_ui, 174
droplevels.ReportSummaryTable, 175

emmeans::emmeans, *26*
ENCODING, *295*
ENCODING (WELL_KNOWN_META_VARIABLE_NAMES), 293
END_DIGIT_CHECK, *294*
END_DIGIT_CHECK (WELL_KNOWN_META_VARIABLE_NAMES), 293
enum, *12*, *15*, *16*, *18*, *22*, *27*, *36*, *50–52*, *54*, *68*, *162*, *166*, *188*, *189*, *217*, *222*, *235*, *259*, *270*, *274*, *290*
enum (DATA_TYPES), 148
environment, *138*, *233*
eval.parent, *250*
EVENT_LEVELS, *295*
EVENT_LEVELS (WELL_KNOWN_META_VARIABLE_NAMES), 293
EXTENDED_DATA_TYPE, *295*
EXTENDED_DATA_TYPE (WELL_KNOWN_META_VARIABLE_NAMES), 293

FLOAT (DATA_TYPES), 148
float, *149*
float (DATA_TYPES), 148
function, *130*, *131*, *167*, *171*, *248*, *253*, *273*

ggplot2::geom_jitter, *33*, *37*
ggplot2::geom_line(), *21*
ggplot2::ggplot, *11*, *12*, *14–16*, *18*, *34*, *38*, *61*, *63*, *69*, *72*, *151*
ggplot2::ggplot(), *29*
ggplot2::ggplot2, *24*, *26*, *31*, *36*, *183*, *275*
ggplotGrob, *176*
ggplotGrob.dq_lazy_ggplot, 176
ggplotGrob.dq_lazy_ggplot_s7 (ggplotGrob.dq_lazy_ggplot), 176
ggplotly.dq_lazy_ggplot (ggplotGrob.dq_lazy_ggplot), 176
ggplotly.dq_lazy_ggplot_s7 (ggplotGrob.dq_lazy_ggplot), 176
glm, *218*
GRADING_RULESET, *54*, *55*, *100*, *295*
GRADING_RULESET (WELL_KNOWN_META_VARIABLE_NAMES), 293
grid.draw.util_pairs_ggplot_panels, 177
GROUP_VAR_DEVICE, *294*
GROUP_VAR_DEVICE (WELL_KNOWN_META_VARIABLE_NAMES), 293
GROUP_VAR_OBSERVER, *294*
GROUP_VAR_OBSERVER (WELL_KNOWN_META_VARIABLE_NAMES), 293

HARD_LIMIT_LOW, *295*
HARD_LIMIT_LOW (WELL_KNOWN_META_VARIABLE_NAMES), 293
HARD_LIMIT_UP, *295*
HARD_LIMIT_UP (WELL_KNOWN_META_VARIABLE_NAMES), 293
HARD_LIMITS, *294*
HARD_LIMITS (WELL_KNOWN_META_VARIABLE_NAMES), 293
html_dependency_clipboard, 177
html_dependency_dataquieR, 178
html_dependency_jspdf, 178
html_dependency_tippy, 179
htmltools::htmlDependency(), *178*

INCL_HARD_LIMIT_LOW, *295*
INCL_HARD_LIMIT_LOW (WELL_KNOWN_META_VARIABLE_NAMES), 293
INCL_HARD_LIMIT_UP, *295*
INCL_HARD_LIMIT_UP (WELL_KNOWN_META_VARIABLE_NAMES), 293
INCL_LOCATION_LIMIT_LOW, *295*
INCL_LOCATION_LIMIT_LOW (WELL_KNOWN_META_VARIABLE_NAMES), 293
INCL_LOCATION_LIMIT_UP, *295*
INCL_LOCATION_LIMIT_UP (WELL_KNOWN_META_VARIABLE_NAMES), 293
INCL_PROPORTION_LIMIT_LOW, *295*
INCL_PROPORTION_LIMIT_LOW (WELL_KNOWN_META_VARIABLE_NAMES), 293
INCL_PROPORTION_LIMIT_UP, *295*
INCL_PROPORTION_LIMIT_UP (WELL_KNOWN_META_VARIABLE_NAMES), 293
INCL_SOFT_LIMIT_LOW, *295*
INCL_SOFT_LIMIT_LOW (WELL_KNOWN_META_VARIABLE_NAMES), 293
INCL_SOFT_LIMIT_UP, *295*
INCL_SOFT_LIMIT_UP (WELL_KNOWN_META_VARIABLE_NAMES), 293
Indicator, *11*, *14*, *17*, *19*, *23*, *25*, *26*, *30*, *31*, *33*, *35*, *37*, *39*, *49*, *51*, *52*, *58*, *61*, *64*, *65*, *67*, *69*, *71*, *179*, *181*, *182*, *184–187*, *190–195*
int_all_datastructure_dataframe, 179
int_all_datastructure_segment, 181
int_datatype_matrix, 182
int_duplicate_content, 184
int_duplicate_ids, 185
int_encoding_errors, 186
int_invalid_syntax, 187
int_part_vars_structure, 188
int_sts_element_dataframe, 189
int_sts_element_segment, 190
int_unexp_elements, 192
int_unexp_records_dataframe, 193
int_unexp_records_segment, 194
int_unexp_records_set, 195
INTEGER (DATA_TYPES), 148
integer, *21*, *22*, *28*, *30*, *34*, *38*, *40*, *149*, *162*, *166*, *183*, *192–194*, *235*, *247*, *256*, *265*, *274*, *275*
integer (DATA_TYPES), 148
invisible(), *221*
IRV, *43–46*, *48*, *57*, *58*, *148*, *196*, 196, *197–201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
ITEM_TYPE, *287*, *295*
ITEM_TYPE (WELL_KNOWN_META_VARIABLE_NAMES), 293

JUMP_LIST, *95*, *294*
JUMP_LIST (WELL_KNOWN_META_VARIABLE_NAMES), 293

KEY_DATETIME, *294*
KEY_DATETIME (WELL_KNOWN_META_VARIABLE_NAMES), 293
KEY_DEVICE, *294*
KEY_DEVICE (WELL_KNOWN_META_VARIABLE_NAMES), 293
KEY_OBSERVER, *294*
KEY_OBSERVER (WELL_KNOWN_META_VARIABLE_NAMES), 293
KEY_STUDY_SEGMENT, *294*
KEY_STUDY_SEGMENT (WELL_KNOWN_META_VARIABLE_NAMES), 293

LABEL, *113*, *292*, *294*
LABEL (WELL_KNOWN_META_VARIABLE_NAMES), 293
list, *11*, *12*, *14–16*, *18*, *20–22*, *43*, *52*, *53*, *61*, *63*, *69*, *70*, *72*, *152*, *153*, *155*, *162–164*, *166*, *167*, *171*, *172*, *180*, *181*, *183–185*, *188*, *190–193*, *195*, *220*, *228*, *230*, *231*, *244*, *245*, *248*, *262–264*, *275*
list(), *259*, *268*
list.files(), *240*

lme4::lmer, *218*
LOCATION_LIMIT_LOW, *295*
LOCATION_LIMIT_LOW
(WELL_KNOWN_META_VARIABLE_NAMES), 293
LOCATION_LIMIT_UP, *295*
LOCATION_LIMIT_UP
(WELL_KNOWN_META_VARIABLE_NAMES), 293
LOCATION_METRIC, *295*
LOCATION_METRIC
(WELL_KNOWN_META_VARIABLE_NAMES), 293
LOCATION_RANGE, *295*
LOCATION_RANGE
(WELL_KNOWN_META_VARIABLE_NAMES), 293
logical, *12*, *15*, *18*, *21*, *22*, *28*, *30*, *31*, *36*, *49*, *50*, *60*, *62*, *68*, *72*, *152*, *153*, *155*, *163*, *167*, *168*, *171*, *172*, *178*, *183*, *188*, *205*, *208–210*, *212*, *214*, *217*, *219*, *220*, *222–224*, *226*, *227*, *233*, *235*, *240*, *243*, *244*, *246*, *249*, *250*, *258*, *259*, *262*, *264*, *265*, *270*, *274*
LONG_LABEL, *114*, *292*, *294*
LONG_LABEL
(WELL_KNOWN_META_VARIABLE_NAMES), 293

MAHALANOBIS_RATIO, *43–46*, *48*, *57*, *58*, *148*, *196*, 196, *197–201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
MAHALANOBIS_THRESHOLD, *43–46*, *48*, *57*, *58*, *148*, *196*, *197*, 197, *198–201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
match.arg, *149*
MAXIMUM_LONG_STRING, *43–46*, *48*, *57*, *58*, *148*, *196*, *197*, 197, *198–201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
meta_data, *188*, 198, *232*, *254*, *255*
meta_data_computation, *43–46*, *48*, *57*, *58*, *148*, *196–198*, 198, *199–201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
meta_data_cross_item, *43–46*, *48*, *57*, *58*, *63*, *148*, *196–198*, 199, *200*, *201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
meta_data_dataframe, *156–158*, *198*, 199
meta_data_segment, *198*, 199, *282–285*, *295*
mget, *244*
MISS_RESP, *43–46*, *48*, *57*, *58*, *148*, *196–199*, 200, *201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
MISSING_CODE_RULES, 199
MISSING_LIST, *95*, *294*
MISSING_LIST
(WELL_KNOWN_META_VARIABLE_NAMES), 293
MISSING_LIST_TABLE, *95*, *228*, *291*, *294*
MISSING_LIST_TABLE
(WELL_KNOWN_META_VARIABLE_NAMES), 293
missing_matchtable
(value/missing-lists), 290
MULTIVARIATE_OUTLIER_CHECK, *43–46*, *48*, *57*, *58*, *148*, *196–200*, 200, *201*, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*
MULTIVARIATE_OUTLIER_CHECKTYPE, *43–46*, *48*, *57*, *58*, *148*, *196–201*, 201, *275–278*, *280*, *282*, *287*, *288*, *292*, *293*

N_RULES, *201*, *295*
N_RULES
(WELL_KNOWN_META_VARIABLE_NAMES), 293
names<-.dataquieR_translated, 202
nres, 202
numeric, *21*, *22*, *24*, *27*, *30*, *36*, *50*, *54*, *60*, *62*, *64*, *66*, *129*, *156*, *158*, *183*, *256*, *264*, *284*, *290*
numeric (DATA_TYPES), 148
numeric_with_unit-operators, 203

OPTIONAL (VARATT_REQUIRE_LEVELS), 291
options(), *163*, *166*, *171*, *264*

parallel::parLapply(), *125*
parallel::parLapplyLB(), *125*
PART_VAR, *294*
PART_VAR
(WELL_KNOWN_META_VARIABLE_NAMES), 293
pipeline_recursive_result, 204

pipeline_vectorized, 204
plot.dataquieR_summary, 205
plotly_build.dq_lazy_ggplot (ggplotGrob.dq_lazy_ggplot), 176
plotly_build.dq_lazy_ggplot_s7 (ggplotGrob.dq_lazy_ggplot), 176
prep_acc_distributions_with_ecdf, 206
prep_add_cause_label_df, 207, *229*
prep_add_computed_variables, 208
prep_add_data_frames, 210, *233, 234*, *241*, *243*
prep_add_data_frames(), *228*, *234*, *239*, *241*, *243*, *252, 253*
prep_add_missing_codes, 211
prep_add_to_meta, 212
prep_apply_coding, 213
prep_check_for_dataquieR_updates, 214
prep_check_meta_data_dataframe, 214
prep_check_meta_data_segment, 215
prep_check_meta_names, 216, *222*
prep_clean_labels, 218
prep_combine_report_summaries, 220
prep_combine_report_summaries(), *229–231*, *254, 255*, *260*
prep_compare_meta_with_study, 221
prep_create_meta, *213*, 222, *291*
prep_create_meta_data_file, 223
prep_create_storr_factory, 223
prep_create_storr_factory(), *242*
prep_datatype_from_data, 224
prep_datatype_from_data(), *256*
prep_deparse_assignments, 225
prep_deregister_progress_hook, 226
prep_dq_data_type_of, *149*, 226
prep_expand_codes, 227
prep_extract_cause_label_df, *208*, 228
prep_extract_classes_by_functions, 229
prep_extract_classes_by_functions(), *220*, *230, 231*, *254, 255*, *260*
prep_extract_summary, *220*, 229
prep_extract_summary(), *220*, *229–231*, *254, 255*, *259, 260*
prep_extract_summary.dataquieR_result, 230
prep_extract_summary.dataquieR_result(), *220*, *229–231*, *254, 255*, *260*
prep_extract_summary.dataquieR_resultset2, 231
prep_extract_summary.dataquieR_resultset2(), *220*, *229, 230*, *254, 255*, *260*
prep_fix_meta_id_dups, 231
prep_get_data_frame, *210*, 233, *241*, *243*
prep_get_data_frame(), *93*, *210*, *239–241*, *243*, *252, 253*
prep_get_labels, 234
prep_get_study_data_segment, 236
prep_get_user_name, 237
prep_guess_encoding, 237
prep_is_translated, 238
prep_link_escape, 238
prep_list_dataframes, 239
prep_list_dataframes(), *210*, *234*, *241*, *243*, *252, 253*
prep_list_voc, 239
prep_load_folder_with_metadata, 240
prep_load_folder_with_metadata(), *210*, *234*, *239*, *243*, *252, 253*
prep_load_report, 241
prep_load_report_from_backend, 242
prep_load_workbook_like_file, *10*, *12, 13*, *15, 16*, *18, 19*, *22*, *24, 25*, *28*, *30*, *32*, *34*, *36*, *38*, *40*, *50–52*, *54*, *56*, *58*, *60*, *62*, *64*, *66*, *68*, *70, 71*, *150*, *152, 153*, *155*, *162*, *166*, *170*, *180, 181*, *183–187*, *189, 190*, *192–195*, *207, 208*, *210, 211*, *213*, *215–217*, *219*, *221*, *227, 228*, *232*, *234–236*, 243, *244*, *257*, *274*
prep_load_workbook_like_file(), *210*, *234*, *239*, *241*, *252, 253*, *291*
prep_map_labels, *149*, 244
prep_merge_study_data, 245
prep_meta_data_v1_to_item_level_meta_data, 246
prep_min_obs_level, 247
prep_open_in_excel, 247
prep_pmap, 248
prep_prepare_dataframes, 249
prep_purge_data_frame_cache, *10*, *12, 13*, *15, 16*, *18, 19*, *22*, *24, 25*, *28*, *30*, *32*, *34*, *36*, *38*, *40*, *50–52*, *54*, *56*, *58*, *60*, *62*, *64*, *66*, *68*, *70, 71*, *150*, *152, 153*, *155*, *162*, *166*, *170*, *180, 181*, *183–187*, *189, 190*, *192–195*, *207,*

208, 211, 213, 215–217, 219, 221, 227, 228, 232, 233, 235, 236, 244, 251, 257, 274
prep_purge_data_frame_cache(), 210, 234, 239–241, 243, 253
prep_realize_ggplot, 252
prep_realize_ggplot(), 108
prep_register_progress_hook, 252
prep_remove_from_cache, 253
prep_remove_from_cache(), 210, 234, 239–241, 243, 252
prep_render_pie_chart_from_summaryclasses_ggplot2, 254
prep_render_pie_chart_from_summaryclasses_ggplot2(), 220, 229–231, 255, 260
prep_render_pie_chart_from_summaryclasses_plotly, 255
prep_render_pie_chart_from_summaryclasses_plotly(), 220, 229–231, 254, 260
prep_robust_guess_data_type, 255
prep_robust_guess_data_type(), 224
prep_save_report, 256
prep_scalelevel_from_data_and_metadata, 257
prep_scalelevel_from_data_and_metadata(), 249
prep_set_backend, 258
prep_set_backend(), 43
prep_study2meta, 250, 258
prep_summary_to_classes, 259
prep_summary_to_classes(), 220, 229–231, 254, 255
prep_title_escape, 260
prep_undisclose, 260
prep_unsplit_val_tabs, 261
prep_valuelabels_from_data, 261
print.dataquieR_report_by, 262
print.dataquieR_result, 263
print.dataquieR_resultset, 146, 168, 263
print.dataquieR_resultset2, 264
print.dataquieR_resultset2(), 168, 172, 262
print.dataquieR_summary, 265
print.dataquieR_translated, 266
print.DataSlot, 267
print.FlaggedStudyData, 267
print.interval, 268
print.list, 268
print.master_result, 269
print.numeric_with_unit, 269
print.ReportSummaryTable, 270
print.Slot, 271
print.StudyDataSlot, 271
print.TableSlot, 272
print.util_pairs_ggplot_panels, 272
printed, 168
pro_applicability_matrix, 273
progress_init_fkt, 73–146, 273
PROPORTION_LIMIT_LOW, 295
PROPORTION_LIMIT_LOW (WELL_KNOWN_META_VARIABLE_NAMES), 293
PROPORTION_LIMIT_UP, 295
PROPORTION_LIMIT_UP (WELL_KNOWN_META_VARIABLE_NAMES), 293
PROPORTION_RANGE, 295
PROPORTION_RANGE (WELL_KNOWN_META_VARIABLE_NAMES), 293
PSYCHOMETRIC_ANT, 43–46, 48, 57, 58, 148, 196–201, 275, 276–278, 280, 282, 287, 288, 292, 293
PSYCHOMETRIC_SYN, 43–46, 48, 57, 58, 148, 196–201, 275, 276, 277, 278, 280, 282, 287, 288, 292, 293

rbind.ReportSummaryTable, 276
readr::guess_parser(), 256
RECODE_CASES, 295
RECODE_CASES (WELL_KNOWN_META_VARIABLE_NAMES), 293
RECODE_CONTROL, 295
RECODE_CONTROL (WELL_KNOWN_META_VARIABLE_NAMES), 293
RECOMMENDED (VARATT_REQUIRE_LEVELS), 291
RELCOMPL_SPEED, 43–46, 48, 57, 58, 148, 196–201, 275–277, 277, 278, 280, 282, 287, 288, 292, 293
REPEATED_MEASURES_METRIC, 43–46, 48, 57, 58, 148, 196–201, 275–277, 277, 278, 280, 282, 287, 288, 292, 293
REPEATED_MEASURES_METRIC_SETTING, 43–46, 48, 57, 58, 148, 196–201,

275–278, 278, 280, 282, 287, 288, 292, 293
REPEATED_MEASURES_REFERENCE, 43–46, 48, 57, 58, 148, 196–201, 275–278, 278, 280, 282, 287, 288, 292, 293
REPEATED_MEASURES_VARS, 295
REPEATED_MEASURES_VARS (WELL_KNOWN_META_VARIABLE_NAMES), 293
REQUIRED (VARATT_REQUIRE_LEVELS), 291
resnames, 279
resnames.dataquieR_resultset2, 279
RESPT_PER_ITEM, 43–46, 48, 57, 58, 148, 196–201, 275–278, 280, 280, 282, 287, 288, 292, 293
robustbase::mc, 33, 37
RULE (CONTRADICTION_TERM), 57

SCALE_ACRONYM, 43–46, 48, 57, 58, 148, 196–201, 275–278, 280, 280, 282, 287, 288, 292, 293
SCALE_LEVEL, 134, 135, 281, 294
SCALE_LEVEL (WELL_KNOWN_META_VARIABLE_NAMES), 293
SCALE_LEVELS, 281
SCALE_NAME, 43–46, 48, 57, 58, 148, 196–201, 275–278, 280, 281, 287, 288, 292, 293
SEGMENT_ID_REF_TABLE, 282, 282
SEGMENT_ID_TABLE, 282
SEGMENT_ID_VARS, 283
SEGMENT_MISS, 283
SEGMENT_PART_VARS, 283
SEGMENT_RECORD_CHECK, 284
SEGMENT_RECORD_COUNT, 284
SEGMENT_UNIQUE_ID, 284
SEGMENT_UNIQUE_ROWS, 285
set, 30, 34, 38
set (DATA_TYPES), 148
SOFT_LIMIT_LOW, 294
SOFT_LIMIT_LOW (WELL_KNOWN_META_VARIABLE_NAMES), 293
SOFT_LIMIT_UP, 294
SOFT_LIMIT_UP (WELL_KNOWN_META_VARIABLE_NAMES), 293
SOFT_LIMITS, 294
SOFT_LIMITS (WELL_KNOWN_META_VARIABLE_NAMES), 293
SPLIT_CHAR, 285
STANDARDIZED_VOCABULARY_TABLE, 291, 295
STANDARDIZED_VOCABULARY_TABLE (WELL_KNOWN_META_VARIABLE_NAMES), 293
STRING (DATA_TYPES), 148
string, 149
string (DATA_TYPES), 148
STRUCTURED_TEXT_SCHEMA, 295
STRUCTURED_TEXT_SCHEMA (WELL_KNOWN_META_VARIABLE_NAMES), 293
study_data, 188, 245, 285
STUDY_SEGMENT, 54, 170, 230, 231, 294
STUDY_SEGMENT (WELL_KNOWN_META_VARIABLE_NAMES), 293
SUM_ATTENTION_CHECK_ITEMS, 43–46, 48, 57, 58, 148, 196–201, 275–278, 280, 282, 287, 288, 292, 293
summary(), 205, 265
summary.dataquieR_resultset, 146, 168, 286
summary.dataquieR_resultset2, 286

TECHNICAL (VARATT_REQUIRE_LEVELS), 291
TIME (DATA_TYPES), 148
time (DATA_TYPES), 148
TIME_VAR, 294
TIME_VAR (WELL_KNOWN_META_VARIABLE_NAMES), 293
TIME_VAR_END, 294
TIME_VAR_END (WELL_KNOWN_META_VARIABLE_NAMES), 293
to_basic.GeomPointrangeRobust, 288
TOTRESPT, 43–46, 48, 57, 58, 148, 196–201, 275–278, 280, 282, 287, 288, 292, 293

UNIT, 294
UNIT (WELL_KNOWN_META_VARIABLE_NAMES), 293
UNIT_IS_COUNT, 289, 289, 290, 295
UNIT_PREFIX_FACTORS, 289, 290, 290, 295

UNIT_PREFIXES, *289*, 289, *290*, *295*
UNIT_SOURCES, *289, 290*, 290, *295*
UNITS, *289*, 289, *290*, *293*, *295*
units::valid_udunits(), *289, 290*
units::valid_udunits_prefixes(), *289, 290*
UNIVARIATE_OUTLIER_CHECKTYPE, *201*, *295*
UNIVARIATE_OUTLIER_CHECKTYPE (WELL_KNOWN_META_VARIABLE_NAMES), 293
UNKNOWN (VARATT_REQUIRE_LEVELS), 291

value/missing-lists, 290
VALUE_LABEL_TABLE, *291*, *294*
VALUE_LABEL_TABLE (WELL_KNOWN_META_VARIABLE_NAMES), 293
value_label_table (value/missing-lists), 290
VALUE_LABELS, *144*, *294*
VALUE_LABELS (WELL_KNOWN_META_VARIABLE_NAMES), 293
VAR_NAMES, *209*, *230, 231*, *235*, *292*, *294*
VAR_NAMES (WELL_KNOWN_META_VARIABLE_NAMES), 293
VARATT_REQUIRE_LEVELS, *217*, *222*, *250*, *259*, 291
variable, *10, 11*, *13, 14*, *16*, *18, 19*, *21*, *25*, *27*, *30*, *32*, *34, 35*, *38*, *40*, *49*, *51*, *54, 55*, *58*, *60*, *64*, *66*, *68*, *70, 71*, *151*, *153, 154*, *163*, *167*, *170, 171*, *183*, *186, 187*, *206*, *211*, *235*, *257*
variable (DATA_TYPES), 148
variable attribute, *10, 11*, *13, 14*, *16*, *18, 19*, *21*, *24, 25*, *27*, *30*, *32*, *34–36*, *38*, *40*, *49*, *51, 52*, *54, 55*, *58*, *60*, *62*, *64*, *66*, *68*, *70, 71*, *148*, *150, 151*, *153, 154*, *162*, *166*, *170*, *181*, *183–187*, *190*, *194, 195*, *207*, *209*, *211*, *221*, *228*, *235*, *246*, *257*, *274*, *281*
variable attribute (WELL_KNOWN_META_VARIABLE_NAMES), 293
variable list, *10*, *13*, *21*, *23*, *27*, *30*, *32*, *40*, *54, 55*, *206*, *224*, *247*, *261*
variable list (DATA_TYPES), 148
variable roles, *34*, *38*, *54*
variable roles (VARIABLE_ROLES), 293
VARIABLE_LIST, *43–46*, *48*, *57, 58*, *148*, *196–201*, *275–278*, *280*, *282*, *287, 288*, 292, *293*
VARIABLE_LIST_ORDER, *43–46*, *48*, *57, 58*, *148*, *196–201*, *275–278*, *280*, *282*, *287, 288*, *292*, 292
VARIABLE_ORDER, *294*
VARIABLE_ORDER (WELL_KNOWN_META_VARIABLE_NAMES), 293
VARIABLE_ROLE, *294*
VARIABLE_ROLE (WELL_KNOWN_META_VARIABLE_NAMES), 293
VARIABLE_ROLES, *48*, 293

WELL_KNOWN_META_VARIABLE_NAMES, *222*, *289, 290*, 293