

Package ‘xkcd’

August 20, 2026

Type Package

Title Plotting 'ggplot2' Graphics in an 'XKCD' Style

Version 0.1.1

Date 2026-08-19

VignetteBuilder knitr

Description Provides custom geoms and themes to create charts and graphics in the distinctive, hand-drawn 'XKCD' webcomic style using the 'ggplot2' framework. The package utilizes custom layers for jittered lines, segments, circles, and figures, and includes a theme that supports the necessary 'XKCD' font.

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URL <https://github.com/ToledoEM/xkcd>, <https://toledoem.github.io/xkcd/>

BugReports <https://github.com/ToledoEM/xkcd/issues>

Depends R (>= 4.0), ggplot2 (>= 3.4.0)

Imports Hmisc, stats, grid, extrafont

Suggests knitr, rmarkdown, zoo, reshape, splancs, pkgdown,
palmerpenguins, dplyr, ggrepel, systemfonts, covr, testthat (>= 3.0.0)

Encoding UTF-8

Config/testthat/edition 3

Config/roxygen2/version 8.1.0

NeedsCompilation no

Author Emilio Torres-Manzanera [aut],
Enrique Toledo [ctb, cre]

Maintainer Enrique Toledo <enriquetoledo@gmail.com>

Repository CRAN

Date/Publication 2026-08-20 00:30:02 UTC

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xkcd-package	<i>Plotting 'ggplot2' Graphics in an 'XKCD' Style</i>
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Description

Provides custom geoms and themes to create charts and graphics in the distinctive, hand-drawn 'XKCD' webcomic style using the 'ggplot2' framework. The package utilizes custom layers for jittered lines, segments, circles, and figures, and includes a theme that supports the necessary 'XKCD' font.

Details

The DESCRIPTION file:

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Version:	0.1.1
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Authors@R:	c(person(given = "Emilio", family = "Torres-Manzanera", role = "aut", email= "torres@uniovi.es",
VignetteBuilder:	knitr
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Author:	Emilio Torres-Manzanera [aut], Enrique Toledo [ctb, cre]
Maintainer:	Enrique Toledo <enriquetoledo@gmail.com>

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xkcd-package	Plotting 'ggplot2' Graphics in an 'XKCD' Style
xkcdaxis	Plot the axis
xkcdman	Draw a stick figure
xkcdrect	Draw fuzzy rectangles

Author(s)

Emilio Torres-Manzanera [aut], Enrique Toledo [ctb, cre]

Maintainer: Enrique Toledo <enriquetoledo@gmail.com>

Examples

```
## Not run: vignette("xkcd-intro")
```

GeomXkcdRect	<i>GeomXkcdRect: fuzzy rectangle geom (XKCD style)</i>
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Description

Draws each rectangle as a standard filled rect with four jittered, Bezier-smoothed border segments on top.

geom_xkcdpath	<i>GeomXkcdPath: fuzzy path/circle geom (XKCD style)</i>
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Description

A ggplot2 geom that draws jittered, smoothed paths or fuzzy circles. It expects aesthetics like 'x', 'y', and either 'xend'/'yend' (for segments) or 'diameter' (for circles). Additional aesthetics (colour, alpha, linewidth, linetype) are respected.

Usage

```
geom_xkcdpath(  
  mapping = NULL,  
  data = NULL,  
  stat = "identity",  
  position = "identity",  
  ...,  
  xjitteramount = 0.01,  
  yjitteramount = 0.01,
```

```

    wobble = 1,
    seed = NULL,
    mask = TRUE,
    show.legend = NA,
    inherit.aes = TRUE
  )

```

Arguments

mapping	Aesthetic mapping.
data	Data frame.
stat	The statistical transformation to use on the data for this layer.
position	Position adjustment.
...	Other arguments passed on to layer().
xjitteramount	Horizontal jitter amount for segments, in data units.
yjitteramount	Vertical jitter amount for segments, in data units.
wobble	Scalar multiplier applied to both jitter amounts. '1' leaves the jitter amounts unchanged; '0' draws straight lines.
seed	Optional integer. When supplied the wobble is reproducible: the same 'seed' always yields the same path. Each row of 'data' is offset from 'seed' so rows still differ from one another. The global RNG state is left untouched.
mask	Logical; if TRUE draws a thicker white mask path under the main path.
show.legend	Show legend.
inherit.aes	Whether to inherit aesthetics from the plot.

theme_xkcd	<i>Creates an XKCD theme</i>
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Description

This function creates an XKCD theme, applying the 'xkcd' font if available.

Usage

```
theme_xkcd()
```

Value

A [theme](#) object.

Note

The "xkcd" font must be installed on your system for the full effect. Modern graphics devices pick it up directly; registering it with `extrafont` is only needed for pdf/postscript output. See the vignette `vignette("xkcd-intro")` for installation instructions.

Examples

```
## Not run:
# Assuming 'xkcd' font is installed and registered:
p <- ggplot(mtcars, aes(mpg, wt)) +
  geom_point() +
  theme_xkcd()
p

## End(Not run)
```

xkcdaxis

Plot the axis

Description

This function plots the axis in an XKCD style.

Usage

```
xkcdaxis(xrange, yrange, ...)
```

Arguments

xrange	The range of the X axis.
yrange	The range of the Y axis.
...	Other arguments passed to <code>geom_xkcdpath</code> .

Value

A list of layers containing the axes, coordinate system, and theme.

Examples

```
## Not run:
xrange <- range(mtcars$mpg)
yrange <- range(mtcars$wt)
p <- ggplot() +
  geom_point(aes(mpg, wt), data=mtcars) +
  xkcdaxis(xrange,yrange)
p

## End(Not run)
```

xkcdman	<i>Draw a stick figure</i>
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Description

Draws one stick figure per row of ‘data’. The figure is built from eight fuzzy elements – a circular head plus seven bones (spine, two humeri, two radii and two legs) – which are emitted as just two [geom_xkcdpath()] layers.

Usage

```
xkcdman(mapping, data, seed = NULL, ...)
```

Arguments

mapping	Aesthetic mapping
data	Dataset
seed	Optional integer for a reproducible figure. See [geom_xkcdpath()].
...	Optional arguments passed on to [geom_xkcdpath()].

Details

The following aesthetics are required, supplied through ‘mapping’ or as columns of ‘data’: ‘x’ and ‘y’ (centre of the head), ‘scale’ (overall size), ‘ratioxy’ (the x/y scale ratio, which keeps the figure from being distorted when the axes have different units), and the angles ‘angleofspine’, ‘anglerighthumerus’, ‘anglelefthumerus’, ‘anglerightradius’, ‘angleleftradius’, ‘anglerightleg’, ‘angleleftleg’ and ‘angleofneck’.

See Also

[geom_xkcdpath()]

xkcdrect	<i>Draw fuzzy rectangles</i>
----------	------------------------------

Description

It draws fuzzy rectangles.

Usage

```
xkcdirect(
  mapping = NULL,
  data = NULL,
  stat = "identity",
  position = "identity",
  ...,
  borderxjitteramount = 0.005,
  borderyjitteramount = 0.005,
  wobble = 1,
  seed = NULL,
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE,
  fillcolour,
  bordercolour,
  borderlinewidth
)
```

Arguments

<code>mapping</code>	Mapping between variables and aesthetics generated by aes . See Details.
<code>data</code>	Dataset used in this layer.
<code>stat</code>	The statistical transformation to use on the data for this layer.
<code>position</code>	Position adjustment.
<code>...</code>	Other arguments passed on to layer .
<code>borderxjitteramount</code>	Horizontal jitter amount for the border.
<code>borderyjitteramount</code>	Vertical jitter amount for the border.
<code>wobble</code>	Scalar multiplier applied to both jitter amounts. 1 leaves them unchanged; 0 draws straight borders.
<code>seed</code>	Optional integer for a reproducible border. See geom_xkcdpath .
<code>na.rm</code>	If FALSE, missing values are removed with a warning.
<code>show.legend</code>	Show legend.
<code>inherit.aes</code>	Whether to inherit aesthetics from the plot.
<code>fillcolour</code>	Deprecated. Use the <code>fill</code> aesthetic.
<code>bordercolour</code>	Deprecated. Use the <code>colour</code> aesthetic.
<code>borderlinewidth</code>	Deprecated. Use the <code>linewidth</code> aesthetic.

Details

This function draws rectangles with hand-drawn, wobbly borders.

The following aesthetics are required:

1. xmin
2. ymin
3. xmax
4. ymax

The fill and border are controlled with the standard fill, colour and linewidth aesthetics, so they may be mapped to variables in the usual way.

Value

A layer.

See Also

[aes](#), [geom_xkcdpath](#)

Examples

```
## Not run:
volunteers <- data.frame(year = c(2007:2011),
                          number = c(56470, 56998, 59686, 61783, 64251))

xrange <- range(volunteers$year)
yrange <- range(volunteers$number)

p <- ggplot() +
  xkcdrect(aes(xmin = year - 0.2,
              xmax = year + 0.2,
              ymin = number - 500,
              ymax = number + 500),
          data = volunteers,
          fill = "pink",
          linewidth = 1.2) +
  geom_point(aes(x = year, y = number), data = volunteers) +
  xkcdaxis(xrange, yrange) +
  theme_xkcd()

p

## End(Not run)
```

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