# cosmoGUI

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constraintBuilder GUI assistance for constructing constraint sets

#### **Description**

This command opens a series of user-friendly pop-up windows that will help the user adapt sample constraints or build new constraints from scratch.

#### Usage

```
constraintBuilder()
```

#### **Details**

There are five sample constraints the user can modify: ICstep (the information content is a constant across the intervals), ICbound (the information content is bounded across each interval, V-shaped (the information content follows a symetric and continuous high-low-high), A-shaped (the information content follows a symetric and continuous low-high-low), Submotif (a segment of the motif is known).) The uiser also has the option of building a constraint set from scratch. The user will then be taken through a step-by-step construction (interval setup, palindromic intervals constraints, information content constraints, nucleotide frequencies constraints and submotif constraints.)

### Value

The function returns an object of class constraint set, which can be passed to cosmo() as the constraints argument or plotted using the plot() function.

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#### **Examples**

```
#cs <- constraintBuilder()
#plot(cs)</pre>
```

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