# Package 'ggtangle'

October 30, 2024
Title Draw Network with Data
Version 0.0.4
<b>Description</b> Extends the 'ggplot2' plotting system to support network visualization. Inspired by 'ggtree', 'ggtangle' is designed to work with network associated data.
<b>Imports</b> ggfun (>= 0.1.7), ggplot2, ggrepel, igraph, rlang, yulab.utils (>= 0.1.7)
Suggests aplot, ggtree, knitr, prettydoc, rmarkdown, scatterpie (>= 0.2.4)
VignetteBuilder knitr
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NeedsCompilation no
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2 cnetplot

cnetplot

category-item network plot

# Description

category-item network plot

# Usage

```
cnetplot(
  х,
  layout = igraph::layout_nicely,
  showCategory = 5,
  color_category = "#E5C494",
  size_category = 1,
  color_item = "#B3B3B3",
  size_item = 1,
  color_edge = "grey",
  size\_edge = 0.5,
  node_label = "all",
  foldChange = NULL,
  hilight = "none",
 hilight_alpha = 0.3,
)
## S3 method for class 'list'
cnetplot(
  Х,
  layout = igraph::layout_nicely,
  showCategory = 5,
  color_category = "#E5C494",
  size_category = 1,
  color_item = "#B3B3B3",
  size_item = 1,
  color_edge = "grey",
  size\_edge = 0.5,
  node_label = "all",
  foldChange = NULL,
  hilight = "none",
  hilight_alpha = 0.3,
)
```

## **Arguments**

Х

input object

drag\_network 3

network layout layout showCategory selected category to be displayed color\_category color of category node size\_category relative size of the category color of item node color\_item size\_item relative size of the item (e.g., genes) color\_edge color of edge size\_edge relative size of edge node\_label one of 'all', 'none', 'category' and 'item' foldChange numeric values to color the item (e.g, foldChange of gene expression values) hilight selected category to be highlighted hilight\_alpha transparent value for not selected to be highlight additional parameters

drag\_network

Drag the nodes of a network to update the layout of the network

#### Description

Drag the nodes of a network to update the layout of the network

#### Usage

```
drag_network(p, g = NULL)
```

## **Arguments**

p the network diagram as a ggplot/gg/ggraph object.

g an corresponding igraph object. Default is to extract from the 'ggraph' attribute.

### Value

an updated ggplot/gg/ggraph object

#### **Examples**

4 geom\_edge

geom\_edge

layer to draw edges of a network

## Description

layer to draw edges of a network

## Usage

```
geom_edge(mapping = NULL, data = NULL, geom = geom_segment, ...)
```

# Arguments

```
mapping aesthetic mapping, default is NULL
data data to plot, default is NULL
geom geometric layer to draw lines
... additional parameter passed to 'geom'
```

#### Value

line segments layer

# **Examples**

# **Index**

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