Package 'gridGraphviz'

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Version 0.3-1

Depends R (>= 2.15.0), grid, graph, Rgraphviz

Imports methods

Suggests gridSVG

SystemRequirements graphviz

Title Drawing Graphs with 'grid'

Description Functions for drawing node-and-edge graphs that have been laid out by 'graphviz'. This provides an alternative rendering to that provided by the 'Rgraphviz' package, with two main advantages: the rendering provided by 'gridGraphviz' should be more similar to what 'graphviz' itself would draw; and rendering with 'grid' allows for post-hoc customisations using the named viewports and grobs that 'gridGraphviz' produces.

License GPL (>= 2)

URL https://r-forge.r-project.org/projects/gridgraph/

NeedsCompilation no

Author Paul Murrell [cre, aut], Ashley Noel Hinton [aut]

Maintainer Paul Murrell <p.murrell@auckland.ac.nz>

Repository CRAN

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agopenTrue

Description

This function is a wrapper for the **Rgraphviz** function agopen and will produce a laidout Ragraph object with layout more true to the result produced by graphviz.

Usage

```
agopenTrue(graph, name, nodes, edges, kind = NULL, layoutType = "dot",
    attrs = list(), nodeAttrs = list(), edgeAttrs = list(),
    subGList = list(), edgeMode = edgemode(graph),
    recipEdges = c("combined", "distinct"))
```

Arguments

graph	An object of class graphNEL
nodes	A list of pNode objects
edges	A list of pEdge objects
name	The name of the graph
kind	The type of graph
layoutType	Defines the layout engine. Defaults to dot, and see graphvizCapabilities()\$layoutTypes for possible values.
attrs	A list of graphviz attributes
nodeAttrs	A list of specific node attributes
edgeAttrs	A list of specific edge attributes
subGList	A list describing subgraphs for the graph parameter
edgeMode	Whether the graph is directed or undirected
recipEdges	How to handle reciprocated edges, defaults to combined

Details

As of Rgraphviz version 2.2.1 (2013-01-31) agopen:

- Produces graphs of the same size as the current device, or at a default size of 7x7 inches.
- Forces nodes to fixed default height and width.
- Does not pass through edge weight information.

This function returns an Ragraph object with graph and node sizes set by graphviz or by the user. It also ensures edge weight information is passed through.

Value

An object of class Ragraph

graphWidth

Author(s)

Ashley Noel Hinton

References

graphviz

See Also

agopen

Examples

graphWidth

Get width/height of an Ragraph object

Description

These functions will return the width or height of an Rgraphviz Ragraph object in inches.

Usage

graphWidth(graph)
graphHeight(graph)

Arguments

graph a laidout Ragraph object

Value

A numeric vector of length 1.

Author(s)

Ashley Noel Hinton

References

graphviz

See Also

Ragraph

Examples

grid.graph

Draw a Node-and-Edge Graph

Description

Take a description of the layout of a graph, as produced by the **Rgraphviz** package, and draw it.

Usage

grid.graph(rag, newpage = FALSE, nodesOnTop = TRUE)

Arguments

rag	An Ragraph object (must be laid out).
newpage	Logical value indicating whether to draw the graph on a new page.
nodes0nTop	Logical value indicating whether nodes should be drawn after edges (or vice versa).

Author(s)

Paul Murrell

References

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