

Package ‘gridDebug’

July 22, 2025

Version 0.5-1

Depends R (>= 3.0)

Imports methods, grid, graph, gridGraphviz, gridSVG (>= 1.1)

Suggests lattice, ggplot2

SystemRequirements graphviz

Title Debugging 'grid' Graphics

Author Paul Murrell and Velvet Ly.

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

Description Functions for drawing scene trees representing scenes that have been drawn using grid graphics.

License GPL (>= 2)

NeedsCompilation no

Repository CRAN

Date/Publication 2020-06-30 04:50:02 UTC

Contents

gridTree	1
gridTreeTips	3
grobBrowser	3

Index	5
--------------	-------------------

gridTree	<i>Draw a grid scene graph</i>
----------	--------------------------------

Description

This function draws a node-and-edge graph representing the current **grid** scene.

Usage

```
gridTree(grobNodeAttrs=list(shape="circle", fillcolor="black",
                             fontcolor="white"),
         vpNodeAttrs=list(shape="box", fillcolor="grey90",
                             fontcolor="black"),
         grob2grobAttrs=list(color="black", lty="solid", lwd=1),
         vp2vpAttrs=list(color="black", lty="solid", lwd=1),
         grob2vpAttrs=list(color="black", lty="dotted", lwd=1),
         vp2grobAttrs=list(color="grey", lty="solid", lwd=2),
         split=TRUE, grid=TRUE,
         grobs=TRUE, viewports=TRUE, draw=TRUE)
```

Arguments

<code>grobNodeAttrs</code>	Named list of attribute settings for nodes representing grobs.
<code>vpNodeAttrs</code>	Named list of attribute settings for nodes representing viewports.
<code>grob2grobAttrs</code>	Named list of attribute settings for edges between two grobs.
<code>vp2vpAttrs</code>	Named list of attribute settings for edges between two viewports.
<code>grob2vpAttrs</code>	Named list of attribute settings for edges from a grob to a viewport.
<code>vp2grobAttrs</code>	Named list of attribute settings for edges from a viewport to a grob.
<code>split</code>	Logical indicating whether to break long node names across multiple lines.
<code>grid</code>	Logical indicating whether to draw the graph using traditional graphics or grid .
<code>grobs</code>	Logical indicating whether to include nodes in the graph for grobs in the scene.
<code>viewports</code>	Logical indicating whether to include nodes in the graph for viewports in the scene.
<code>draw</code>	Logical indicating whether to draw the graph.

Details

The attribute names must be valid graphviz attribute names.

Value

Invisibly returns a graph object.

Author(s)

Paul Murrell

gridTreeTips	<i>Add tooltips to a grid scene graph.</i>
--------------	--

Description

Produces an SVG version of a scene graph with tooltips that show node labels when the mouse hovers over a graph node.

Usage

```
gridTreeTips(filename = "Rplots.svg", ..., grid = TRUE)
```

Arguments

filename	The name of the SVG file that is produced.
...	Arguments that will be passed to <code>gridTree()</code> .
grid	Logical indicating whether to draw the scene graph using <code>grid</code> ; setting this to <code>FALSE</code> will produce an error.

Details

This function first produces a grid scene graph from the current page, then produces an SVG version (with tooltips).

Author(s)

Paul Murrell

See Also

[gridTree](#)

grobBrowser	<i>Add tooltips to a grid scene.</i>
-------------	--------------------------------------

Description

Produces an SVG version of a grid scene with tooltips that show grob labels when the mouse hovers over a grob.

Usage

```
grobBrowser(filename = "Rplots.svg")
```

Arguments

filename The name of the SVG file that is produced.

Author(s)

Paul Murrell

See Also

[gridTree](#)

Index

* **dplot**

gridTree, [1](#)

gridTreeTips, [3](#)

grobBrowser, [3](#)

gridTree, [1](#), [3](#), [4](#)

gridTreeTips, [3](#)

grobBrowser, [3](#)