Package 'visNICE'

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Type Package

Title Visualise NICE Guidance Documents in a Network

Version 1.0.0

Imports tidyr, rlang, plotly, dplyr, purrr, methods, stringr, graphlayouts, igraph

Description Plots networks and subnetworks with NICE documents organised in a hierarchy.

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Encoding UTF-8

URL https://github.com/jnm212/visNICE, https://jnm212.github.io/visNICE/

BugReports https://github.com/jnm212/visNICE/issues

Depends R (>= 4.1.0)

RoxygenNote 7.3.2

NeedsCompilation no

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`cutting,nicetree-method` *take a cutting from a tree (object of class nicetree)*

Description

A subtree is formed with the specified node at the root. This is a 'cutting': all nodes that are not descendents of the specified node are eliminated. The function returns a (smaller) tree (object of class nicetree), with the specified node as the root.

Usage

```
## S4 method for signature 'nicetree'
cutting(h, nodelabel = NULL)
```

Arguments

`h`	an object of class nicetree
`nodelabel`	node of interest

Value

object of class nicetree

Examples

```
h <- nicetree()
(h)
subh <- cutting(h, "CANCER")
(subh)
```

`nicetree` *constructor for nicetree objects*

Description

constructor for nicetree objects

Usage

```
nicetree()
```

Details

make a nicetree

Value

an object of class nicetree

Examples

```
h <- nicetree()
```

`nicetree-class` *class to represent a tree for nice hierarchy*

Description

class to represent a tree for nice hierarchy

Slots

`node` node id

`pnode` parent node id

`lab` doc code

`plab` parent doc code

`text` nice textual info

`drugnames` common names for drugs where known

`lev` level of each node (root node is 0)

`Nnode` number of nodes in the tree excluding root node

`Nlev` number of levels in the tree excluding root node

`doctype` NICE document type

`plot,nicetree-method` *plot the tree as a network graph*

Description

plot the tree as a network graph

Usage

```
## S4 method for signature 'nicetree'
plot(
  x,
  circle = TRUE,
  add_text = FALSE,
  leaf_label = FALSE,
  stem_label = TRUE,
  include_names = FALSE,
  text_size = 10,
  text_angle = 45,
  width = 500,
  height = 500,
  hover_msg = TRUE
)
```

Arguments

x	a tree (object of class nicetree)
circle	whether or not to arrange graph over a circle
add_text	whether or not to label with textual info
leaf_label	whether or not leaf nodes will be labelled
stem_label	whether or not stem nodes will be labelled
include_names	whether or not to include common names in text
text_size	annotation text size
text_angle	annotation text angle
width	graph width
height	graph height
hover_msg	whether to remind the user that they can hover over nodes

Details

plots an object of class nicetree as a network, with some display options. Users can hover over nodes to display textual information that would otherwise clutter up the graph.

Value

object of class plotly

Examples

```
h <- nicetree()
cutting(h, "SKINCO") |> plot()
```

show,nicetree-method *summarise nicetree object*

Description

Prints to console the number of nodes and levels and a cross-table, excluding the root node. Also prints the root node and names of the first layer in the tree (children of the root node).

Usage

```
## S4 method for signature 'nicetree'
show(object)
```

Arguments

object	of class nicetree

Value

prints summary to console

Examples

```
h <- nicetree()
(h)
```

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