Package 'vtree'

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utroo:	a tool for	calculating and drawing variable trees	
			vtree: a tool for calculating and drawing variable trees.

Description

vtree is a flexible tool for generating variable trees — diagrams that display information about nested subsets of a data frame. Given simple specifications, the vtree function produces these diagrams and automatically labels them with counts, percentages, and other summaries.

With vtree, you can:

- explore a data set interactively, and
- produce customized figures for reports and publications.

For a comprehensive introduction, type: vignette("vtree")

Author(s)

Nick Barrowman <nbarrowman@cheo.on.ca>

See Also

- GitHub page: https://github.com/nbarrowman/vtree
- Report bugs at https://github.com/nbarrowman/vtree/issues

build.data.frame

Build a data frame to display with vtree

Description

Build a data frame by specifying variable names and patterns of values together with frequencies.

Usage

```
build.data.frame(varnames, ...)
```

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Arguments

varnames A vector of variable names.

Lists of patterns and the frequency of each pattern. When a pattern is shorter than the list of variable names (for example, 3 variable names but only 2 values

in the pattern), NA's are substituted for the missing variable names.

Details

Suppose varnames=c("animal", "size", "hair"), then one pattern would be list("dog", "small", "short", 4), which specifies 4 dogs that are small and short-haired. Another pattern could be list("cat", "large", "long", 101), specifying 101 large cats.

Value

A data frame.

Author(s)

Nick Barrowman <nbarrowman@cheo.on.ca>

Examples

```
# Number of countries in Africa, whether population is over 30 million or not,
# and whether landlocked or not.
# https://www.worldometers.info/geography/how-many-countries-in-africa/
#
df <- build.data.frame(
    c("continent","population","landlocked"),
    list("Africa","Over 30 million","landlocked",2),
    list("Africa","Over 30 million","not landlocked",12),
    list("Africa","Under 30 million","landlocked",14),
    list("Africa","Under 30 million","not landlocked",26))</pre>
```

crosstabToCases

Convert a crosstabulation into a data frame of cases.

Description

Convert a table of crosstabulated counts into a data frame of cases.

Usage

```
crosstabToCases(x)
```

Arguments

x a matrix or table of frequencies representing a crosstabulation.

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Value

Returns a data frame of cases.

Author(s)

Nick Barrowman, based on the countsToCases function at http://www.cookbook-r.com/Manipulating_data/Converting_between_data_frames_and_contingency_tables/#countstocases-function

Examples

```
# The Titanic data set is in the datasets package.
# Convert it from a 4 x 2 x 2 x 2 crosstabulation
# to a 4-column data frame of 2201 individuals
titanic <- crosstabToCases(Titanic)</pre>
```

FakeData

Fake clinical dataset

Description

A dataset consisting of made-up clinical data. Note that some observations are missing (i.e. NAs).

Usage

FakeData

Format

A small data frame in which the rows represent (imaginary) patients and the columns represent variables of possible clinical relevance.

id Integer: Patient ID number

Group Factor: Treatment Group, A or B

Severity Factor representing severity of condition: Mild, Moderate, or Severe

Sex Factor: M or F

Male Integer: Sex coded as 1=M, 0=F **Age** Integer: Age in years, continuous

Score Integer: Score on a test

Category Factor: single, double, or triple

Pre Numeric: initial measurement

Post Numeric: measurement taken after something happenedPost2 Numeric: measurement taken at the very end of the study

Time Numeric: time to event, or time of censoring

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Event Integer: Did the event occur? 1=yes, 0=no (i.e. censoring)

Ind1 Integer: Indicator variable for a certain characteristic, 1=present, 0=absent
Ind2 Integer: Indicator variable for a certain characteristic, 1=present, 0=absent
Ind3 Integer: Indicator variable for a certain characteristic, 1=present, 0=absent
Ind4 Integer: Indicator variable for a certain characteristic, 1=present, 0=absent

Viral Logical: Does this patient have a viral illness?

FakeRCT

Fake Randomized Controlled Trial (RCT) data

Description

A dataset consisting of made-up RCT data.

Usage

FakeRCT

Format

A small data frame in which the rows represent (imaginary) patients and the columns represent variables of possible clinical relevance.

id String: Patient ID number

eligible Factor: Eligible or Ineligible

randomized Factor: Randomized or Not randomized

group Factor: A or B

followup Factor: Followed up or Not followed up **analyzed** Factor: Analyzed or Not analyzed

grVizToPNG

Export an htmlwidget object into a PNG file

Description

Export an htmlwidget object (produced by DiagrammerR::grViz) into a PNG file

Usage

```
grVizToPNG(g, width = NULL, height = NULL, folder = ".", filename)
```

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Arguments

g an object produced by the grViz function from the DiagrammmeR package

width the width in pixels of the bitmap height the height in pixels of the bitmap

folder path to folder where the PNG file should stored

filename an optional filename. If not provided, the filename will be derived from the

name of the argument of g.

Details

First the grViz object is exported to an SVG file (using DiagrammeRsvg::export_svg). Then the SVG file is converted to a bitmap (using rsvg::rsvg). Then the bitmap is exported as a PNG file (using png::writePNG). Note that the SVG file and the PNG file will be named using the name of the g parameter

Value

Returns the full path of the PNG file.

Note

In addition to the DiagrammmeR package, the following packages are used: DiagrammeRsvg, rsvg

Author(s)

Nick Barrowman

widget	
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Description

Shiny bindings for vtree

Usage

```
renderVtree(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

expr an expression that generates a variable tree env the environment in which to evaluate expr.

quoted is expr a quoted expression (with quote())? This is useful if you want to save

an expression in a variable.

See Also

```
vtreeOutput, vtree
Other Shiny Functions: init_js(), inlineCssSetup(), use_svgzoom(), vtreeOutput()
```

Examples

svtree

Create a Shiny vtree, with svg-pan-zoom functionality.

Description

'svtree' uses Shiny and the svg-pan-zoom JavaScript library to create a variable tree with panning and zooming functionality. The mousewheel allows you to zoom in or out. The variable tree can also be dragged to a different position.

Usage

```
svtree(...)
```

Arguments

... parameters to be passed to 'vtree'

Details

The svg-pan-zoom library webpage is https://github.com/ariutta/svg-pan-zoom

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use_svgzoom

Setup for interactive Vtree

Description

This function must be called in the UI, in order to make the vtree interactive.

Usage

```
use_svgzoom(
  minheight = "200px",
  cursor_all = "all-scroll",
  overflow = "inherit !important",
  position = "sticky",
  fill = "transparent",
  cursor_text = "pointer",
  init_event = c("mouseenter", "click", "dblclick"),
  onwindow_resize = TRUE,
  shortcuts = TRUE
)
```

Arguments

```
minheight
                  minimum height in "px". Default is "200px".
                  The cursor symbol for the whole SVG. Default is "all-scroll".
cursor_all
overflow
                  Overflow value for the whole SVG. Default is "inherit".
                  CSS position of the SVG. Default is "sticky".
position
                  Fill color for the SVG background. Default is "transparent".
fill
cursor_text
                  The cursor symbol for text nodes. Default is "pointer".
init_event
                  The mouse event to activate zooming and panning. Default is mouseenter.
onwindow_resize
                  Should the SVG be resized when the window size changes? Default is TRUE.
                  Should Keyboard shortcuts be used to control the SVG? Default is TRUE.
shortcuts
```

See Also

```
vtreeOutput, vtree
```

```
Other Shiny Functions: init_js(), inlineCssSetup(), renderVtree(), vtreeOutput()
```

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Examples

```
## Not run:
library(shiny)
library(vtree)
ui <- fluidPage(
  use_svgzoom(),
  helpText(div(style="font-weight: 800; font-size: large; color: black;",
               HTML("Zooming and Panning is possible with mouse-drag ",
                     "and mouse-wheel <br/>or with shortcuts;",
                     " +,- and arrow-keys and CTRL+Backspace to",
                     " resize+fit+center the svg.."))),
  vtreeOutput("vtree", width = "100%", height = "500px")
)
server <- function(input, output, session) {</pre>
  output$vtree <- renderVtree({</pre>
    vtree(FakeData, "Severity Sex",
          labelnode=list(Sex=(c("Male"="M","Female"="F"))),
          pngknit=FALSE)
 })
}
shinyApp(ui, server)
## End(Not run)
```

VennTable

Format an indicator-based pattern table

Description

Given a pattern table produced by vtree for indicator (i.e 0/1) variables, VennTable returns an augmented table. The augmented table includes an extra row with the total for each indicator variable and an extra row with the corresponding percentage (which will not in general add to 100%). Also, optionally, does some additional formatting for pandoc markdown.

Usage

```
VennTable(
    x,
    markdown = FALSE,
    NAcode = "-",
    unchecked = c("0", "FALSE", "No", "no", "not N/A"),
    checked = c("1", "TRUE", "Yes", "yes", "N/A"),
    sort = TRUE
)
```

Arguments Χ

markdown	Format nicely for markdown (see Details).
NAcode	Code to use to represent NAs in markdown formatting
unchecked	Vector of character strings that represent unchecked values; by default: $c("0", "FALSE", "No", "no", "not N/A")$
checked	Vector of character strings that represent checked values; by default: c("1", "TRUE", "Yes", "yes", "N/A"
sort	Sort variables by frequency?

Required: Pattern table produced by vtree for indicator (i.e 0/1) variables

Details

The column totals ignore missing values.

When markdown=TRUE, the row and column headings for percentages are labeled "%", indicator values equal to 1 are replaced by checkmark codes, indicator values equal to 0 are replaced by spaces, and missing indicator values are replaced by dashes. Empty headings are replaced by spaces. Finally the table is transposed.

Value

Returns a character matrix with extra rows containing indicator sums.

Author(s)

Nick Barrowman

Examples

```
# Generate a pattern table for the indicator variables Ind1 and Ind2
ptab <- vtree(FakeData,"Ind1 Ind2",ptable=TRUE)</pre>
# Augment the table
ptab2 <- VennTable(ptab)</pre>
# Print the result without quotation marks (which are distracting)
print(ptab2,quote=FALSE)
# Generate a table with pandoc markdown formatting
ptab3 <- VennTable(ptab,markdown=TRUE)</pre>
```

vtree	Draw a variable tree	

Description

vtree is a tool for drawing variable trees. Variable trees display information about nested subsets of a data frame, in which the subsetting is defined by the values of categorical variables.

Usage

```
vtree(
  z,
  vars,
  splitspaces = TRUE,
  prune = list(),
  prunebelow = list(),
  keep = list(),
  follow = list(),
  prunelone = NULL,
  pruneNA = FALSE,
  prunesmaller = NULL,
  labelnode = list(),
  tlabelnode = NULL,
  labelvar = NULL,
  varminwidth = NULL,
  varminheight = NULL,
  varlabelloc = NULL,
  fillcolor = NULL,
  fillnodes = TRUE,
  NAfillcolor = "white",
  rootfillcolor = "#EFF3FF",
  palette = NULL,
  gradient = TRUE,
  revgradient = FALSE,
  singlecolor = 2,
  colorvarlabels = TRUE,
  title = "",
  sameline = FALSE,
  Venn = FALSE,
  check.is.na = FALSE,
  seq = FALSE,
  pattern = FALSE,
  ptable = FALSE,
  showroot = TRUE,
  text = list(),
  ttext = list(),
  plain = FALSE,
  squeeze = 1,
  showvarinnode = FALSE,
  shownodelabels = TRUE,
  showvarnames = TRUE,
  showlevels = TRUE,
  showpct = TRUE,
  showlpct = TRUE,
  showcount = TRUE,
  showlegend = FALSE,
  varnamepointsize = 18,
```

```
HTMLtext = FALSE,
 digits = 0,
  cdigits = 1,
  splitwidth = 20,
  lsplitwidth = 15,
  getscript = FALSE,
  nodesep = 0.5,
  ranksep = 0.5,
 margin = 0.2,
 vp = TRUE,
  horiz = TRUE,
  summary = "",
  runsummary = NULL,
  retain = NULL,
 width = NULL,
  height = NULL,
  graphattr = "",
  nodeattr = ""
  edgeattr = "",
  color = c("blue", "forestgreen", "red", "orange", "pink"),
  colornodes = FALSE,
 mincount = 1,
 maxcount,
  showempty = FALSE,
  rounded = TRUE,
  nodefunc = NULL,
  nodeargs = NULL,
  choicechecklist = TRUE,
  arrowhead = "normal",
  pxwidth,
  pxheight,
  imagewidth,
  imageheight,
  folder,
  pngknit = TRUE,
  as.if.knit = FALSE,
 maxNodes = 1000,
 parent = 1,
 last = 1,
  root = TRUE
)
```

Arguments

z Required: Data frame, or a single vector.
vars Required (unless z is a vector): Either a charac

Required (unless z is a vector): Either a character string of whitespace-separated variable names or a vector of variable names.

splitspaces When vars is a character string, split it by spaces to get variable names? It is

only rarely necessary to use this parameter. This should only be FALSE when a single variable name that contains spaces is specified. List of vectors that specifies nodes to prune. The name of each element of the list prune must be one of the variable names in vars. Each element is a vector of character strings that identifies the values of the variable (i.e. the nodes) to prune. Like prune but instead of pruning the specified nodes, their descendants are prunebelow pruned. keep Like prune but specifies which nodes to *keep*. The other nodes will be pruned. follow Like keep but specifies which nodes to "follow", i.e. which nodes' descendants to keep. (Deprecated) A vector of values specifying "lone nodes" (of any variable) to prunelone prune. A lone node is a node that has no siblings (an "only child"). (Deprecated) Prune all missing values? This is problematic because "valid" perpruneNA centages are hard to interpret when NAs are pruned. prunesmaller Prune any nodes with count less than specified number. labelnode List of vectors used to change how values of variables are displayed. The name of each element of the list is one of the variable names in vars. Each element of the list is a vector of character strings, representing the values of the variable. The names of the vector represent the labels to be used in place of the values. tlabelnode A list of vectors, each of which specifies a particular node, as well as a label for that node (a "targeted" label). The names of each vector specify variable names, except for an element named label, which specifies the label to use. labelvar A named vector of labels for variables. varminwidth A named vector of minimum initial widths for nodes of each variable. (Sets the Graphviz width attribute.) varminheight A named vector of minimum initial heights for nodes of each variable. (Sets the Graphviz height attribute.) varlabelloc A named vector of vertical label locations ("t", "c", or "b" for top, center, or bottom, respectively) for nodes of each variable. (Sets the Graphviz labelloc attribute.) fillcolor A named vector of colors for filling the nodes of each variable. If an unnamed, scalar color is specified, all nodes will have this color. fillnodes Fill the nodes with color? NAfillcolor

Fill-color for missing-value nodes. If NULL, fill colors of missing value nodes

will be consistent with the fill colors in the rest of the tree.

rootfillcolor Fill-color for the root node.

palette A vector of palette numbers (which can range between 1 and 9). The names

of the vector indicate the corresponding variable. See Palettes below for more

information.

gradient Use gradients of fill color across the values of each variable? A single value

> (with no names) specifies the setting for all variables. A logical vector of TRUE values for named variables is interpreted as TRUE for those variables and FALSE for all others. A logical vector of FALSE values for named variables is interpreted

as FALSE for those variables and TRUE for all others.

revgradient Should the gradient be reversed (i.e. dark to light instead of light to dark)? A

single value (with no names) specifies the setting for all variables. A logical vector of TRUE values for named variables is interpreted as A logical vector of FALSE values for named variables is interpreted as FALSE for those variables and

TRUE for all others.

singlecolor When a variable has a single value, this parameter is used to specify whether

nodes should have a (1) light shade, (2) a medium shade, or (3) a dark shade.

specify singlecolor=1 to assign a light shade.

colorvarlabels Color the variable labels?

title Optional title for the root node of the tree.

sameline Display node labels on the same line as the count and percentage?

Venn Display multi-way set membership information? This provides an alternative

to a Venn diagram. This sets showpct=FALSE and shownodelabels=FALSE. Assumption: all of the specified variables are logicals or 0/1 numeric variables.

check.is.na Replace each variable named in vars with a logical vector indicating whether

or not each of its values is missing?

seq Display the variable tree using "sequences"? Each unique sequence (i.e. pattern)

of values will be shown separately. The sequences are sorted from least frequent

to most frequent.

pattern Same as seq, but lines without arrows are drawn, and instead of a sequence

variable, a pattern variable is shown.

ptable Generate a pattern table instead of a variable tree? Only applies when pattern=TRUE.

showroot Show the root node? When seq=TRUE, it may be useful to set showroot=FALSE.

text A list of vectors containing extra text to add to nodes corresponding to specified

values of a specified variable. The name of each element of the list must be one of the variable names in vars. Each element is a vector of character strings. The names of the vector identify the nodes to which the text should be added. (See

Formatting codes below for information on how to format text.)

ttext A list of vectors, each of which specifies a particular node, as well as text to add

to that node ("targeted" text). The names of each vector specify variable names,

except for an element named text, which specifies the text to add.

plain Use "plain" settings? These settings are as follows: for each variable all nodes

are the same color, namely a shade of blue (with each successive variable using a darker shade); all variable labels are black; and the squeeze parameter is set

to 0.6.

squeeze The degree (between 0 and 1) to which the tree will be "squeezed". This controls

two Graphviz parameters: margin and nodesep.

showvarinnode Show the variable name in each node?

shownodelabels Show node labels? A single value (with no names) specifies the setting for all

variables. A logical vector of TRUE values for named variables is interpreted as TRUE for those variables and FALSE for all others. A logical vector of FALSE values for named variables is interpreted as FALSE for those variables and TRUE

for all others.

showvarnames Show the name of the variable next to each level of the tree?

showlevels (Deprecated) Same as showvarnames.

showpct Show percentage in each node? A single value (with no names) specifies the

setting for all variables. A logical vector of TRUE for named variables is interpreted as A logical vector of FALSE for named variables is interpreted as FALSE

for those variables and TRUE for all others.

showlpct Show percentages (for the marginal frequencies) in the legend?

showcount Show count in each node? A single value (with no names) specifies the setting

for all variables. A logical vector of TRUE for named variables is interpreted as A logical vector of FALSE for named variables is interpreted as FALSE for those

variables and TRUE for all others.

showlegend Show legend (including marginal frequencies) for each variable?

varnamepointsize

Font size (in points) to use when displaying variable names.

HTMLtext Is the text formatted in HTML?

digits Number of decimal digits to show in percentages.

cdigits Number of decimal digits to show in continuous values displayed via the sum-

mary parameter.

splitwidth The minimum number of characters before an automatic linebreak is inserted.

1splitwidth In legends, the minimum number of characters before an automatic linebreak is

inserted.

getscript Instead of displaying the variable tree, return the DOT script as a character

string?

nodesep Graphviz attribute: Node separation amount.
ranksep Graphviz attribute: Rank separation amount.

margin Graphviz attribute: node margin.

vp Use "valid percentages"? Valid percentages are computed by first excluding any

missing values, i.e. restricting attention to the set of "valid" observations. The denominator is thus the number of non-missing observations. When vp=TRUE, nodes for missing values show the number of missing values but do not show a percentage; all the other nodes how valid percentages. When vp=FALSE, all nodes (including nodes for missing values) show percentages of the total number

of observations.

horiz Should the tree be drawn horizontally? (i.e. parent node on the left, with the tree

growing to the right)

summary A character string used to specify summary statistics to display in the nodes.

The first word in the character string is the name of the variable to be summarized. The rest of the character string is the text that will be displayed, along with special codes specifying the information to display (see **Summary codes** below). A vector of character strings can also be specified, if more than one

variable is to be summarized.

runsummary A list of functions, with the same length as summary. Each function must take

a data frame as its sole argument, and return a logical value. Each string in summary will only be interpreted if the corresponding logical value is TRUE, the

corresponding string in summary will be evaluated.

retain Vector of names of additional variables in the data frame that need to be available

to execute the functions in runsummary.

width Width (in pixels) to be passed to DiagrammeR::grViz.

height Height (in pixels) to be passed to DiagrammeR::grViz.

graphattr Character string: Additional attributes for the Graphviz graph.

Character string: Additional attributes for Graphviz nodes.

edgeattr Character string: Additional attributes for Graphviz edges.

color A vector of color names for the *outline* of the nodes at each level.

colornodes Color the node outlines?

mincount Minimum count to include in a pattern tree or pattern table.

maxcount Maximum count to include in a pattern tree or pattern table. (Overrides min-

count.)

showempty Show nodes that do not contain any observations?

rounded Use rounded boxes for nodes?

nodefunc A node function (see **Node functions** below).

nodeargs A list containing named arguments for the node function specified by nodefunc.

choicechecklist

When REDCap checklists are specified using the stem: syntax, automatically

extract the names of choices and use them as variable names?

arrowhead DOT arrowhead style. Defaults to "normal". Other choices include "none",

"vee".

pxwidth Width in pixels of the PNG bitmap to be rendered when vtree is called from R

Markdown. If neither pxwidth nor pxheight is specified, pxwidth is automat-

ically set to 2000 pixels.

pxheight Height in pixels of the PNG bitmap to be rendered when vtree is called from R

Markdown.

imagewidth A character string specifying the width of the PNG image to be rendered when

vtree is called from R Markdown, e.g. "4in"

imageheight A character string specifying the height of the PNG image to be rendered when

vtree is called from R Markdown, e.g. "5in". If neither imageheight nor

imagewidth is specified, imageheight is set to 3 inches.

folder Optional path to a folder where the PNG file should stored when called during

knit

pngknit Generate a PNG file when called during knit?

as.if.knit Behave as if called while knitting?

maxNodes An error occurs if the number of nodes exceeds maxNodes, which defaults to

1000.

parent Parent node number (Internal use only.)

last Last node number (Internal use only.)

root Is this the root node of the tree? (Internal use only.)

Value

The value returned by vtree varies depending on both the parameter values specified and the context in which vtree is called.

First, there are two special cases where vtree does not show a variable tree:

- If ptable=TRUE, the return value is a data frame representing a pattern table.
- Otherwise, if getscript=TRUE, the return value is a character string, consisting of a DOT script that describes the variable tree.

If neither of the above cases applies, the return value is as follows. If knitting is *not* taking place (such as when vtree is used **interactively**):

• the return value is an object of class htmlwidget (see DiagrammeR). It will intelligently print itself into HTML in a variety of contexts including the R console, within R Markdown documents, and within Shiny output bindings.

If knitting is taking place:

- If pngknit=TRUE (the default), the return value is a character string of pandoc markdown code to embed a PNG file with fully-specified path. The character string will have class knit_asis so that knitr will treat it as is (the effect is the same as the chunk option results = 'asis') when it is written to the output. (See ?knitr::asis_output)
- If pngknit=FALSE, the return value is the same as when knitting is not taking place, i.e. an object of class htmlwidget.

R Markdown

As noted in the **Value** section above, vtree has special support for R Markdown.

By default, when knitting an R Markdown file, vtree generates PNG files and embeds them automatically in the output document. This feature is needed when knitting to a .docx file. When knitting to HTML, it is not necessary to generate PNG files because HTML browsers can directly display htmlwidgets.

To generate htmlwidgets instead of PNG files, specify pngknit=FALSE. (Note, however, that there are some advantages to embedding PNG files in an HTML file. For example, some browsers perform poorly when numerous htmlwidgets are included in an HTML file.)

When PNG files are generated, they are stored by default in a temporary folder. The folder can also be specified using the folder parameter. (Using the base R function options, a custom option vtree_folder is used to automatically keep track of this.) Successive PNG files generated by an R Markdown file are named vtree1.png, vtree2.png, etc. (A custom option vtree_count is used to automatically keep track of the number of PNG files.)

Summary codes

- %mean% mean
- %SD% standard deviation
- %sum% sum
- %min% minimum

- %max% maximum
- %pX% Xth percentile, e.g. p50 means the 50th percentile
- %median% median, i.e. p50
- %IQR% interquartile range, i.e. p25, p75
- %npct% number and percentage of TRUE values
- %list% list of the individual values
- %mv% the number of missing values
- %nonmv% the number of non-missing values
- %v% the name of the variable
- %noroot% flag: Do not show summary in the root node.
- %leafonly% flag: Only show summary in leaf nodes.
- %var=V% flag: Only show summary in nodes of variable V.
- %node=N% flag: Only show summary in nodes with value N.
- %trunc=n% flag: Truncate the summary to the first n characters.

Formatting codes

Formatting codes for the text argument. Also used by labelnode and labelvar.

- \n line break
- *...* italics
- **...** bold
- ^... ^ superscript (using 10 point font)
- ~... ~ subscript (using 10 point font)
- %%red . . . %% display text in red (or whichever color is specified)

Palettes

Sequential palettes from Color Brewer:

- 1. Reds
- 2. Blues
- 3. Greens
- 4. Oranges
- 5. Purples
- 6. YlGn
- 7. PuBu
- 8. PuRd
- 9. YlOrBr

Author(s)

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Examples

```
# Call to vtree
vtree(FakeData, "Sex Severity")
# R Markdown inline call to vtree
# `r vtree(FakeData, "Sex Severity")`
# A single-level hierarchy
vtree(FakeData, "Severity")
# A two-level hierarchy
vtree(FakeData, "Severity Sex")
# Rename some nodes
vtree(FakeData, "Severity Sex", labelnode=list(Sex=(c("Male"="M", "Female"="F"))))
# Rename a variable
vtree(FakeData, "Severity Sex", labelvar=c(Severity="How bad?"))
# Show legend. Put labels on the same line as counts and percentages
vtree(FakeData, "Severity Sex Viral", sameline=TRUE, showlegend=TRUE)
# Using the summary parameter to list ID numbers (truncated to 40 characters) in specified nodes
vtree(FakeData, "Severity Sex", summary="id \nid = %list% %var=Severity% %trunc=40%")
# Adding text to specified nodes of a tree ("targeted text")
vtree(FakeData, "Severity Sex", ttext=list(
  c(Severity="Severe", Sex="M", text="\nMales with Severe disease"),
  c(Severity="NA",text="\nUnknown severity")))
```

vtreeOutput

vtree widget

Description

Shiny bindings for vtree. It is actually a wrapper around grViz.

Usage

```
vtreeOutput(outputId, width = "100%", height = "100%")
```

Arguments

outputId output variable to read from

width, height must be a valid CSS unit in pixels or a number, which will be coerced to a string

and have "px" appended.

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See Also

```
renderVtree
```

```
Other Shiny Functions: init_js(), inlineCssSetup(), renderVtree(), use_svgzoom()
```

Examples

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