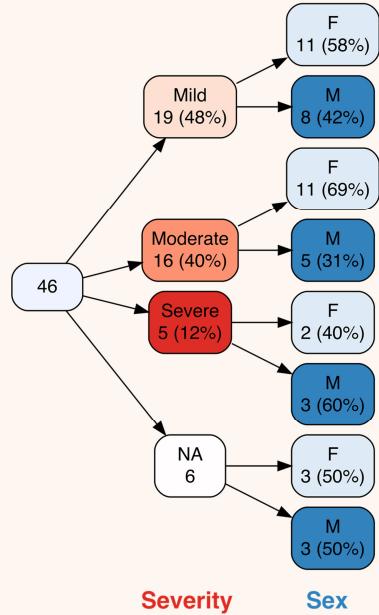


vtree cheatsheet

Basics

Draw a basic variable tree

`vtree(FakeData, "Severity Sex")`



Parameter setting	Effect
<code>vp=FALSE</code>	Use full denominator for %
<code>horiz=FALSE</code>	Vertical variable tree
<code>sameline=TRUE</code>	Node labels on same line as
<code>splitwidth=50</code>	Split text after 50 chars
<code>getscript=TRUE</code>	Get DOT script
<code>plain=TRUE</code>	Nodes in shades of blue
<code>digits=1</code>	1 decimal place in %
<code>cdigits=2</code>	2 dec. places in summary
<code>showpct=FALSE</code>	Do not show %
<code>showcount=FALSE</code>	Do not show counts

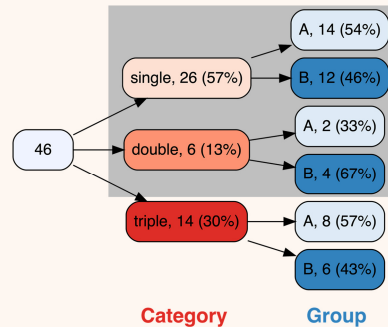
Labels

Parameter setting	Effect
<code>labelvar=c(Ind1="Indicator1")</code>	Relabel Ind1
<code>labelnode=list(MyVar=c(New="Old", New2="Old2"))</code>	Change node labels
<code>tlabelnode=list(c(Group="A", Sex="F", label="girl")</code>	Change the label of a specific node
<code>varnamepointsize=15</code>	Set font size (points) for variable names
<code>shownodelabels=FALSE</code>	Do not show node labels
<code>showvarnames=FALSE</code>	Do not show variable names
<code>showlegend=TRUE</code>	Show a legend
<code>title="All businesses"</code>	Show a title for the root node

Pruning

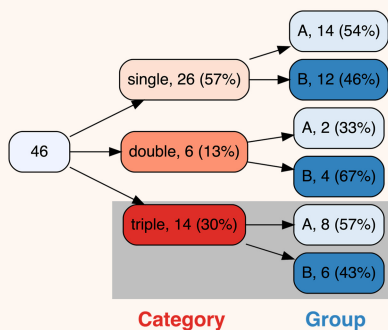
Prune single and double and their descendants

`vtree(FakeData, "Category Group", sameline=TRUE, prune=list(Category=c("single", "double")))`



Only keep single and double and their descendants

`vtree(FakeData, "Category Group", sameline=TRUE, keep=list(Category=c("single", "double")))`



Other ways to prune	Effect
<code>prunebelow</code>	Prune below nodes
<code>follow</code>	Only follow specified nodes
<code>prunesmaller</code>	Prune smaller nodes

Text

Add text to nodes

`vtree(FakeData, "Group Category", sameline=TRUE, text=list(Category=c(triple="\n*not verified*")))`

Code	Effect
<code>\n</code>	Line break
<code>*...*</code>	Italics
<code>**...**</code>	Bold
<code>^...^</code>	Superscript
<code>~...~</code>	Subscript
<code>%red ...%</code>	Make text red (or another color)

R Markdown

Inline	Output
<code>vtree(FakeData, "Group Category")`</code>	PNG
<code>vtree(FakeData, "Severity Sex", pngknit=FALSE)`</code>	htmlwidget
Chunk	Output
<code>```{r, results="asis"}``` vtree(FakeData, "Sex Severity", asis=TRUE) ```</code>	PNG
<code>```{r}``` vtree(FakeData, "Severity Sex", pngknit=FALSE) ```</code>	htmlwidget

Parameter setting	Effect
<code>imagewidth="3in"</code>	Image 3 inches wide
<code>imageheight="4in"</code>	Image 4 inches tall
<code>pxwidth=800</code>	Image 800 pixels wide
<code>pxheight=2000</code>	Image 200 pixels high

Variable specification

Prefix	Effect
<code>is.na:</code>	<code>is.na(variable)</code>
<code>stem:</code>	all REDCap variables starting with stem
<code>rc:</code>	flag variable as a REDCap checkbox variable
<code>tri:</code>	trichotomize in each node of variable

Suffix	Effect
<code>this*</code>	variable names starting with <code>this</code>
<code>this#</code>	variable names ending with numeric digits

Dichotomize	Effect
<code>variable=x</code>	x vs. all other values
<code>variable<x</code>	below x vs. all other values
<code>variable>x</code>	above x vs. all other values

Additional functions

Function	Purpose
<code>VennTable</code>	Format pattern table
<code>crosstabToCases</code>	Convert a crosstab array to cases
<code>grVizToPNG</code>	Generate a PNG file
<code>build.data.frame</code>	Generate data frame from specified counts

For more information, type: `vignette("vtree")`

summary parameter

Syntax: `summary="varspec format"`

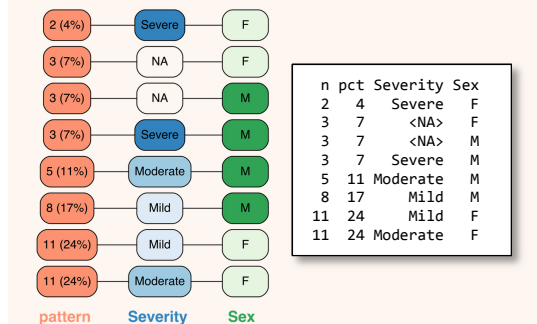
`varspec` variable specification `format` text and codes

Variable specification	Effect
<code>variable=x</code>	x vs. all other values
<code>variable>x</code>	below x vs. all other values
<code>variable<x</code>	above x vs. all other values

Code	Produces
<code>%mean%</code>	mean
<code>%SD%</code>	standard deviation
<code>%sum%</code>	sum
<code>%min%</code>	minimum
<code>%max%</code>	maximum
<code>%pX%</code>	Xth percentile
<code>%median%</code>	median, i.e. p50
<code>%IQR%</code>	IQR, i.e. p25, p75
<code>%npct%</code>	frequency and percentage
<code>%pct%</code>	just percentage
<code>%list%</code>	comma-separated list of values
<code>%listlines%</code>	individual values on separate lines
<code>%mv%</code>	the number of missing values
<code>%nonmv%</code>	the number of non-missing values

Code	Restricts summary information to:
<code>%nroot%</code>	all nodes except the root
<code>%leafonly%</code>	leaf nodes
<code>%var=v%</code>	nodes of variable v
<code>%node=n%</code>	nodes named n

Pattern trees and tables



Parameter setting	Effect
<code>pattern=TRUE</code>	Generate a pattern tree
<code>Venn=TRUE</code>	Use Venn settings for indicator variables
<code>ptable=TRUE</code>	Generate pattern table
<code>check.is.na=TRUE</code>	Generate pattern table for missing values

Format a pattern table for markdown
<code>VennTable(vtree(FakeData, "Ind1Ind2"), ptable=T, markdown=T)</code>