

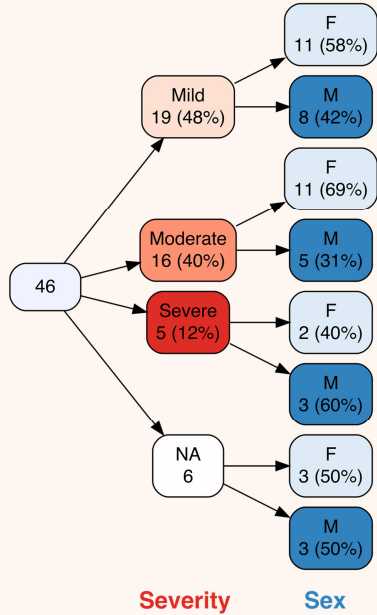
# vtree v4.0.0 cheatsheet

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

## Basics

### Draw a basic variable tree

```
vtree(FakeData, "Severity Sex")
```

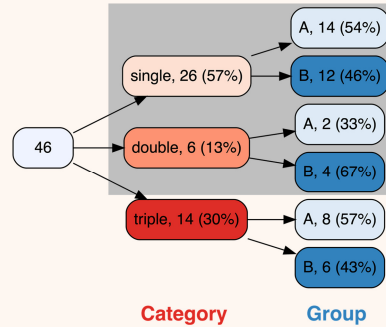


Parameter setting	Effect
vp=FALSE	Use full denominator for %
horiz=FALSE	Vertical variable tree
sameline=TRUE	Show label, n (%)
splitwidth=50	Split text after 50 chars
getscript=TRUE	Get DOT script
plain=TRUE	Nodes in shades of blue
digits=1	1 decimal place in %
cdigits=2	2 dec. places in summary
showpct=FALSE	Do not show %
showcount=FALSE	Do not show counts

## Pruning

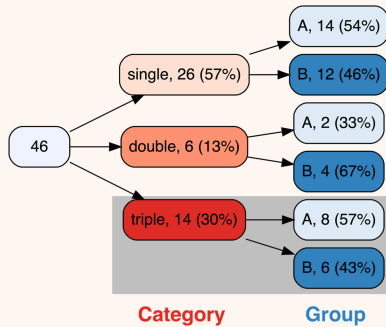
### Prune single and double and their descendants

```
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
prunebelow	Prune below nodes
follow	Only follow specified nodes
prunesmaller	Prune smaller nodes

## Labels

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

## Text

### Add text to nodes

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

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

## R Markdown

Code	Output
vtree(FakeData, "Group Category")	PNG
vtree(FakeData, "Severity Sex", pngknit=FALSE)	htmlwidget

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

## Variable specification

Prefix	Effect
is.na:	is.na(variable)
stem:	all REDCap variables starting with stem
rc:	identify a REDCap checkbox variable
tri:	trichotomize in each node of variable

Suffix	Effect
this*	variable names starting with this
this#	variable names ending with numeric digits

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

## Additional functions

Function	Purpose
svtree	Launch a Shiny vtree app
VennTable	Format pattern table
crosstabToCases	Convert a crosstab array to cases
grVizToPNG	Generate a PNG file
build.data.frame	Generate data frame from specified counts

## summary parameter

**Syntax:** summary="variable-specification format-text-&-codes"

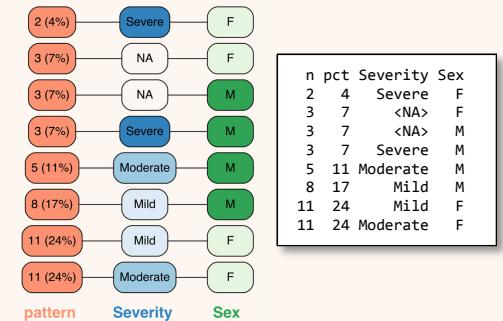
**Example:** summary="Age \nmean age = %mean%"

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

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

Code	Restricts summary information to:
%noroot%	all nodes except the root
%leafonly%	leaf nodes
%var=v%	nodes of variable v
%node=n%	nodes named n

## Pattern trees and tables



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

**Format a pattern table for markdown**  
VennTable(vtree(FakeData, "Ind1 Ind2", ptable=T), markdown=T)