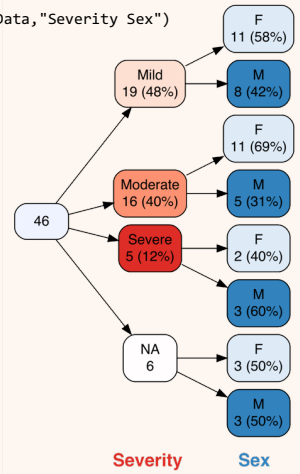
vtree cheatsheet

Basics

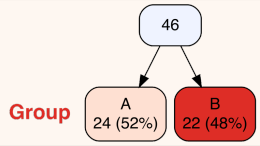
Draw a basic variable tree

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



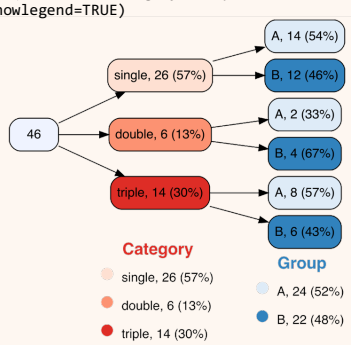
Draw the tree vertically

```
vtree(FakeData,"Group",horiz=FALSE)
```



Display a legend

```
vtree(FakeData,"Category Group",sameline=TRUE,
  showlegend=TRUE)
```



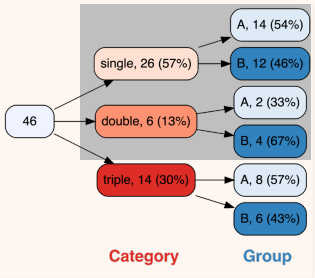
Variable specification

Modifier	Effect
prefix `is.na:`	is.na(variable)
prefix `stem:`	all REDCap variables with stem
prefix `tri:`	trichotomize in each node
`variable=`*x*	dichotomize at *x*
`variable<`*x*	dichotomize below x
`variable>`*x*	dichotomize above *x*

Pruning

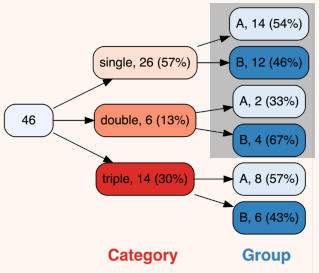
Prune single and double and their descendants

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



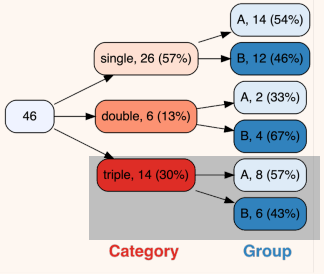
Prune nodes below single and double

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



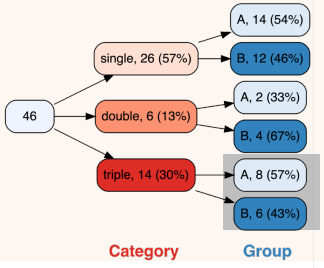
Only keep single and double and their descendants

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



Only include descendants of single and double

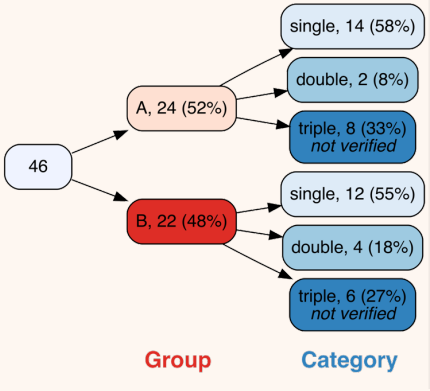
```
vtree(FakeData,"Category Group",sameline=TRUE,
  follow=list(Category=c("single","double")))
```



Text

Add text to nodes

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



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

Text in a specific node ("targeted text")

```
ttext=list(Group="A",Severity="Moderate",text="hi")
```

Labeling

Parameter

Change variable labels
`labelvar=c(`
`Severity="New label for Severity")`

Change node labels for a variable
`labelnode=list(MyVar=`
`c(New="Old",New2="Old2"))`

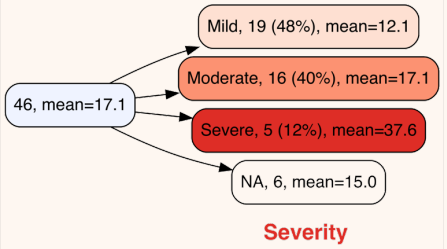
Change a specific node label
`tlabelnode=list(`
`c(Group="A",Sex="F",label="girl"))`

Font size (points) for variable names `varnamepointsize=15`
Specify an optional label for the root node `title="All patients"`
Show node labels? `shownodelabels=TRUE`
Show variable names? `showvarnames=TRUE`

Summary information

Add summary statistics to nodes

```
vtree(FakeData,"Severity",sameline=TRUE,
  summary="Score , mean=%mean%")
```



Code	Result
`%mean%`	mean
`%SD%`	standard deviation
`%min%`	minimum
`%max%`	maximum
`%pX%`	Xth percentile (e.g. p50 means the 50th percentile)
`%median%`	median, i.e. p50
`%IQR%`	IQR, i.e. p25, p75
`%npct%`	frequency and percentage
`%pct%`	just percentage
`%list%`	list of individual values, separated by commas
`%listlines%`	list of individual values, each on a separate line
`%mv%`	the number of missing values

Code	Summary information restricted to:
`%noroot%`	all nodes *except* the root
`%leafonly%`	leaf nodes
`%var=v%`	nodes of variable *v*
`%node=n%`	nodes named *n*

Checking for missing values

Show missing value patterns; dark color = missing, light = not missing

```
vtree(FakeData,"Severity Age Pre Post",check.is.na=TRUE)
```