Tutorial 10 - Miscellaneous plots

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Load R packages.

```
library(dendroextras)
library(vcd)
```

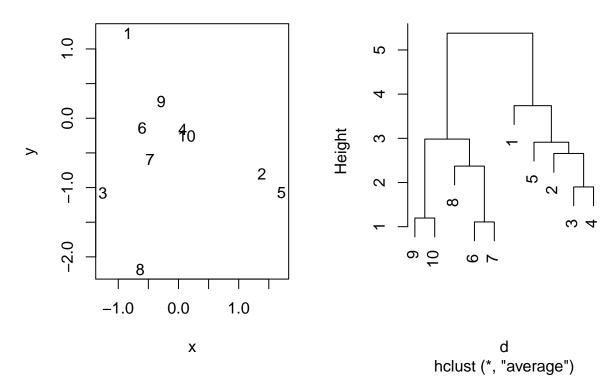
Loading required package: grid

Dendrograms

Simple dendrogram with synthetic data.

```
set.seed(5)
x = rnorm(10)
y = rnorm(10)
z = seq(1, 10, by=1)
mtx = data.frame(cbind(x, y, z))
d = dist(mtx, method = "euclidean")
clust = hclust(d, "ave")
par(mfrow=c(1, 2))
plot(mtx$x, mtx$y, type="n", xlab="x", ylab="y")
text(mtx$x, mtx$y, labels=z)
plot(clust, main="Dendrogram")
```

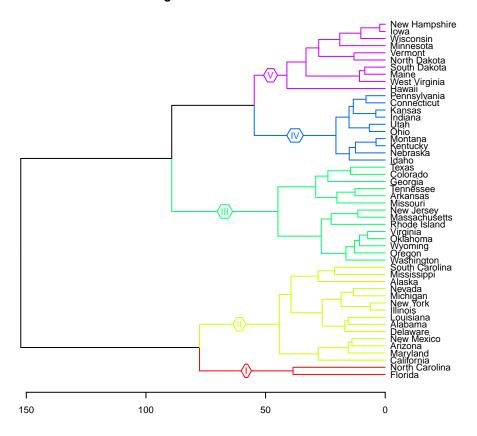
Dendrogram



More complex dendrogram.

```
data(USArrests)
par(mar=c(2, 10, 2, 10), cex=0.6)
clst1=colour_clusters(hclust(dist(USArrests), "ave"), 5, groupLabels=as.roman)
plot(clst1, main="Dendogram with 5 clusters", horiz=TRUE)
```

Dendogram with 5 clusters



Mosaic plots

```
mosaic(~Admit + Gender + Dept, data=UCBAdmissions)
```

