Hierarchical Clustering

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Preparing Data

Read data from a specified location

```
beerdata <- read.csv("/Users/Rahul/Documents/Datasets/Hclust_Beer data.csv",
header = TRUE, sep = ",",na.strings = c(""," ", "NA"))</pre>
```

Summary of the data on which model is built and Standardizing the variables

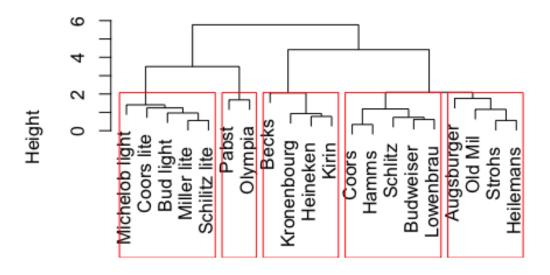
Using euclidean as distance measure for hirerchial clustering

```
d <- dist(c, method = "euclidean") # distance matrix
hclust.result <- hclust(d, method="complete")
hclust.result$labels <- beerdata[,2] #add beer names as Labels</pre>
```

Plot using dendrogram plot to visulaize the clusters

```
plot(hclust.result)
# cut tree into 5 clusters
groups <- cutree(hclust.result, k=5)
# draw dendrogram with red borders around the 5 clusters
rect.hclust(hclust.result, k=5, border="red")</pre>
```

Cluster Dendrogram



d hclust (*, "complete")