pm

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7/6/2021

```r
compare <- function(x1, x2) {
      x3 <- x1 + x2
      ints <- sum(x3 > 1)
    uno <- sum(x3 > 0)
    return (ints / uno)
  }

  getJaccard <- function(data) {
      l = length(data[1,])
      jmatrix <- matrix(nrow=l,ncol=l)
      for (i in 1:l) {
          for (j in i:l) {
              s <- compare(data[i], data[,j])
              jmatrix[i,j] <- s
              jmatrix[j,i] <- s
          }
          }
      return (jmatrix)
  }

  cardsort <- function(filename, blocks) {
      filedata <- read.table(filename, header=T, sep=",")
      data <- getJaccard(filedata)
      colnames(data) <- colnames(filedata)
      hc <- hclust(dist(t(data)), method="ward.D")
      hc$labels <- colnames(data)
      plot(hc, main = Sys.time())
      rect.hclust(hc, k=blocks, border="red")
  }

cardsort('/Users/Richard/OneDrive/Documents/CardSorting3.csv', 7)
```
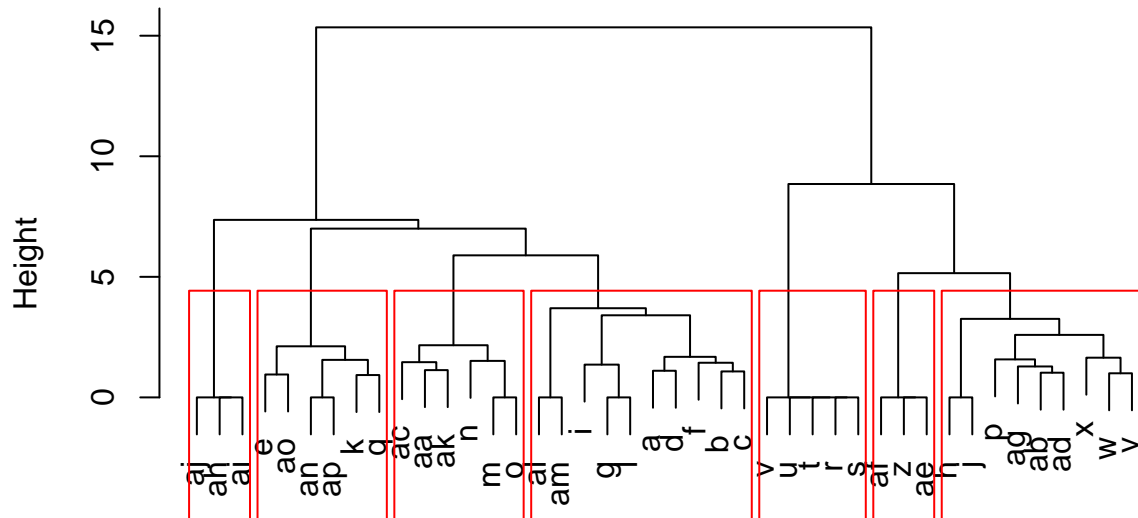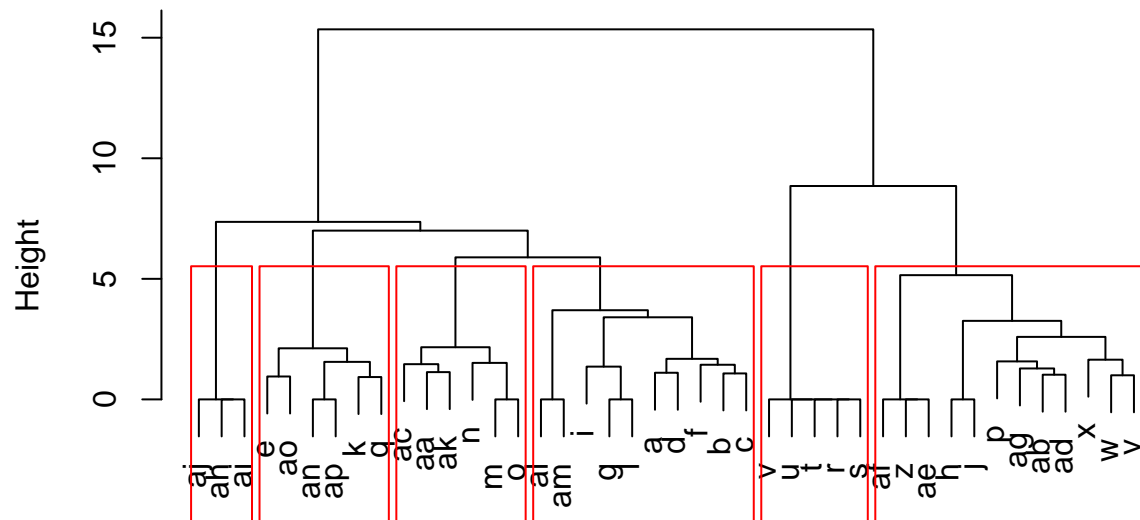
1

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dist(t(data))
hclust (*, "ward.D")

```
cardsort('/Users/Richard/OneDrive/Documents/CardSorting3.csv', 6)
```
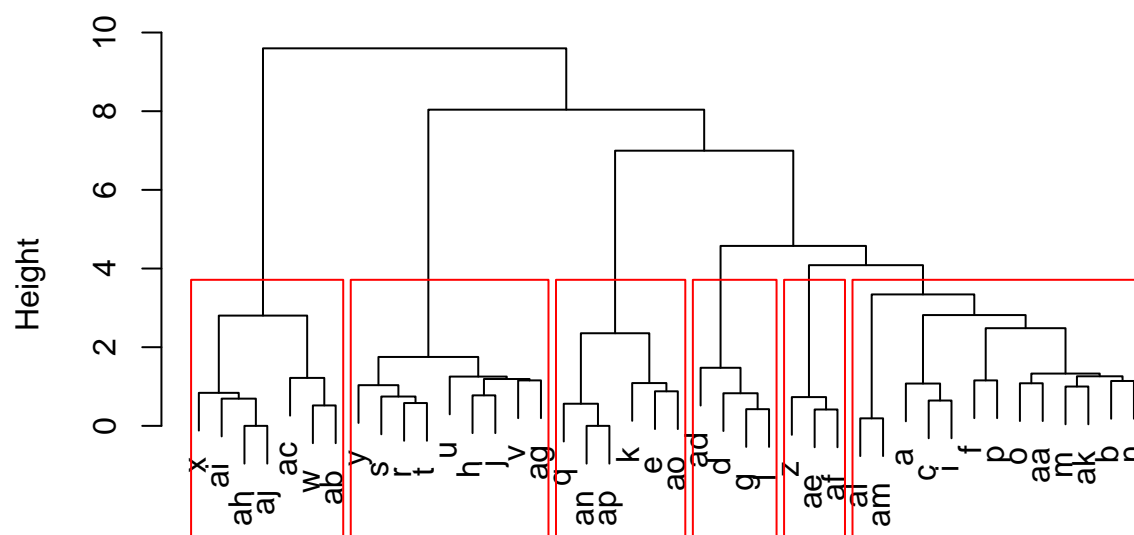
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dist(t(data))
hclust (*, "ward.D")

```
cardsort('/Users/Richard/OneDrive/Documents/productcardsort.csv', 6)
```
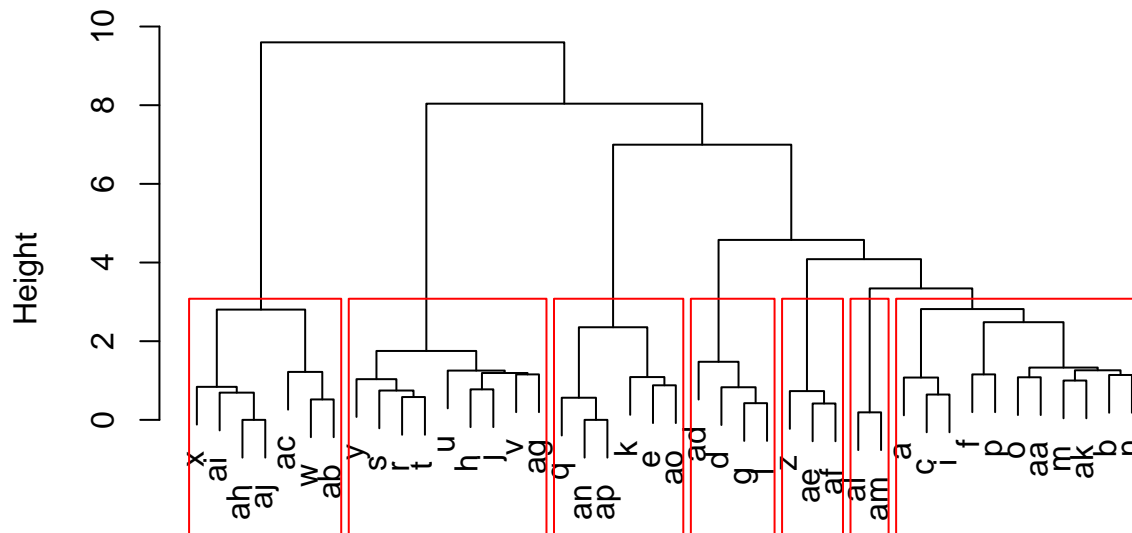
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dist(t(data))
hclust (*, "ward.D")

```
cardsort('/Users/Richard/OneDrive/Documents/productcardsort.csv', 7)
```
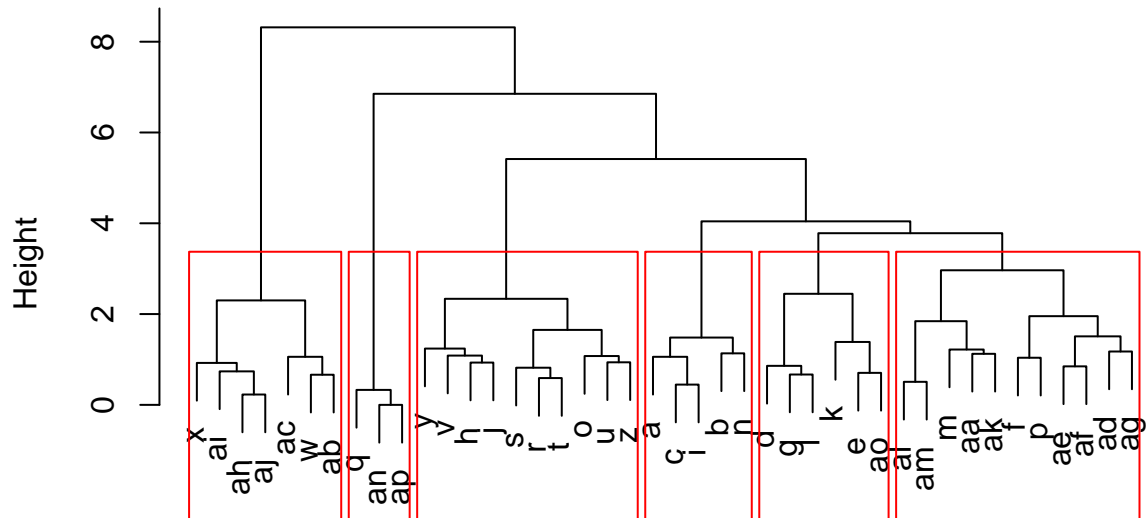
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dist(t(data))
hclust (*, "ward.D")

```
cardsort('/Users/Richard/OneDrive/Documents/CardSortproductCS.csv', 6)
```
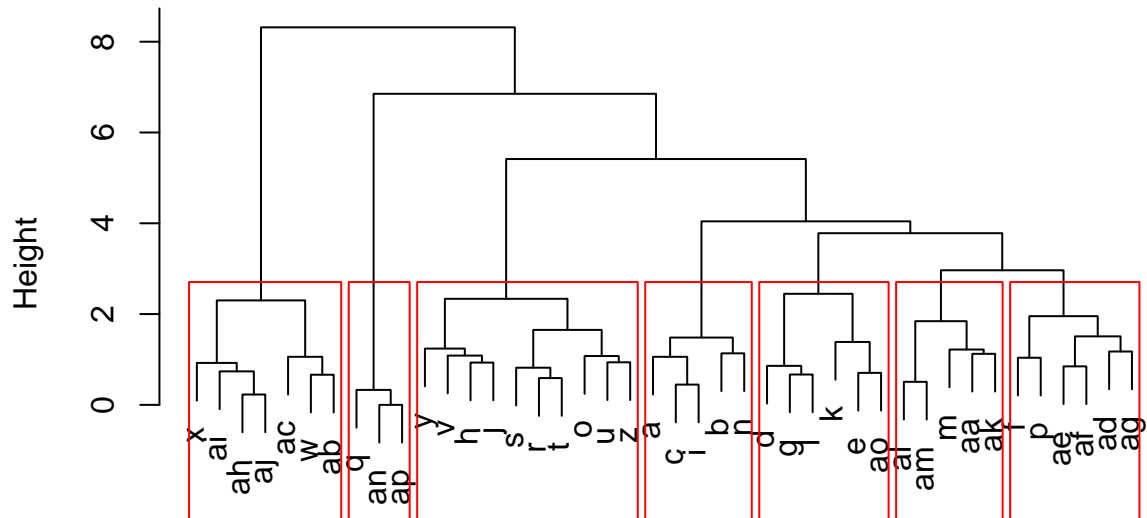
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dist(t(data))
hclust (*, "ward.D")

```
cardsort('/Users/Richard/OneDrive/Documents/CardSortproductCS.csv', 7)
```
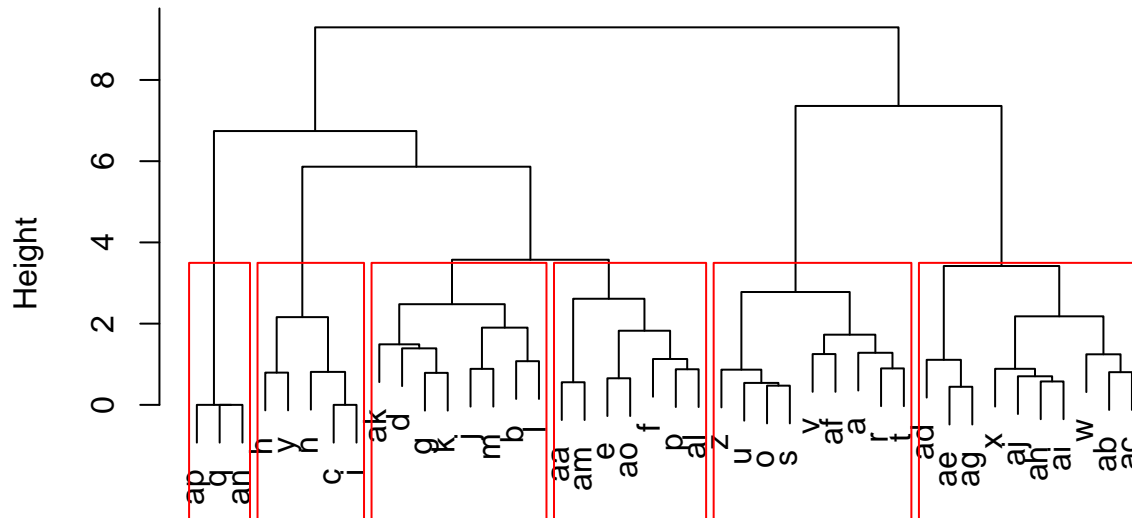
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dist(t(data))
hclust (*, "ward.D")

```
cardsort('/Users/Richard/OneDrive/Documents/cardsortCS.csv', 6)
```

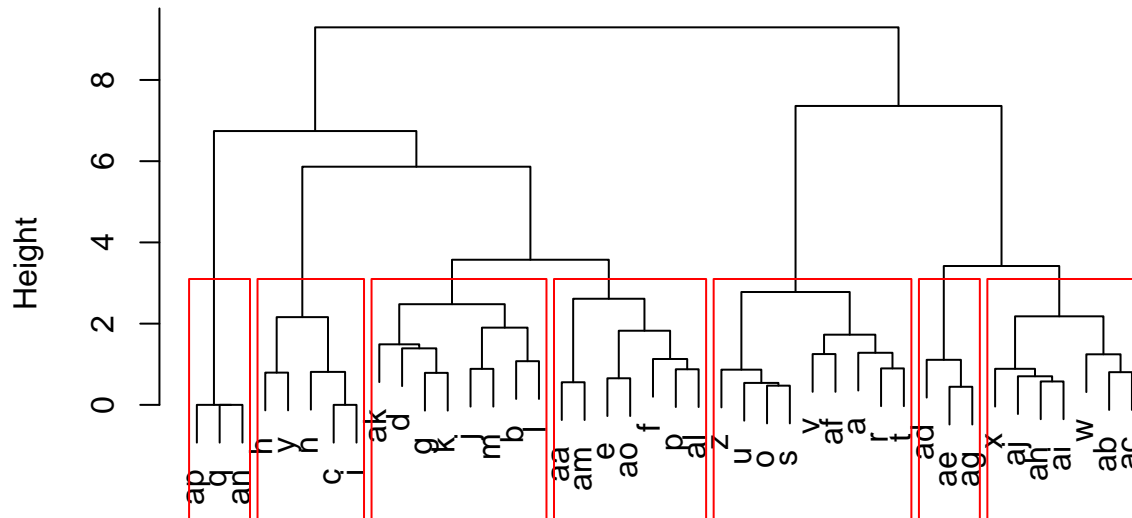## 2022−03−09 20:38:18

dist(t(data))
hclust (*, "ward.D")

```
cardsort('/Users/Richard/OneDrive/Documents/cardsortCS.csv', 7)
```

2022−03−09 20:38:18

dist(t(data))
hclust (*, "ward.D")