SampleAnswer01

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2020/1/27

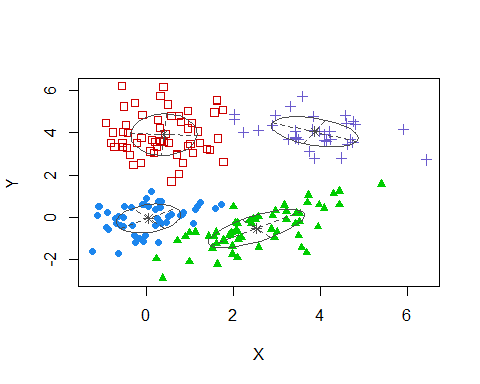
## Task 1: Cluster identification [2 points]

Open the file ClusteredPoints.dbf to identify bivariate normal distributed clusters is this dataset with the function Mclust( ).

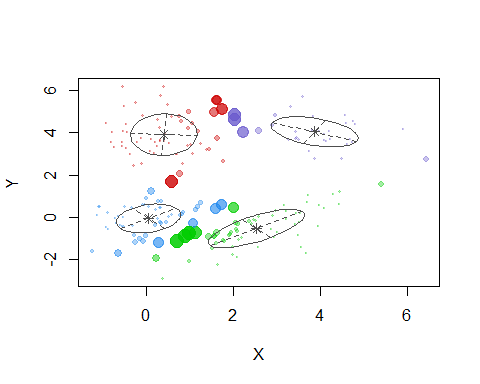
1.1 Estimate the optimal number of clusters in this dataset [0.25 points]

1.2 Generate a plot of the estimated classification [0.25 points]

plot(p.Mclust, what = "classification")

 1.3 Generate a plot of the estimated uncertainty of assigning a point to a particular cluster and interpret the plot. [0.25 points]

plot(p.Mclust, what = "uncertainty")



## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

summary(cars)

## speed dist   
## Min. : 4.0 Min. : 2.00   
## 1st Qu.:12.0 1st Qu.: 26.00   
## Median :15.0 Median : 36.00   
## Mean :15.4 Mean : 42.98   
## 3rd Qu.:19.0 3rd Qu.: 56.00   
## Max. :25.0 Max. :120.00

## Including Plots

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.