2.3 Lab Introduction to R

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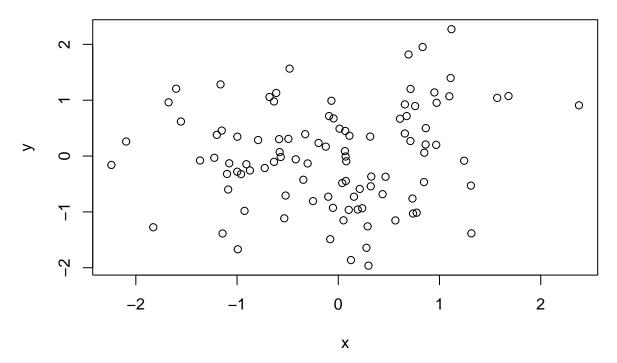
2.3.1 Basic Commands

I skipped this part because I've learnt this in STATS 306

2.3.2 Graphics

plot() is the primary way to plot data in R

```
x = rnorm(100)
y = rnorm(100)
plot(x,y)
```



```
pdf("Figure.pdf")
plot(x, y, col="green")
```

2.3.3 Indexing Data

I skipped this part

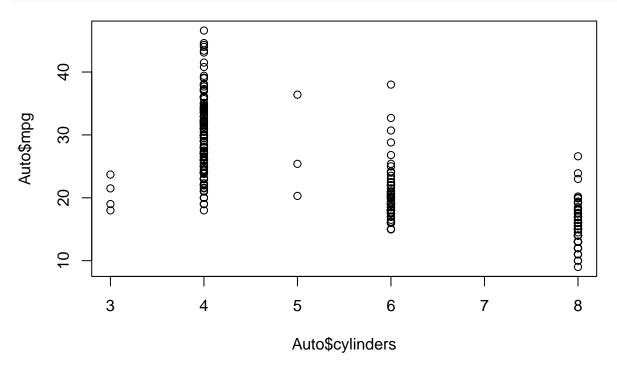
2.3.4 Loading Data

- read.table() to import data set
- write.table() to export data set
- fix() to view the data in a spreadsheet format
- read.csv() to import csv format data
- dim() to see the dimension of the data set
- na.omit() to remove NAs

2.3.5 Additional Graphics and Numerical Summaries

plot() function can be used to plot the variables, however, to refer to a variable, we must tell the system the data set using \$ or attach()

```
library(MASS)
library(ISLR)
plot(Auto$cylinders, Auto$mpg)
```



attach(Auto)

There are also other functions that we can use

- pairs() to draw scatterplot matrix
- hist() to draw histograms
- summary() to produce summary of each variable in the data set