

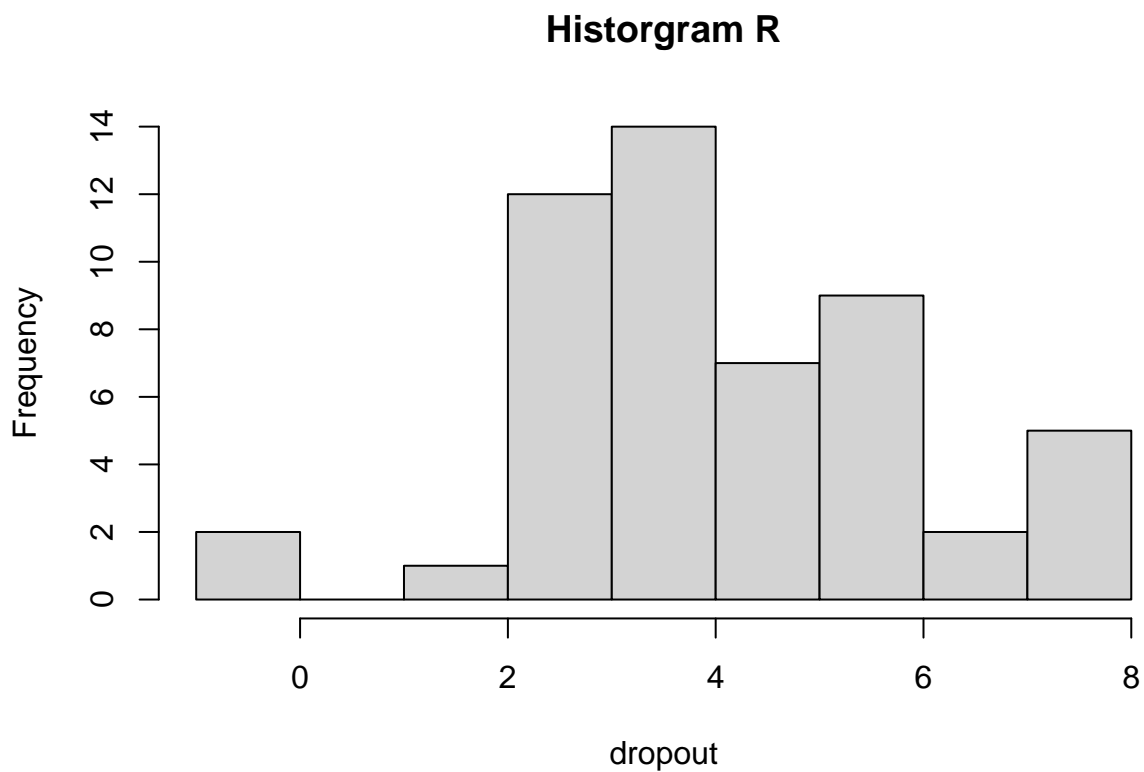
Week 11 & 12

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```
setwd("/Users/feliperodriguez/OneDrive - Bellevue University/DSC 640 Data Prep and Vis/Week 11&12")
data <- read.csv("education.csv", )
```

```
# Histogram
dropout <- data$dropout_rate
hist(dropout,
      main = "Histogram R")
```



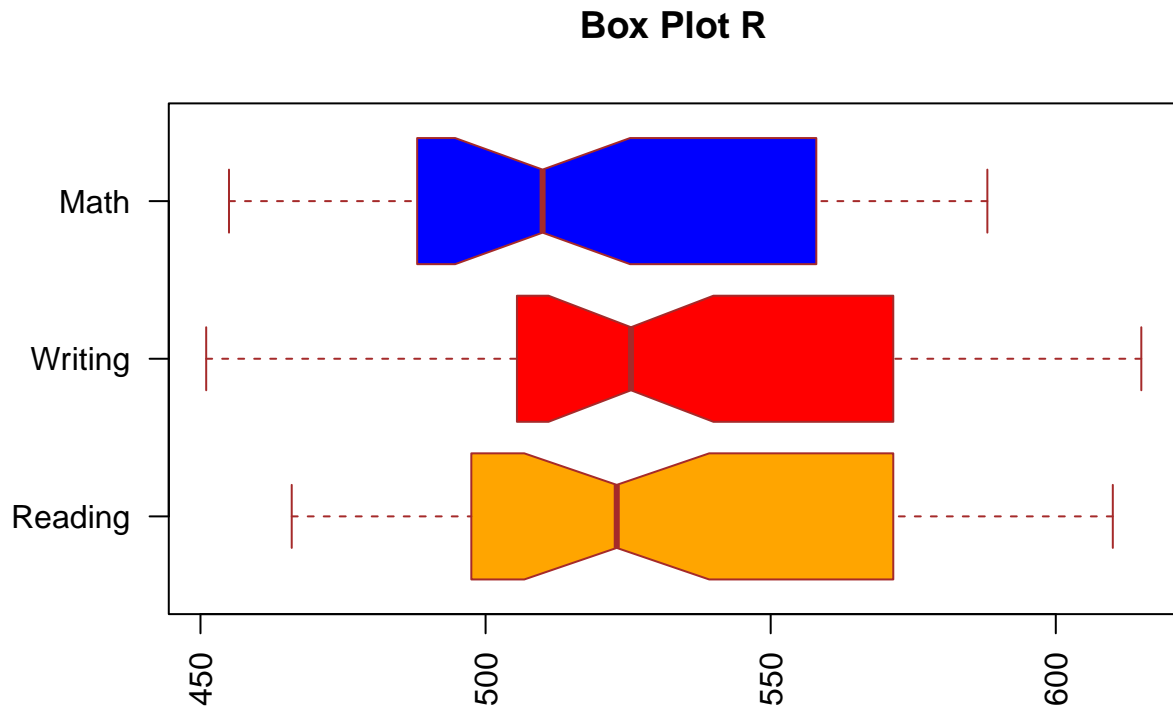
```
# Box Plot R
reading <- data$reading
math <- data$math
writing <- data$writing

boxplot(reading, math, writing,
        main = "Box Plot R",
        names = c("Reading", "Writing", "Math"),
```

```

las = 2,
col = c("orange", "red", "blue"),
border = "brown",
horizontal = TRUE,
notch = TRUE
)

```



```

# Bullet Plot
library(plotly)

```

```
## Loading required package: ggplot2
```

```
##
```

```
## Attaching package: 'plotly'
```

```
## The following object is masked from 'package:ggplot2':
```

```
##
```

```
## last_plot
```

```
## The following object is masked from 'package:stats':
```

```
##
```

```
## filter
```

```
## The following object is masked from 'package:graphics':
```

```
##
```

```
## layout
```

```
library(ggplot2)

p <- data %>%
  ggplot(aes(x = dropout_rate, y = state)) +
  geom_col(aes(x = pupil_staff_ratio), fill = "grey") +
  geom_col(width = 0.5, fill = "black") +
  ggtitle("Bullet Chart R")

ggplotly(p)
```

```
library(fmsb)
```

```
## Warning: package 'fmsb' was built under R version 4.2.3
```

```
data <- read.csv("education.csv", header=TRUE, row.names="state")

# Assign Min and Max to all columns
max_min <- data.frame(
  reading = c(620, 0), math = c(620, 0), writing = c(620, 0),
  percent_graduates_sat = c(100, 0), pupil_staff_ratio = c(15, 0), dropout_rate = c(10, 0)
)
rownames(max_min) <- c("Max", "Min")

# Add max_min to data
df <- rbind(max_min, data)
# Create dataframe for variable
Nebraska <- df[c("Max", "Min", "Nebraska"), ]
# Create radar chart
radarchart(Nebraska, title = "Radar Chart R")
```

Radar Chart R

