UNIVERSIDADE FEDERAL DO RIO GRANDE DO NORTE
IMD – INSTITUTO METRÓPOLE DIGITAL
Disciplina: IMD0033 – PROBABILIDADE – 24N12
Professora: Ismenia

ROTEIRO 8

Aula 08 – Resumir a informação para Storytelling

Base: HairEyeColor

Neccessary libaries

```
library(ggplot2)
library(dplyr)

install.packages("DT")


library(tidyr)
library(scales)
library(DT)

data<-tbl_df(HairEyeColor)
```

Getting to know the data

```
dim(data)

str(data)

summary(data)

data
```

Visulizing the data

Most males and females have blue and brown eyes

```
qplot(data = data, Eye, n, geom="boxplot", color=Sex)
```

Most males and females have brown hair.

```
qplot(data = data, Hair, n, geom="boxplot", color=Sex)
```

Percentage of male and Female brown hair

```
B_M<-data %>% select(Hair, Sex, n) %>%filter(Sex=="Male" & Hair=="Brown") %>%
summarise(Male_Brown=sum(n))

B_F<-data %>% select(Hair, Sex, n) %>%filter(Sex=="Female" & Hair=="Brown") %>%
summarise(Female_Brown=sum(n))

TOT<-data %>% summarise(TotH=sum(n))

male_brown <-B_M/TOT*100

female_brown<- B_F/TOT*100

> male_brown

> female_brown
```

Density plot of different hair colors

```
qplot(data=data, Hair, geom="density", fill=Hair, alpha=0.6)



plot(HairEyeColor, col=c(4,2))
```