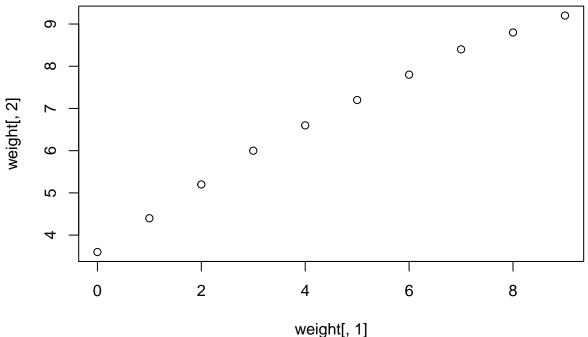
Class5 R graphics

Barry

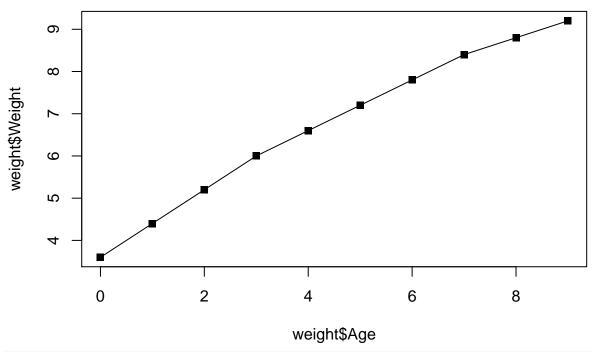
Fri Jan 25 13:30:02 2019

Class 05 Graphics and plots with R This is some narative text that I can style \mathbf{bold} and italic and add links to webpages

```
# Section 2A: line plot
weight <- read.table("bimm143_05_rstats/weight_chart.txt", header=TRUE)
plot(weight[,1], weight[,2])</pre>
```



plot(weight\$Age, weight\$Weight, pch=15, type="o")



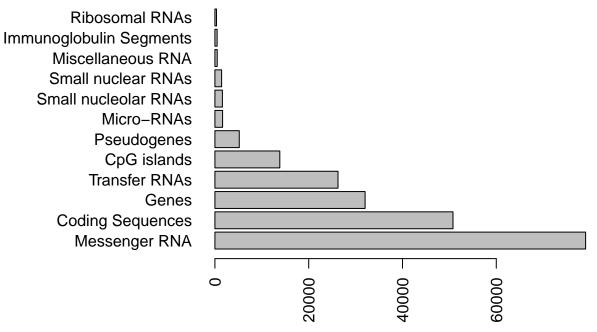
```
# 2B Barplot

feat <- read.table("bimm143_05_rstats/feature_counts.txt", header=TRUE, sep="\t")

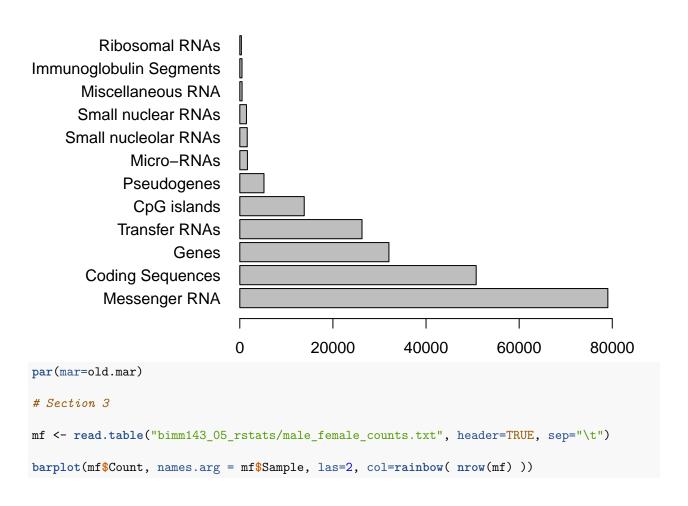
barplot(feat$Count, names.arg = feat$Feature, las=2, horiz=TRUE)

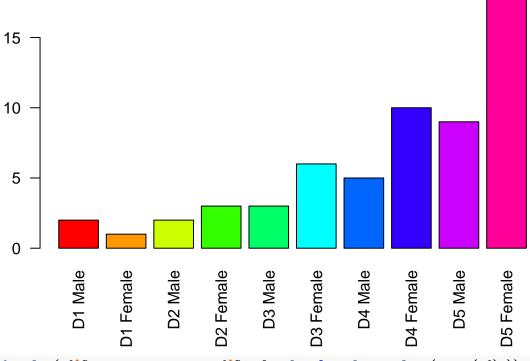
old.mar <- par()$mar

par(mar=c(5, 11, 4, 2))
barplot(feat$Count, names.arg = feat$Feature, las=2, horiz=TRUE)</pre>
```

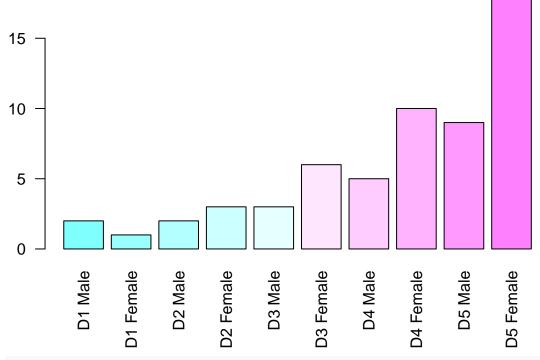


Number of features in the mouse GRCm38 genome



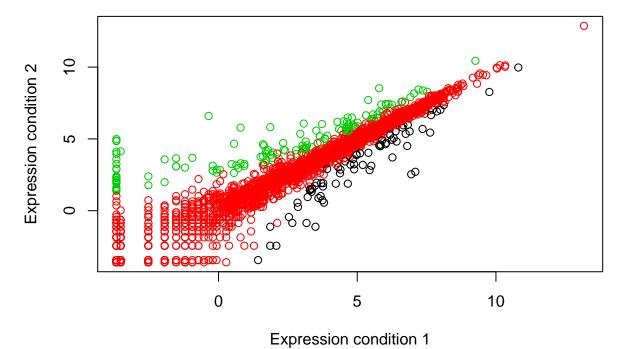


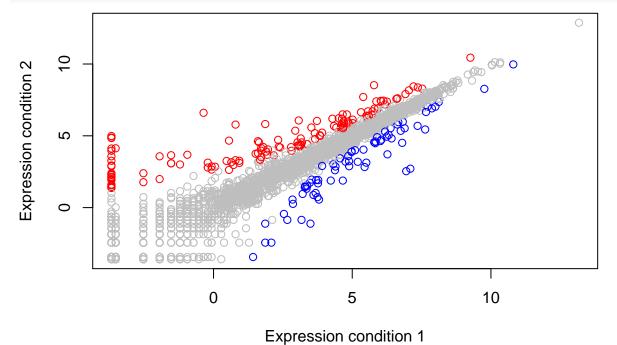
barplot(mf\$Count, names.arg = mf\$Sample, las=2, col=cm.colors(nrow(mf)))



barplot(mf\$Count, names.arg = mf\$Sample, las=2, col=topo.colors(nrow(mf)))

```
15
10
 5
 0
            D1 Male
                    D1 Female
                                     D2 Female
                                              D3 Male
                                                               D4 Male
                                                                        D4 Female
                                                                                D5 Male
                                                                                         D5 Female
                             D<sub>2</sub> Male
                                                      D3 Female
# Section 3B RNA-Seq data
exp <- read.delim("bimm143_05_rstats/up_down_expression.txt")</pre>
# how many genes
nrow(exp)
## [1] 5196
table(exp$State)
##
           down unchanging
##
                                         up
##
             72
                         4997
                                        127
plot(exp$Condition1, exp$Condition2, col=exp$State,
      xlab="Expression condition 1", ylab="Expression condition 2")
```





```
palette(old.pal)

#View(exp)
```