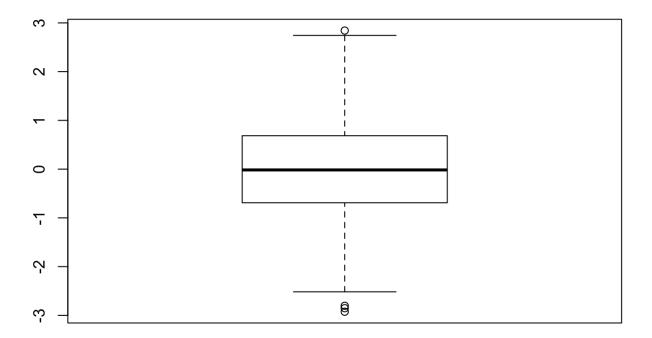
class05.R

Sharon

Tue Jan 22 12:04:49 2019

```
# Class 05 R graphics intro

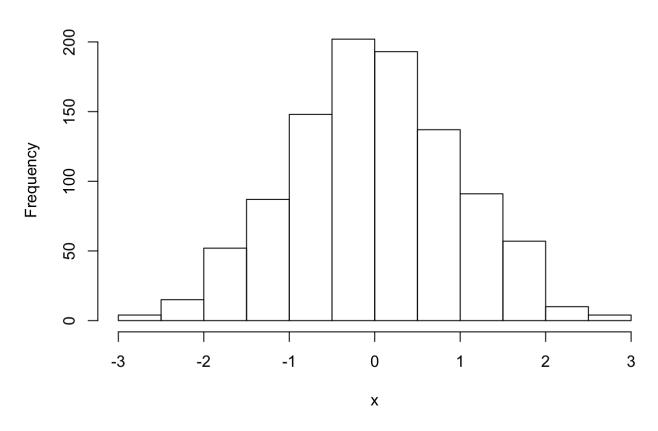
# My first boxplot
x <- rnorm(1000, 0)
boxplot(x)</pre>
```



```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## -2.925670 -0.689463 -0.016656 0.002956 0.683231 2.843187
```

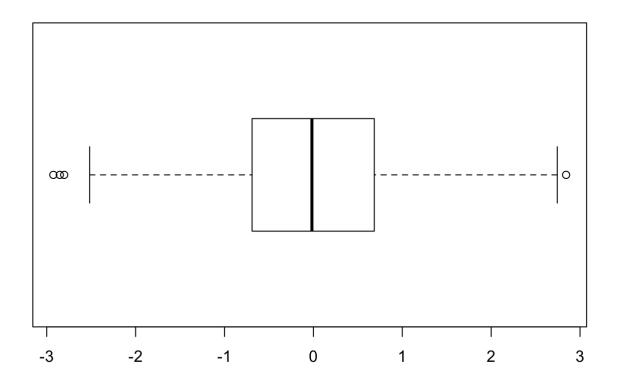
```
hist(x)
```



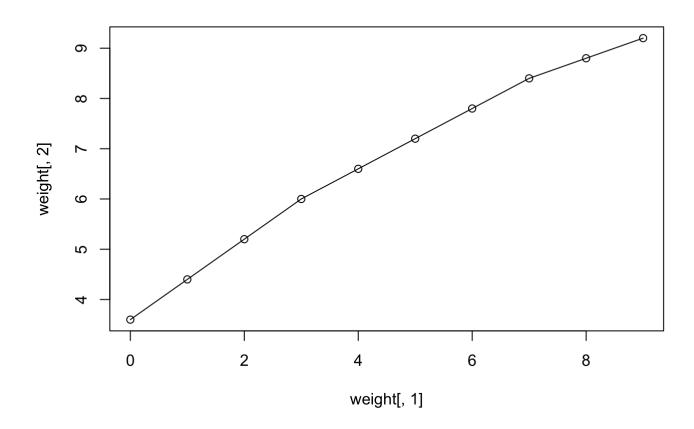


?boxplot

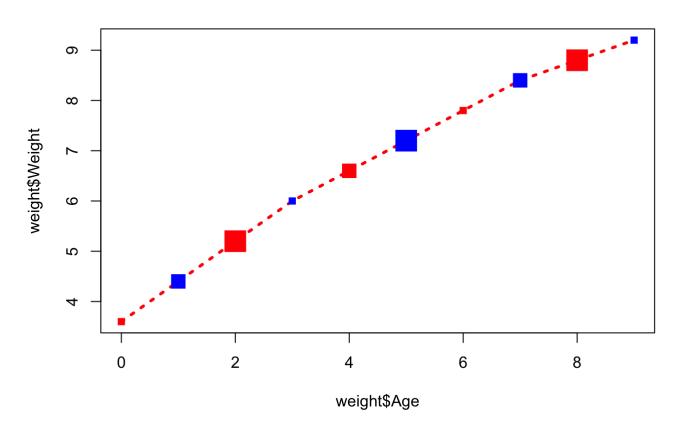
boxplot(x, horizontal = TRUE)



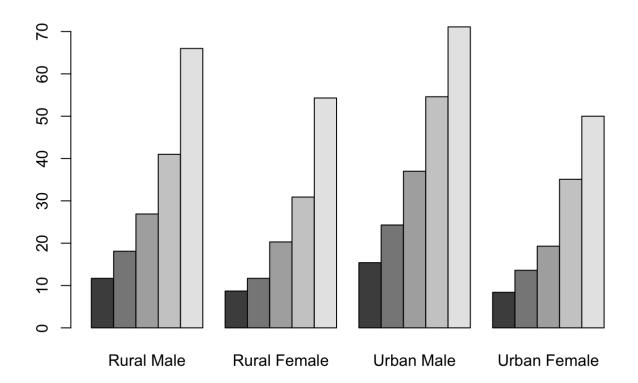
```
# Hands on session 2
weight <- read.table("bimm143_05_rstats/weight_chart.txt", header = TRUE)
plot(weight[,1], weight[,2], type = "o")</pre>
```



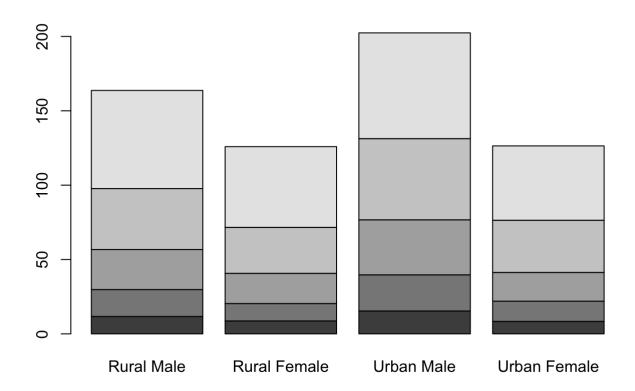
some main title



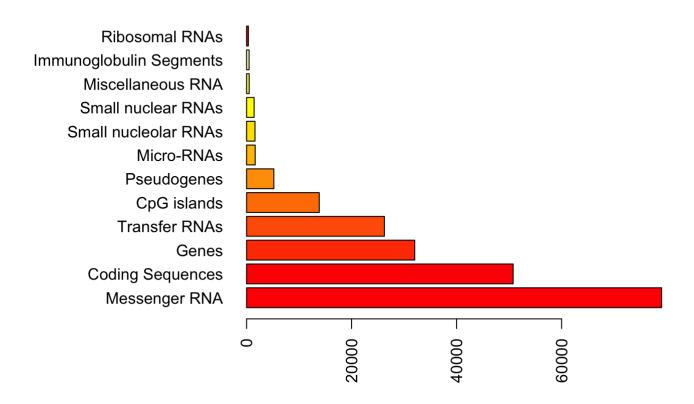
Try a barplot
barplot(VADeaths, beside = TRUE)

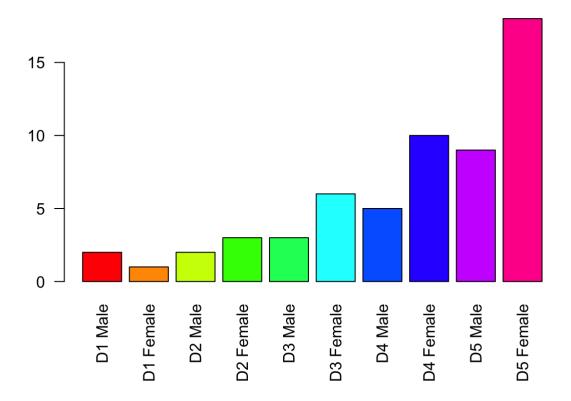


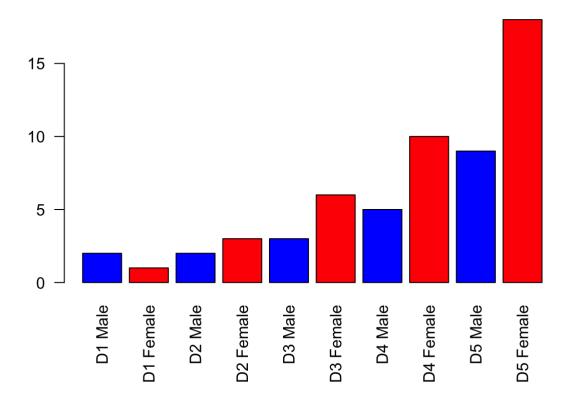
barplot(VADeaths, beside = FALSE)

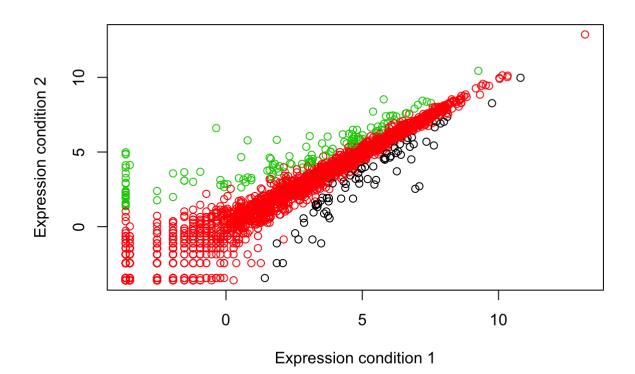


```
## Input our feature count data
mouse <- read.table("bimm143_05_rstats/feature_counts.txt", header=TRUE, sep="\t")
par(mar=c(5.1, 11.1, 4.1, 2.1))
barplot(mouse$Count, horiz = TRUE, names.arg = mouse$Feature, las=2, col=heat.colors(11))</pre>
```









```
#expression data
e <- read.table("bimm143_05_rstats/up_down_expression.txt", header = TRUE)
# how many genes?
nrow(e)</pre>
```

```
## [1] 5196
```

how many up, down, all around?
e\$State

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##	[475]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
##	[481]	unchanging	unchanging	unchanging	down	unchanging	unchanging
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##	[493]	unchanging	unchanging	unchanging	up	unchanging	unchanging
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##	[973]	unchanging	unchanging	unchanging	down	unchanging	unchanging
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##	[1069]	unchanging	unchanging	down	unchanging	unchanging	unchanging
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##	[1105]	unchanging	unchanging	unchanging	down	unchanging	unchanging
##	[1111]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
##	[1117]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
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## ##	[1129]	unchanging	unchanging		unchanging	unchanging	up
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## ## ## ##	[1129] [1135] [1141]	unchanging unchanging unchanging	unchanging unchanging unchanging	unchanging unchanging	unchanging unchanging unchanging	unchanging unchanging	up unchanging
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## ###################################	[1129] [1135] [1141] [1147] [1153] [1159] [1165] [1171] [1177] [1183] [1189] [1195] [1201] [1207] [1213] [1213]	unchanging unchanging unchanging unchanging down unchanging	unchanging	unchanging	unchanging unchanging unchanging down down unchanging up unchanging unchanging up unchanging unchanging unchanging unchanging unchanging unchanging unchanging unchanging unchanging	unchanging unchanging up unchanging	up unchanging unchanging down up unchanging
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## [3	1297]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
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## [3	1375]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
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-	1447]	unchanging	unchanging	unchanging	${\tt unchanging}$	${\tt unchanging}$	unchanging
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## ## ## ##	[2197] [2203] [2209] [2215] [2221]	unchanging unchanging unchanging unchanging unchanging	unchanging unchanging unchanging unchanging unchanging	unchanging unchanging unchanging unchanging unchanging	unchanging unchanging unchanging unchanging unchanging	unchanging unchanging unchanging unchanging unchanging	unchanging unchanging unchanging unchanging unchanging
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## ## ## ## ##	[2197] [2203] [2209] [2215] [2221] [2227] [22233]	unchanging unchanging unchanging unchanging unchanging unchanging unchanging unchanging	unchanging unchanging unchanging unchanging unchanging unchanging unchanging	unchanging unchanging unchanging unchanging unchanging unchanging unchanging	unchanging unchanging unchanging unchanging unchanging unchanging unchanging unchanging	unchanging unchanging unchanging unchanging unchanging unchanging unchanging unchanging	unchanging unchanging unchanging unchanging unchanging unchanging unchanging
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## ## ## ## ## ##	[2197] [2203] [2209] [2215] [2221] [2227] [2233] [2239] [2245]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
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##	[4561]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
##	[4567]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
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##	[4579]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
##	[4585]	unchanging	unchanging	unchanging	unchanging	down	unchanging
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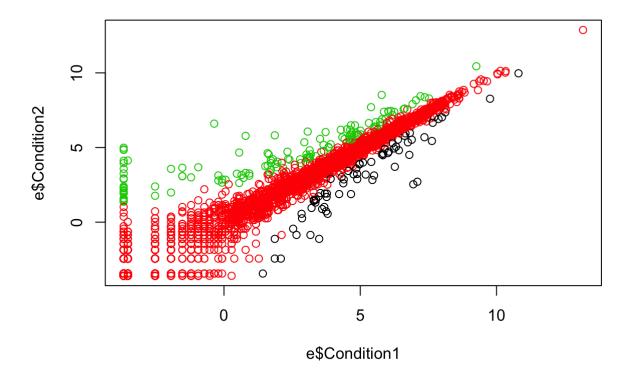
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	##	[5005]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
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	##	[5017]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
	##	[5023]	unchanging	unchanging	unchanging	unchanging	up	unchanging
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	##	[5101]	unchanging	unchanging	unchanging	unchanging	unchanging	unchanging
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[5185] unchanging unchanging unchanging unchanging unchanging unchanging
[5191] unchanging unchanging unchanging unchanging unchanging
Levels: down unchanging up

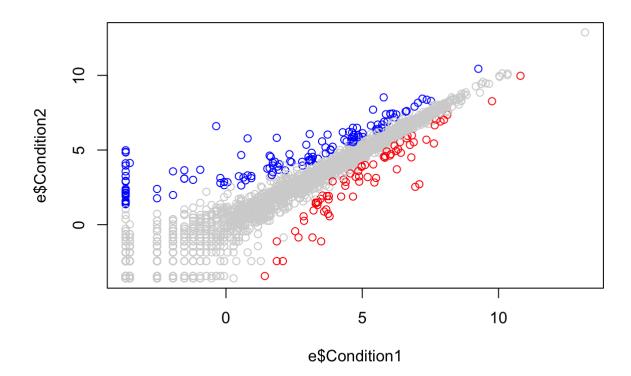
```
table(e$State)
```

```
##
## down unchanging up
## 72 4997 127
```

plot(e\$Condition1, e\$Condition2, col=e\$State)



```
#play
palette(c("red", "lightgray", "blue"))
plot(e$Condition1, e$Condition2, col=e$State)
```



#3C