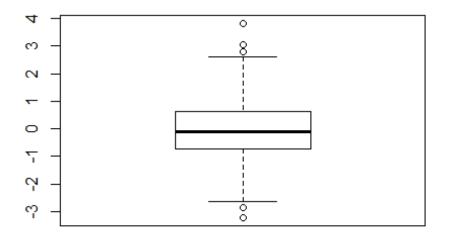
Class05_R.R

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Thu Jan 24 09:32:32 2019

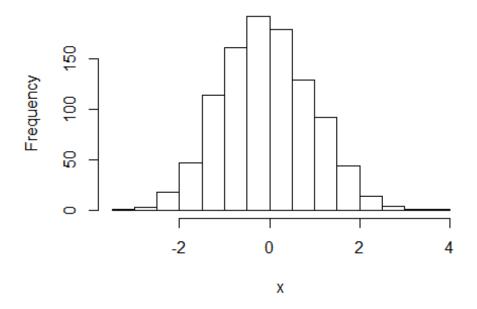
```
# Class 05 R grapgic intro

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



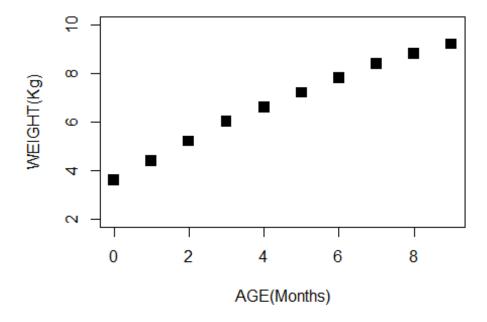
```
summary(x)
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## -3.21338 -0.73939 -0.08479 -0.05734 0.63727 3.82046
hist(x)
```

Histogram of x



weight <- read.table("bimm143_05_rstats/weight_chart.txt", header=TRUE)
plot(weight, pch=15, cex=1.5, lwd=2, ylim=c(2,10), xlab="AGE(Months)",
 ylab="WEIGHT(Kg)", main="Baby Weight with Age")</pre>

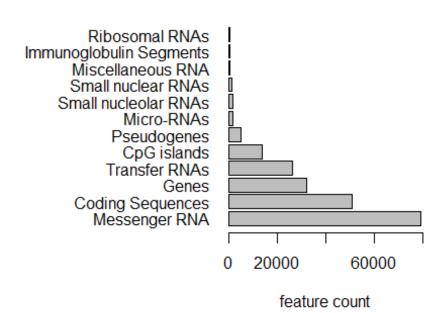
Baby Weight with Age

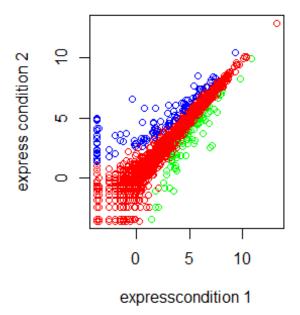


```
feature <- read.table("bimm143_05_rstats/feature_counts.txt", header = TRUE,
sep = "\t")

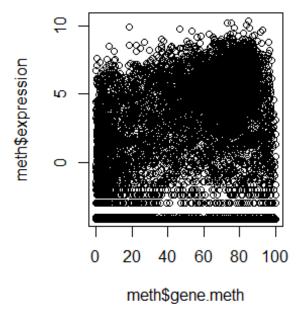
par(mar=c(5,12,4,3))
barplot(feature$Count, horiz=TRUE, xlab="feature count", names.arg =
feature$Feature,
    main= "Feature Count", las=1, xlim = c(0,80000))</pre>
```

Feature Count



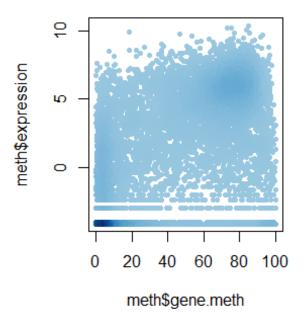


Lets plot expression vs gene regulation
meth <- read.delim("bimm143_05_rstats/expression_methylation.txt")
plot(meth\$gene.meth, meth\$expression)</pre>



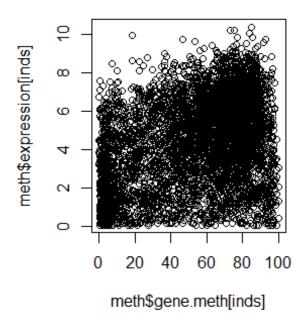
```
dcols <- densCols(meth$gene.meth, meth$expression)

# Plot changing the plot character ('pch') to a solid circle
plot(meth$gene.meth, meth$expression, col = dcols, pch = 20)</pre>
```



```
# Find the indices of genes with above 0 expression
inds <- meth$expression > 0

# Plot just these genes
plot(meth$gene.meth[inds], meth$expression[inds])
```



```
## Make a desnisty color vector for these genes and plot
dcols <- densCols(meth$gene.meth[inds], meth$expression[inds])
plot(meth$gene.meth[inds], meth$expression[inds], col = dcols, pch = 20)</pre>
```

