My first graph in R (Markdown)

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com. A document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```r
print('Hello World')
```

```
## [1] "Hello World"
```
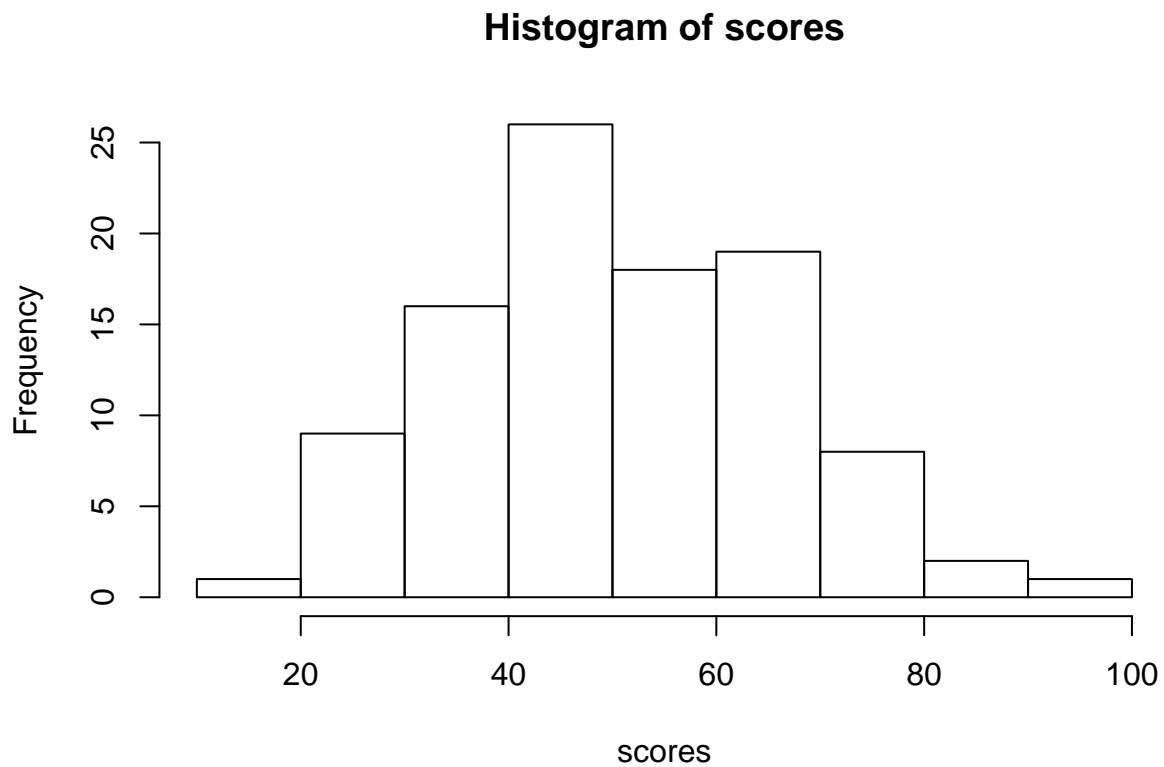
Some data

R knows a lot of distributions, now let us generate some random midterm scores!

```r
scores <- rnorm(100, 50, 15)
```

Including Plots

An R Markdown document is very handy if it comes to standard document formats, lets say you want to publish midterm results (very similar structure but different data). First we draw a histogram of the scores:
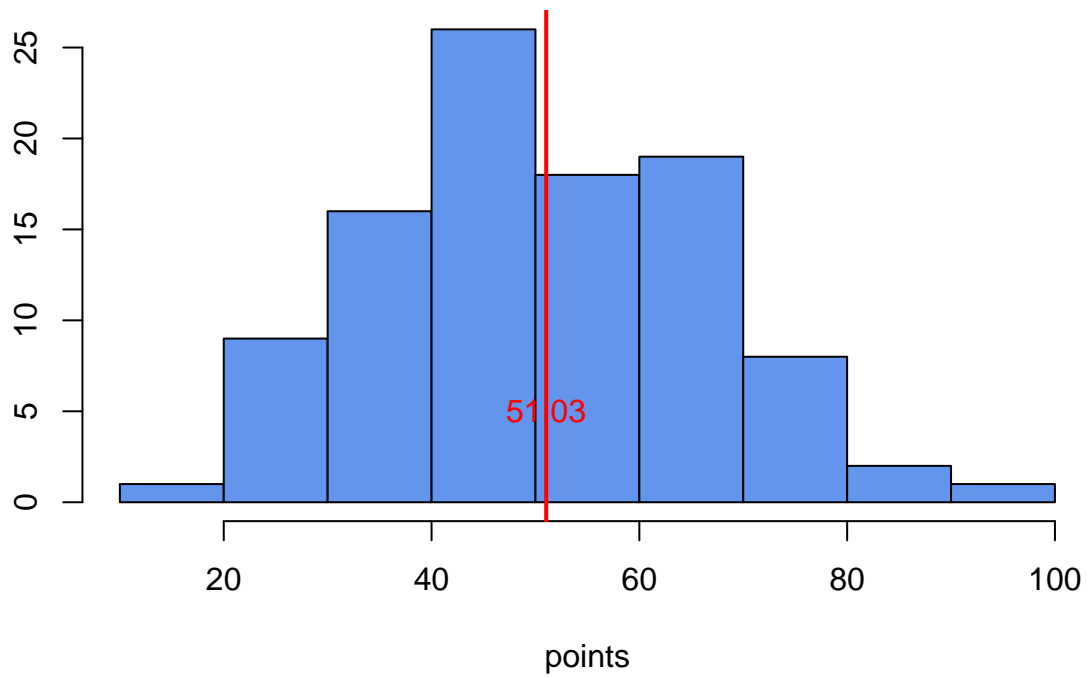
```r
hist(scores)
```

Histogram of scores

Well, the code is fairly simple, but we want to be stylish.

```r
hist(scores,
     main = "First midterm results",
     ylab = "",
     xlab = "points",
     col = "cornflowerblue")
abline(v = mean(scores),
       col = "red",
       lwd = 2)
text(x = mean(scores), y = 5,
     labels = round(mean(scores), 2),
     col = "red")
```

First midterm results

Somewhat nicer! The aim however was only to introduce you to graphs and Rmd files. You can also hide the code just like here to present top three scores:

```
82.43 83.09 90.75
```

Congratulations, now you know how to create a histogram and a document you can use multiple times!