R Notebook Test

Contents

Installation instructions

Installation instructions can be found here https://bookdown.org/yihui/rmarkdown/installation.html.

What you need to do is to run the following line in `Console` (RStudio, check lower left corner):

```
install.packages('rmarkdown')
```

Any package can be instaled in this manner.

You may have to run, to install `tinytex`:

```
tinytex::install_tinytex(force=TRUE)
```

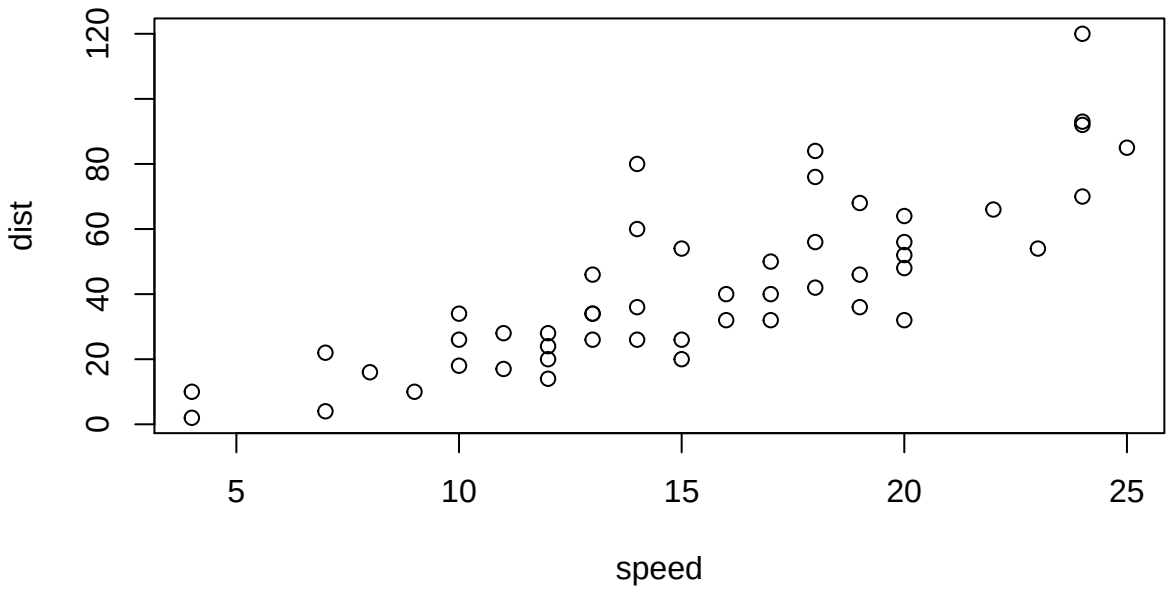
Basics

This is an R Markdown Notebook. When you execute code within the notebook, the results appear beneath the code.

Try executing this chunk by clicking the *Run* button within the chunk or by placing your cursor inside it and pressing *Cmd+Shift+Enter*.

NB: `{r}` tells the system that this code must be executed; `r` simply highlights the code, but does not execute it.

```
plot(cars)
```



Add a new chunk by clicking the *Insert Chunk* button on the toolbar or by pressing *Cmd+Option+I*.

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the *Preview* button or press *Cmd+Shift+K* to preview the HTML file).

The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike *Knit*, *Preview* does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.

Let's try something simple but fun

Let's run the following line to install RXKCD.[1]

```
install.packages("RXKCD", repos="http://R-Forge.R-project.org",type="source")
```

You may see R complaining that certain packages are not available. Can you figure out what to do?

Now let's load the libraries:

```
library(RXKCD)
```

```
## Loading required package: RJSONIO
```

```
## Loading required package: png
```

```
## Loading required package: jpeg
```

[1] From here: https://blog.revolutionanalytics.com/2011/07/a-bit-of-fun-with-r.html

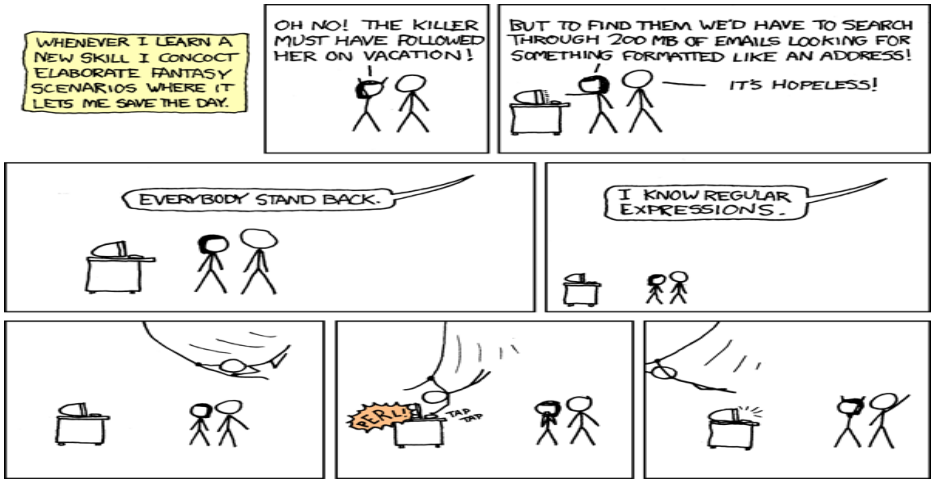
```
library(RJSONIO)
library(jpeg)
```

Now, we can use RXKCD:

```
searchXKCD("regular expressions")
```

```
##   num                title
## 1 208 Regular Expressions
```

```
getXKCD(208)
```




```
## image.url = https://imgs.xkcd.com/comics/regular_expressions.png
## title =  Regular Expressions
## num = 208
## year = 2007
## transcript = Narrator: Whenever I learn a new skill I concoct elaborate fantasy scenarios where it l
## Woman: Oh no! The killer must have followed her on vacation!
## [[Woman points to computer]]
## Woman: But to find them we'd need to search through 200MB of emails looking for something formatted
## Man: It's hopeless!
## Offpanel voice: Everybody stand back.
## Offpanel voice: I know regular expressions.
## [[A man swings in on a rope, toward the computer]]
```

```
## <<tap tap>>
## <<PERL!>>
## [[The man swings away, and the other characters cheer]]
## {{rollover text: Wait, forgot to escape a space. Wheeeeee[taptaptap]eeeeee.}}
## alt = Wait, forgot to escape a space.  Wheeeeee[taptaptap]eeeeee.
```