**Software Carpentry Sunday October 4**

**R**

To get directory on R from github:

1. copy the URL (NOT FROM THE TOP BAR!) from HTTPS clone URL on the right of the page

2. on R, New Project

3. Version Control

4. Git

5. Copy URL

6. Create Project

check I have the right directory (from git and not my computer): look at directory on top of the down right case on R. If it’s from my computer, the whole directory will be way longer that “Home > software-carpentry-october-2015”.

Markdown files = documents that can do everything! For example, on our file we see output: html. So we can write a whole web page from R. You can change the doc type: **Knit HTML**, **Knit PDF**, **Knit Word**. You can execute everything that is in the grey boxes and the ouputs and plots will be integrated into the doc! LIKE LaTeX!

```{r, echo=TRUE} *#the R commands will appear in the doc. If I just want the graphs, I’ll put echo=F*

plot(cars)

```

Open data file on R:

$ data1 **<- read.csv()** *#if csv file*

$ data1 **<- read.table()** *#if tsv file*

Add arguments in read.table() and look for directory by typing “~/” and click Tab:

$ data1 **<- read.table(file = “~/”)**

Error: spaces in the names of country. Cmd-F, Search *space* Replace \_. When we save the file, it’s only saved on R and neither on the computer (since the directory is github) and not on github either because we haven’t pushed it. So for the directory in “file=” we want where we are in R.

$ getwd()

[1] "/Users/elsa/software-carpentry-october-2015"

I can just copy that in my read.table() and then tab to keep going until the file combined\_gapMinder.tsv.