

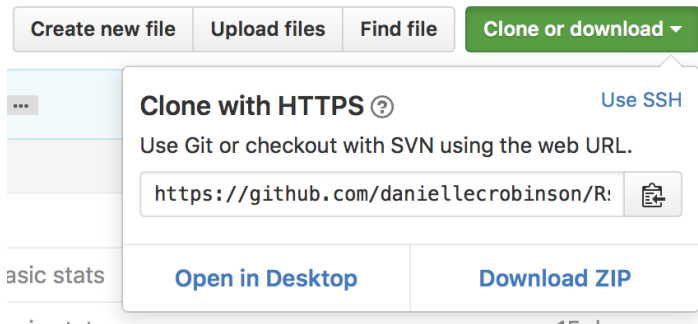
# R Stats 4 nOObs - PMCB Retreat 2016

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# Before we begin

- ▶ Download R Studio
  - ▶ `https://www.rstudio.com/products/rstudio/download3/`
- ▶ Go to our Github page:
  - ▶ `https://github.com/daniellecrobinson/Rstats_4_n00bs`



- ▶ Click on “Clone or Download”
- ▶ Click on “Download Zip”

# Why should you use R??

- ▶ Collaborative
- ▶ Free!
  - ▶ unlike Prism, for example
- ▶ Can be opened/used on any computer
- ▶ You have a ton of control over what you want to do
  - ▶ unlike Excel, for example

# Basics

- ▶ use # to comment
- ▶ "<-" assigns values to a variable

```
x<-1  
x
```

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

- ▶ functions ()

```
print(x)
```

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

- ▶ help() and ?
- ▶ name variables can't start w/ a number

# Resources

- ▶ CRAN: <https://cran.r-project.org>
- ▶ <http://stackoverflow.com> - like google for coding questions
- ▶ R Markdown cheat sheets ([rmarkdown.rstudio.com](http://rmarkdown.rstudio.com))
- ▶ Ted Laderas' R bootcamp:  
<https://github.com/laderast/r-bootcamp>



# Let's go!

From the Github downloaded files, open:

- ▶ “example\_lengths\_for\_R.csv”
- ▶ “BasicStatsCode.pdf”
- ▶ “ANOVA.pdf”

We'll start with “BasicStatsCode.pdf”

*PLEASE ASK US IF YOU ARE CONFUSED! :-)*

~Use your **yellow** sticky note for “confused” and **green** for “ok”~