

Stats camp day 1

Frank Edwards

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Welcome to PhD statistics training!

Stats camp goals

1. Get your software set up
2. Remind you what these things mean:

$$\log(x)$$

$$y = 2 + 3x$$

$$\frac{d}{dx}x^3 = 3x^2$$

$$\sum_{x=1}^{10} x$$

Today: Let's install software

Step 1

Install R. <https://cran.r-project.org/>

Step 2

Install RStudio. <https://www.rstudio.com/>

Problems?

- Make it pretty! (You will be spending lots of time here...)
 - Themes
 - Pane layouts

Getting started in RStudio: packages

- Install packages (tidyverse, devtools, swirl)
- Install QSS package:

```
install.packages(c("tidyverse", "devtools", "swirl"))  
library(devtools)  
install_github("kosukeimai/qss-package", build_vignettes =  
library(swirl)  
install_course_github("kosukeimai", "qss-swirl")
```

Problems?

- Slack
 - Invites
 - Tour

- Install Git: <https://git-scm.com/downloads>
- (Optional) Register for a GitHub account: <https://github.com/>
- Clone course repository

Cloning the course gets you slides

First, choose a folder you want intro_stats to live in

```
git clone https://github.com/f-edwards/intro_stats.git
```

Then, to get updates as I push them up to the server

```
cd intro_stats  
git pull
```

Problems?

A very brief introduction to markdown

Why markdown?

1. It is pretty
2. It makes your workflow simpler
3. It is reproducible

Let's play with it
