# Using Rmarkdown and Github for reproducible and collaborative research

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# show case

introduce people behind this work

## Setup your project

- using github do the version control
- using packrat do the R package dependency management
- using ProjectTemplate to layout the directories

```
#install.packages('ProjectTemplate')
library('ProjectTemplate')
create.project('temp')
system("mv temp/* .")
system("rm -r temp/")
```

Or simply just copy your directory system everything here!

## Setup your project



#### R Markdown

This is an R Markdown presentation. 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.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document.

## Slide with Bullets

- ▶ Bullet 1
- ▶ Bullet 2
- ▶ Bullet 3

# Slide with R Code and Output

#### summary(cars)

```
##
       speed
                     dist
   Min. : 4.0 Min. : 2.00
##
   1st Qu.:12.0 1st Qu.: 26.00
##
##
   Median: 15.0 Median: 36.00
##
   Mean :15.4
                Mean : 42.98
##
   3rd Qu.:19.0
                 3rd Qu.: 56.00
   Max. :25.0
                Max. :120.00
##
```

## Slide with Plot

