

bootcamp-survey

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Goals

- Download and clean data from 2017 R Bootcamp Survey
- Visualize data
- Prepare reports in `ioslides_presentation`, `pdf_document`, and `word_document` formats

Preliminaries

Load required packages.

```
library(tidyverse)
library(googleheets)
```

Load data and examine

The survey data are stored in a Google Sheet. We'll use the `googleheets` package to open it and create a data frame. Documentation about the package can be found [here](#).

There are some idiosyncrasies in using the `googleheets` package in an R Markdown document, so I created a separate R script, `get-bootcamp-google-sheet.R` to extract the survey data and save it to a CSV under `data/survey.csv`. We can then just load this file.

```
survey <- read_csv("../data/survey.csv")
```

```
## Parsed with column specification:
## cols(
##   Timestamp = col_character(),
##   R_exp = col_character(),
##   GoT = col_integer(),
##   Age_yrs = col_integer(),
##   Sleep_hrs = col_integer(),
##   Fav_date = col_character(),
##   Tidy_data = col_character()
## )
```

```
survey
```

```
## # A tibble: 1 × 7
##       Timestamp          R_exp  GoT Age_yrs
##       <chr>          <chr> <int>   <int>
## 1 8/11/2017 10:13:58 I should be teaching this course    9    54
## # ... with 3 more variables: Sleep_hrs <int>, Fav_date <chr>,
## #   Tidy_data <chr>
```

Notice that the `get-bootcamp-googlesheet.R` script changed the names of the variables a bit. We may also want to modify the levels of the `R_exp` variable to make it an ordered factor.

```
survey$R_exp <- ordered(survey$R_exp, levels=c("No experience",
                                              "Limited experience",
                                              "Extensive",
                                              "I should be teaching this course"))
```

Visualization and analysis

Now, we can ask important questions.

```
got_vs_r_exp <- survey %>%
  ggplot() +
  aes(x=GoT, y=Age_yrs) +
  facet_grid(. ~ R_exp) +
  geom_point()
got_vs_r_exp
```

