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(googlesheets)

## Load data and examine

The survey data are stored in a [Google Sheet](https://docs.google.com/spreadsheets/d/1Ay56u6g4jyEEdlmV2NHxTLBlcjI2gHavta-Ik0kGrpg/edit#gid=896447063). We'll use the googlesheets package to open it and create a data frame. Documentation about the package can be found [here](https://cran.r-project.org/web/packages/googlesheets/vignettes/basic-usage.html).

There are some idiosyncrasies in using the googlesheets package in an R Markdown document, so I created a separate R script, get-bootcamp-googlesheet.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

