

# ASSIGNMENT 4

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2022-04-22

## Markdown Basics

### Favorite Foods

1. Ramen
2. Thai Curry
3. Seitan

### Images

### Add a Quote

Whoever fights monsters should see to it that in the process he does not become a monster. And if you gaze long enough into an abyss, the abyss will gaze back into you.

-Nietzsche

### Add an Equation

$$c^2 = a^2 + b^2$$

### Add a Footnote

Look it's a footnote!<sup>1</sup>

### Add Citations

- R for Everyone (Lander 2014)
- Discovering Statistics Using R (Field, Miles, and Field 2012)

## Inline Code

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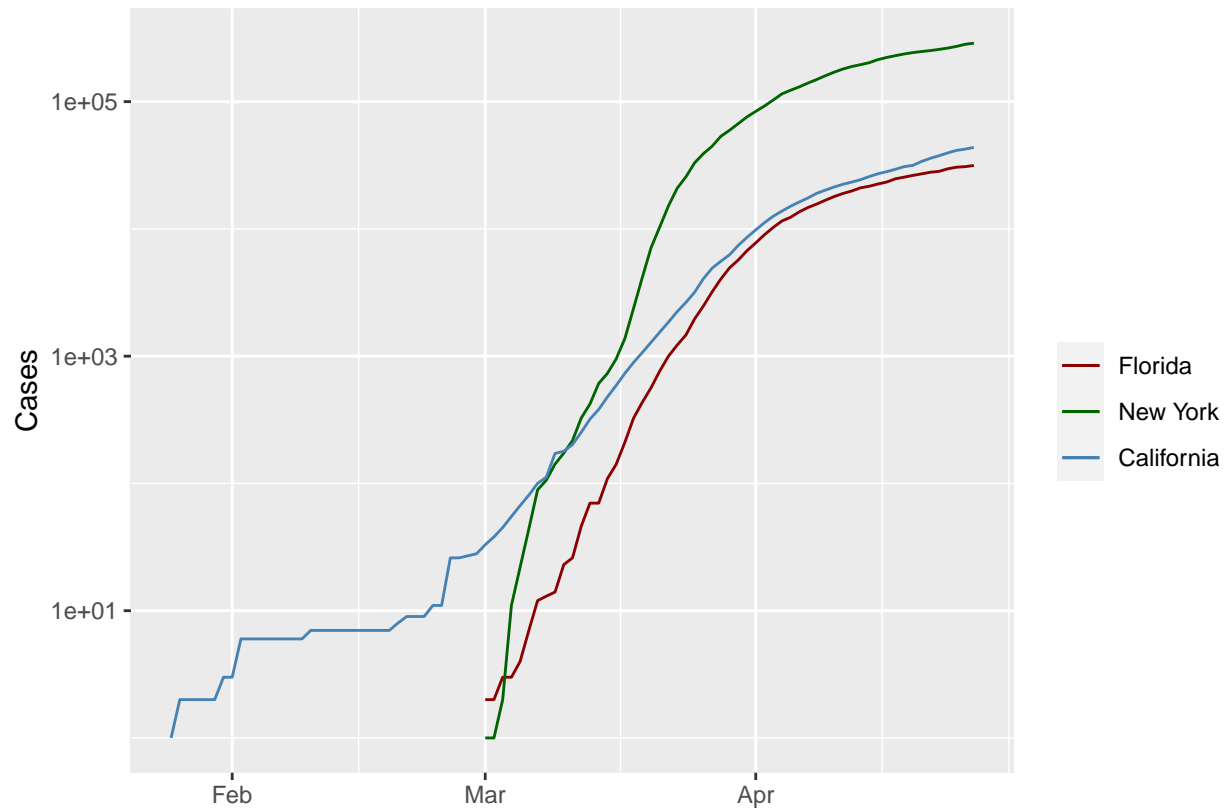
<sup>1</sup>R Markdown is very simple to learn but very useful



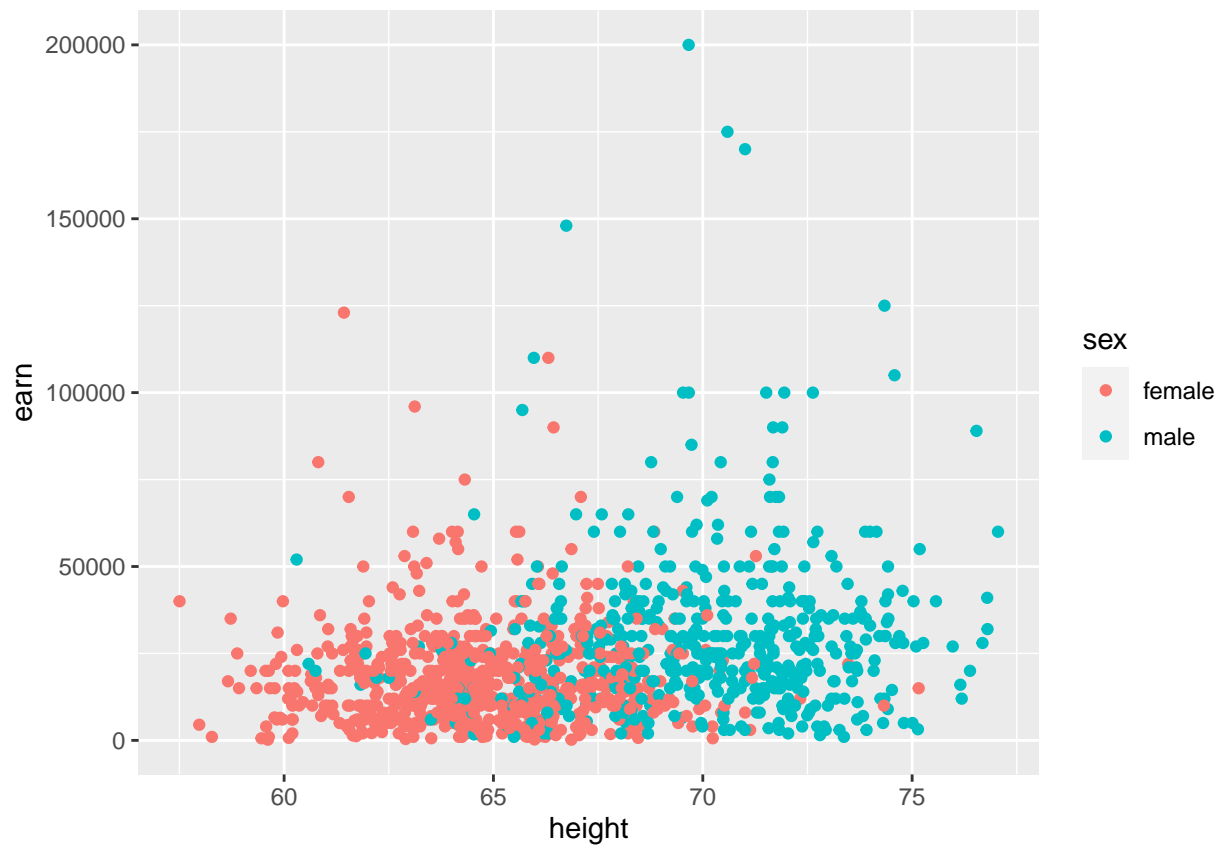
Figure 1: All Cases (Log Plot)

```
library(ggplot2)
heights_df <- read.csv("C:/Users/Stewart/Documents/GitHub/dsc520/data/r4ds/heights.csv")
covid_df <- read.csv("C:/Users/Stewart/Documents/GitHub/dsc520/data/nytimes/covid-19-data/us-states.csv")
covid_df$date <- as.Date(covid_df$date)
california_df <- covid_df[which( covid_df$state == "California"),]
ny_df <- covid_df[ which(covid_df$state == "New York"),]
florida_df <- covid_df[ which (covid_df$state == "Florida"), ]
```

## NY Times COVID-19 Data



## R4DS Height vs Earnings



## Tables

### Knitr Table with Kable

Table 1: One Ring to Rule Them All

name	race	in_fellowship	ring_bearer	age
Aragon	Men	TRUE	FALSE	88
Bilbo	Hobbit	FALSE	TRUE	129
Frodo	Hobbit	TRUE	TRUE	51
Galadriel	Elf	FALSE	FALSE	7000
Sam	Hobbit	TRUE	TRUE	36
Gandalf	Maia	TRUE	TRUE	2019
Legolas	Elf	TRUE	FALSE	2931
Sauron	Maia	FALSE	TRUE	7052
Gollum	Hobbit	FALSE	TRUE	589

## Pandoc Table

```
library(pander)
pandoc.table(characters_df, style="rmarkdown")
```

```
##
##
## |   name   | race | in_fellowship | ring_bearer | age |
## |-----|-----|-----|-----|-----|
## |  Aragon  |  Men |      TRUE     |      FALSE  |   88 |
## |   Bilbo  | Hobbit |     FALSE     |      TRUE   |  129 |
## |   Frodo  | Hobbit |     TRUE      |      TRUE   |   51 |
## | Galadriel |  Elf  |     FALSE     |     FALSE   | 7000 |
## |    Sam   | Hobbit |     TRUE      |      TRUE   |   36 |
## | Gandalf  |  Maia |     TRUE      |      TRUE   | 2019 |
## | Legolas  |  Elf  |     TRUE      |     FALSE   | 2931 |
## | Sauron   |  Maia |     FALSE     |      TRUE   | 7052 |
## | Gollum   | Hobbit |     FALSE     |      TRUE   |  589 |
```

## References

Field, A., J. Miles, and Z. Field. 2012. *Discovering Statistics Using R*. SAGE Publications. <https://books.google.com/books?id=wd2K2zC3swIC>.

Lander, J. P. 2014. *R for Everyone: Advanced Analytics and Graphics*. Addison-Wesley Data and Analytics Series. Addison-Wesley. <https://books.google.com/books?id=3eBVAgAAQBAJ>.