ASSIGNMENT 4

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2020-04-20

Markdown Basics

Favorite Foods

- 1. Biryani
- 2. Gulab Jamun
- 3. Pizza

Images

Add a Quote

From Spiderman movie:

With great power comes great reponsiblity

Add an Equation

Standard deviation equation is: $\sigma = \sqrt{(\sum (x_i - \mu)^2/N)}$

Add a Footnote

A footnote¹

Add Citations

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

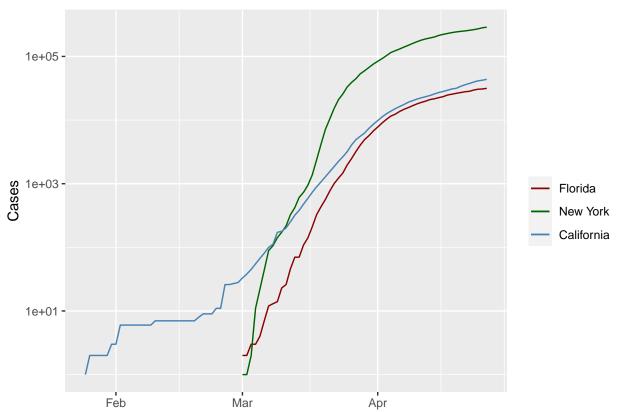
Inline Code

 $^{^{1}\}mathrm{R}$ Markdown quick refresher.



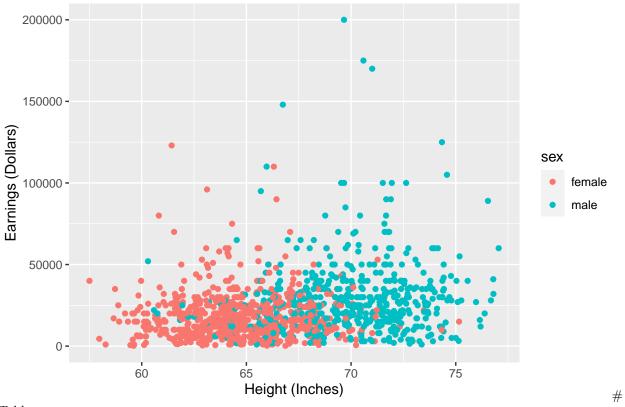
Figure 1: All Cases (Log Plot)

NY Times COVID-19 Data



R4DS Height vs Earnings

Height vs. Earnings



Tables

Knitr Table with Kable

```
characters_df <- read.csv(file = "./lotr_characters.csv")
knitr :: kable(head(characters_df), caption = 'One Ring to Rule Them All')</pre>
```

Table 1: One Ring to Rule Them All

birth	death	gender	hair	height	name	race	r
		Female			Adanel	Men	
TA 2978	February 26 ,3019	Male	Dark (book) Light brown (movie)		Boromir	Men	-
	March ,3019	Male			Lagduf	Orcs	ļ
TA 280	TA 515	Male			Tarcil	Men	Α
		Male			Fire-drake of Gondolin	Dragon	
SA 2709	SA 2962	Male			Ar-Adûnakhôr	Men	N

Pandoc Table

```
# I was not able to find exact character.df, lord of the rings file that assignment
# has mentioned, thus to show the functionality I used mtcars dataset
library(pander)
pandoc.table(mtcars, style = 'rmarkdown')
```

##								
##								
##	l	mpg	cyl	disp	l hp	drat	wt	I
##	::	::	::	::	::	::	::	l
##	**Mazda RX4**	21	l 6	160	110	3.9	2.62	l
##	**Mazda RX4 Wag**	21	l 6	160	110	3.9	2.875	l
##	**Datsun 710**	22.8	4	108	93	3.85	2.32	I
##	**Hornet 4 Drive**	21.4	l 6	258	110	3.08	3.215	l
##	**Hornet Sportabout**	18.7	8	360	175	3.15	3.44	I
##	**Valiant**	18.1	l 6	225	105	2.76	3.46	l
##	**Duster 360**	14.3	8	360	245	3.21	3.57	l
##	**Merc 240D**	24.4	4	146.7	62	3.69	3.19	l
##	**Merc 230**	22.8	4	140.8	95	3.92	3.15	l
##	**Merc 280**	19.2	l 6	167.6	123	3.92	3.44	l
##	**Merc 280C**	17.8	l 6	167.6	123	3.92	3.44	l
##	**Merc 450SE**	16.4	8	275.8	180	3.07	4.07	l
##	**Merc 450SL**	17.3	8	275.8	180	3.07	3.73	l
##	**Merc 450SLC**	15.2	8	275.8	180	3.07	3.78	l
##	**Cadillac Fleetwood**	10.4	8	472	205	2.93	5.25	l
##	**Lincoln Continental**	10.4	8	460	215	3	5.424	l
##	**Chrysler Imperial**	14.7	8	440	230	3.23	5.345	l
##	**Fiat 128**	32.4	4	78.7	66	4.08	2.2	l
##	**Honda Civic**	30.4	4	75.7	52	4.93	1.615	l
##	**Toyota Corolla**	33.9	4	71.1	65	4.22	1.835	l
##	**Toyota Corona**	21.5	4	120.1	97	3.7	2.465	l
##	**Dodge Challenger**	15.5	8	318	150	2.76	3.52	l
##	**AMC Javelin**	15.2	8	304	150	3.15	3.435	l
##	**Camaro Z28**	13.3	8	350	245	3.73	3.84	l
##	**Pontiac Firebird**	19.2	8	400	175	3.08	3.845	l
##	**Fiat X1-9**	27.3	4	79	l 66	4.08	1.935	l
##	**Porsche 914-2**	26	4	120.3	91	4.43	2.14	l
##	**Lotus Europa**	30.4	4	95.1	113	3.77	1.513	l
##	**Ford Pantera L**	15.8	8	351	l 264	4.22	3.17	l
##	**Ferrari Dino**	19.7	l 6	145	175	3.62	2.77	l
##	**Maserati Bora**	15	l 8	301	335	3.54	3.57	l
##	**Volvo 142E**	21.4	4	121	109	4.11	2.78	l
##								

Table: Table continues below

##

| qsec | vs | am | gear | carb | ## | ## |:----:|:--:|:--:| ## | **Mazda RX4** | 16.46 | 0 | 1 | 4 **Mazda RX4 Wag** | 17.02 | 0 | 1 | ## | **Datsun 710** | 18.61 | 1 | 1 | ## | **Hornet 4 Drive** | 19.44 | 1 | 0 | ## | **Hornet Sportabout** | 17.02 | 0 | 0 | ## | **Valiant** | 20.22 | 1 | 0 | | 1 ## | **Duster 360** | 15.84 | 0 | 0 | 3 | 4 ## | **Merc 240D** 1 20 | 1 | 0 | 4 **Merc 230** | 22.9 | 1 | 0 | 4 ## | ## | **Merc 280** | 18.3 | 1 | 0 | 4 1 4 ## | **Merc 280C** | 18.9 | 1 | 0 | 4 1 4

```
## |
          **Merc 450SE**
                                | 17.4
                                         10
                                                0
                                                               3
## |
          **Merc 450SL**
                                  17.6
                                           0
                                                0
                                                       3
                                                               3
                                                                   Ι
                                                               3
##
          **Merc 450SLC**
                                   18
                                           0
                                                0
                                                       3
                                                               4
     **Cadillac Fleetwood**
                                  17.98
                                        | 0
                                                0
                                                            ##
                                                       3
##
     **Lincoln Continental**
                                  17.82
                                           0
                                                0
                                                               4
       **Chrysler Imperial**
                                 17.42 | 0
                                                               4
##
                                                0
           **Fiat 128**
                                | 19.47 | 1
                                                               1
## |
                                                 1
                                                       4
                                                               2
## |
          **Honda Civic**
                                | 18.52 |
                                           1
                                                 1
## |
       **Toyota Corolla**
                                  19.9
                                         | 1
                                              1
                                                 1
                                                       4
                                                               1
                                                       3
##
        **Toyota Corona**
                                  20.01 | 1
                                                0
                                                               1
##
      **Dodge Challenger**
                                  16.87 | 0
                                                0
                                                       3
                                                               2
                                                       3
                                                               2
          **AMC Javelin**
                                  17.3
                                           0
                                                 0
##
                                                       3
                                                               4
##
          **Camaro Z28**
                                  15.41 | 0
                                                0
                                                               2
       **Pontiac Firebird**
                                | 17.05
                                        1 0
                                                       3
## |
## I
           **Fiat X1-9**
                                           1
                                                       4
                                                               1
                                | 18.9
                                                 1
## |
         **Porsche 914-2**
                                  16.7
                                           0
                                                 1
                                                       5
                                                               2
                                 16.9
                                                       5
                                                               2
## |
        **Lotus Europa**
                                           1
                                                 1
##
       **Ford Pantera L**
                                  14.5
                                           0
                                                1
                                                       5
        **Ferrari Dino**
                                  15.5
                                                       5
                                                               6
## |
                                         1 0
                                                1
                                                            Ι
                                                       5
## |
         **Maserati Bora**
                                  14.6
                                         10
                                                 1
                                                            8
                                | 18.6
## |
          **Volvo 142E**
                                         | 1
                                              | 1
                                                               2
```

References

- 1. https://rmarkdown.rstudio.com/authoring_bibliographies_and_citations.html
- 2. https://www.rstudio.com/wp-content/uploads/2016/03/rmarkdown-cheatsheet-2.0.pdf

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.