Assignment4

Markdown Basics

Favorite Food

Pizza
Fruits
Chicken

Images

Add a Quote

> In three words I can sum up everything I've learned about life: it goes on

Add an Equation

$$E = mc^2$$

$$f(x) = \beta_0 + \beta_1 x + \beta_2 x^2 + \beta_3 x^3 + \beta_4 (x - \xi)_+^3$$

$$(x - \xi)_+^3 = \begin{cases} (x - \xi)^3, & x > \xi \\ 0, & x \leq \xi \end{cases}$$

$$\begin{aligned} (x \leq \xi) \Rightarrow f(x) &= \beta_0 + \beta_1 x + \beta_2 x^2 + \beta_3 x^3 \\ (x > \xi) \Rightarrow f(x) &= \beta_0 + \beta_1 x + \beta_2 x^2 + \beta_3 x^3 + \beta_4 (x^3 - 3x^2\xi + 3x\xi^2 - \xi^3) \\ &= (\beta_0 + \beta_4 \xi^3) + (\beta_1 + 3\beta_4 \xi^2) x + (\beta_2 - 3\beta_4) \end{aligned}$$

Add a Footnote

This is a footnote [1].

Add citations

R for Everyone
Discovering Statistics Using R

[1] This is a footnote in R markdown

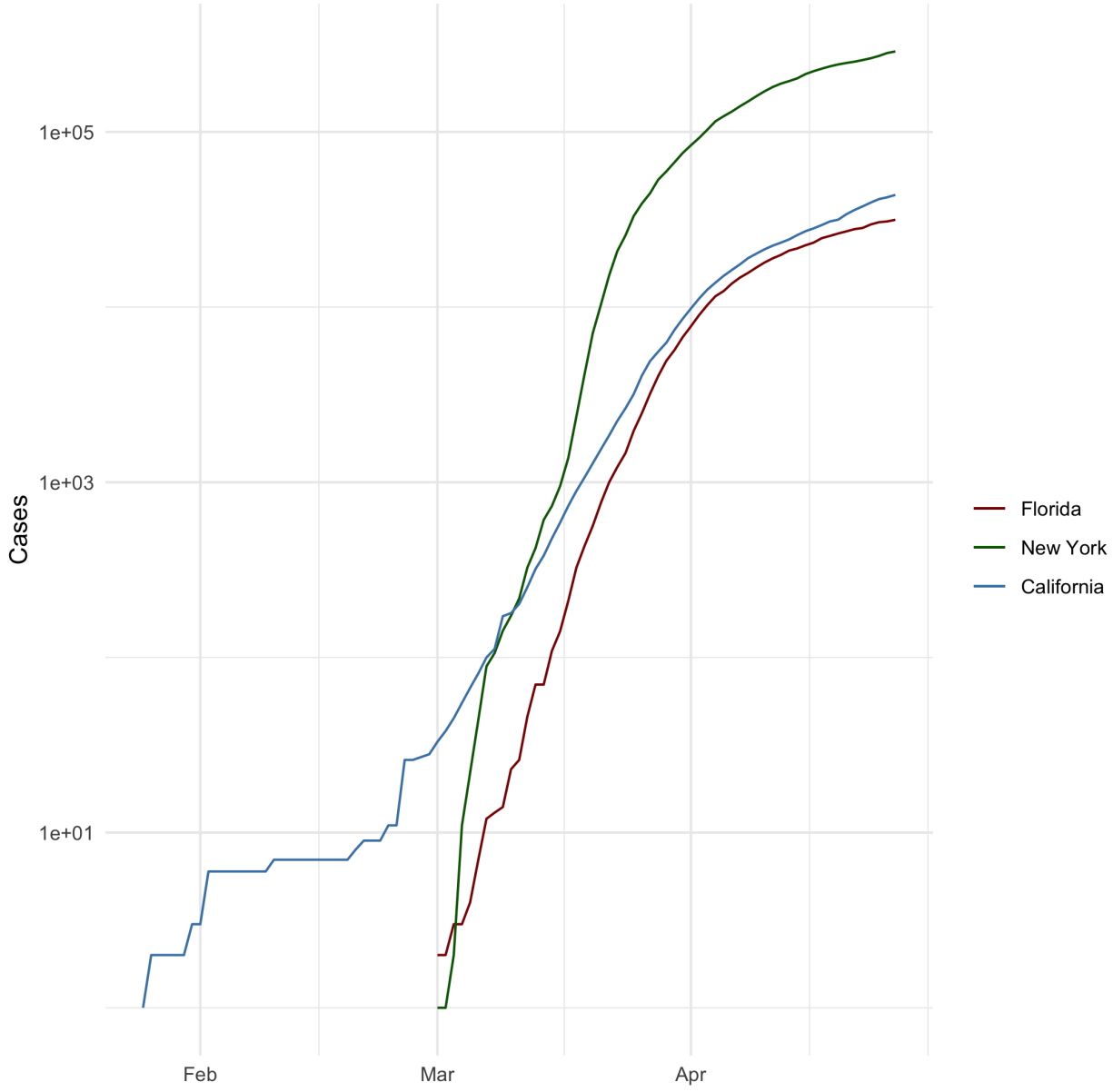
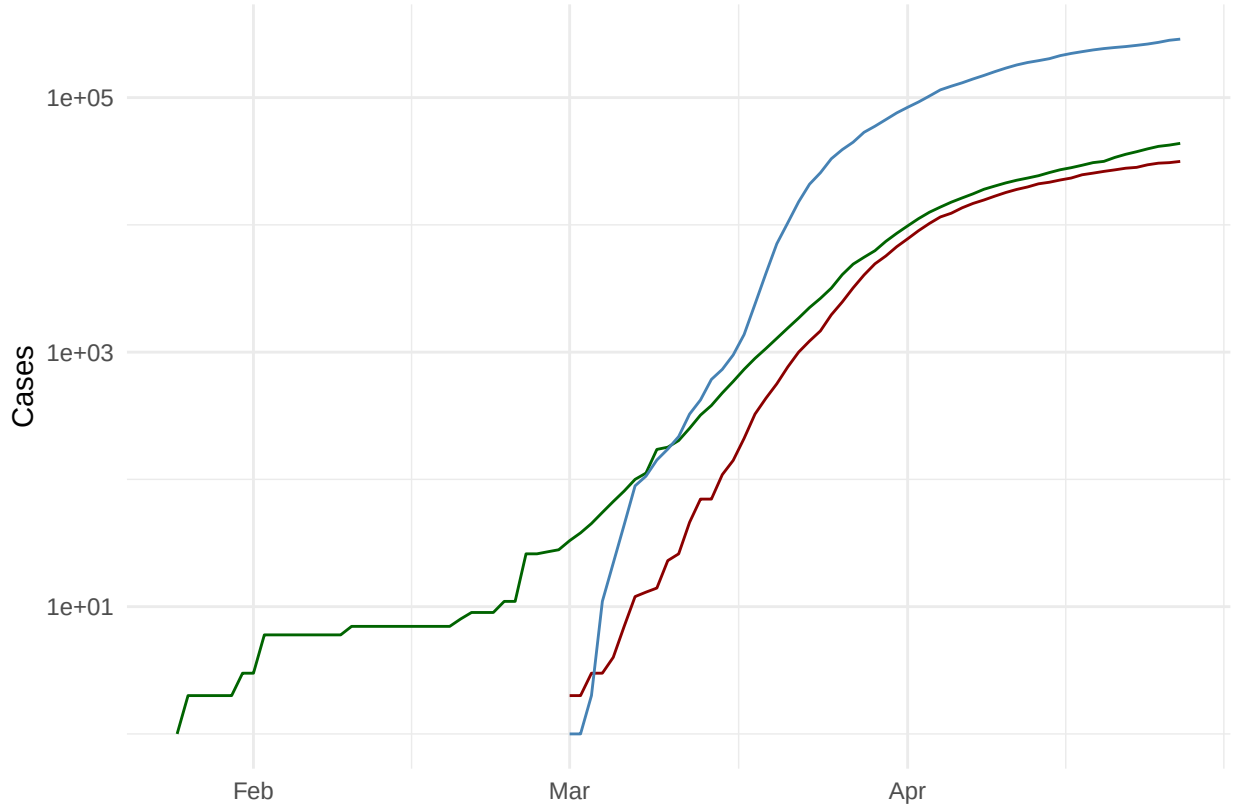


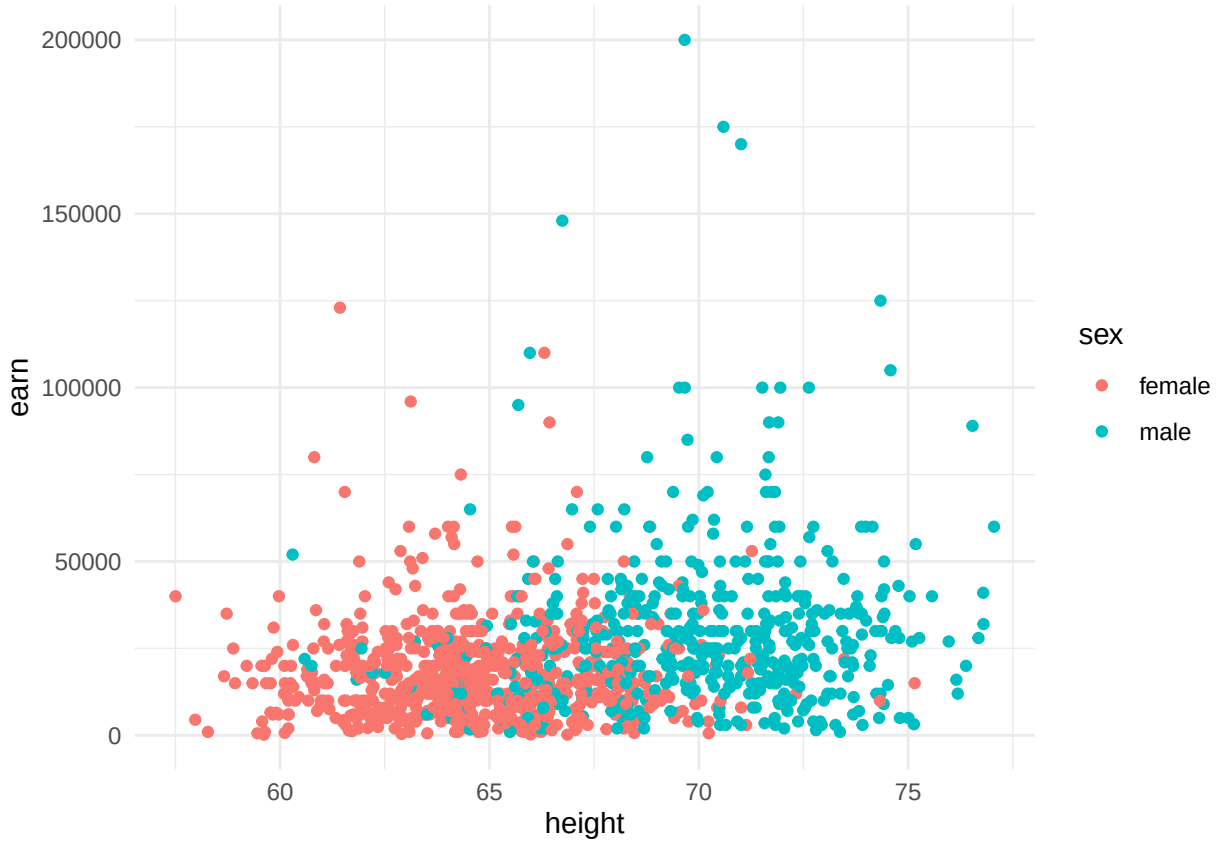
Figure 1: All cases log plot

Inline code

NY Times COVID-19 Data



R4DS Height vs Earnings



Knitr Table with Kable

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

```
##
##
##    name       race    in_fellowship   ring_bearer   age
## ----------- -------- --------------- ------------- ------
```

```
##   Aragon      Men          Yes             No          88
##    Bilbo     Hobbit        No              Yes        129
##    Frodo     Hobbit        Yes             Yes         51
##  Galadriel    Elf          No              No         7000
##     Sam      Hobbit        Yes             Yes         36
##   Gandalf     Maia         Yes             Yes        2019
##   Legolas     Elf          Yes             No         2931
##   Sauron      Maia         No              Yes        7052
##   Gollum     Hobbit        No              Yes        589
```

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

References

@R1, @R2