```
title: "ASSIGNMENT 4"
author: "Harlan Wittlieff"
date: '2021-10-10'
output:
 pdf document: default
 html document: default
 word document: default
bibliography: bibliography.bib
# Markdown Basics
## Favorite Foods
1. Bruschetta
2. Pizza
2. Mac and Cheese
## Images
![All Cases (Log Plot)](completed/assignment04/plots/10-all-cases-log.png)
## Add a Quote
>Many of life's failures are people who did not realize how close they were to
success when they gave up.
## Add an Equation
$a^{2} + b^{2} = c^{2}$
## Add a Footnote
This is a footnote<sup>^</sup>[This is a footnote.].
## Add Citations
- R for Everyone [@lander2014r]
- Discovering Statistics Using R [@field2012discovering]
# Inline Code
```{r include=FALSE}
library(ggplot2)
heights df <- read.csv(file='data/r4ds/heights.csv')</pre>
covid df <- read.csv("data/nytimes/covid-19-data/us-states.csv")</pre>
covid df$date <- as.Date(covid df$date)</pre>
california df <- covid df[ which( covid df$state == "California"), ]</pre>
ny df <- covid df[ which( covid df$state == 'New York'), ]</pre>
florida df <- covid df[ which( covid df$state == 'Florida'), ]</pre>
## NY Times COVID-19 Data
```{r echo=FALSE}
ggplot(data=florida df, aes(x=date, group=1)) +
```

```
geom line(aes(y = cases, colour = "Florida")) +
 geom_line(data=ny_df, aes(y = cases,colour="New York")) +
 geom line(data=california df, aes(y = cases, colour="California")) +
 scale colour manual("",
                    breaks = c('Florida', 'New York', 'California'),
                    values = c('darkred', 'darkgreen', 'steelblue')) +
 xlab(" ") + ylab("Cases") + scale y log10()
. . .
## R4DS Height vs Earnings
```{r echo=FALSE}
ggplot(heights df, aes(x=height, y=earn, col=sex)) + ggtitle("Height vs.
Earnings") +
   xlab("Height (Inches)") + ylab("Earnings (Dollars)") + geom point()
. . .
# Tables
```{r include=FALSE}
name <- c("Aragon", "Bilbo", "Frodo", "Galadriel", "Sam", "Gandalf",</pre>
"Legolas", "Sauron", "Gollum")
race <- c("Men", "Hobbit", "Hobbit", "Elf", "Hobbit", "Maia", "Elf", "Maia",</pre>
"Hobbit")
in fellowship <- c(TRUE, FALSE, TRUE, FALSE, TRUE, TRUE, TRUE, FALSE, FALSE)
ring bearer <- c(FALSE, TRUE, TRUE, FALSE, TRUE, TRUE, FALSE, TRUE, TRUE)
age <- c(88, 129, 51, 7000, 36, 2019, 2931, 7052, 589)
characters df <- data.frame(name, race, in fellowship, ring bearer, age)
## Knitr Table with Kable
```{r echo=FALSE}
knitr::kable(characters df, caption="One Ring to Rule Them All")
## Pandoc Table
+----+
|Name |Race |In Fellowship?|Is Ring Bearer?|Age |
+:====:+:====::+:====::+:===::+:==::+:==::+
|Aragon|Men |Yes
                     |No
  |88|
+----+
                     |Yes
|Bilbo |Hobbit|No
+----+
|Frodo |Hobbit|Yes
                         |Yes
  |51 |
```

+		+	+	+
Sam		•	Yes 	36
Sauron		•	•	7052
++	+	+	+	+

<sup>#</sup> References