Project 4

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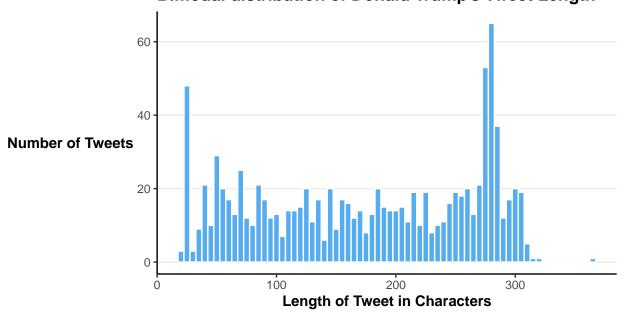
Load data

```
dtweets <- read_rds(".//data//dtweets.rds")
```

Question 2

```
dtweets |>
  mutate(length = str_length(text)) |>
    ggplot() +
    geom_histogram(aes(x=length), fill = "#55ACEE", color = "white", binwidth =5) +
    labs(title = "Bimodal distribution of Donald Trump's Tweet Length") +
    xlab("Length of Tweet in Characters")+
    ylab("Number of Tweets")
```

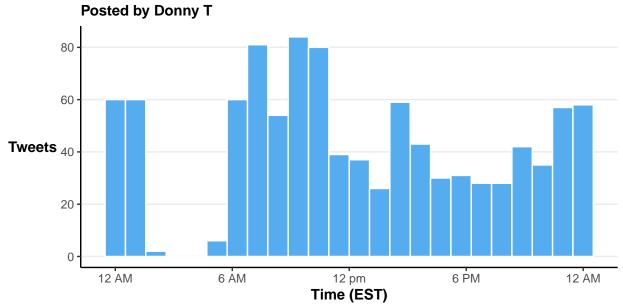
Bimodal distribution of Donald Trump's Tweet Length



The interesting finding from this histogram is that there are tweets longer than the 280 character limit.

Question 3

Tweets by Time of Day



Question 4

```
mentions <- dtweets |>
  pull(text) |>
  str_extract_all(pattern = "\\@\\w{4,15}")

map(mentions, str_split, pattern = ", ") |>
  unlist() |>
```

```
as_tibble() |>
 group_by(value) |>
 count() |>
 ungroup() |>
 arrange(desc(n)) |>
 head(n = 20)
## # A tibble: 20 x 2
    value
##
    <chr>
                  <int>
## 1 @realDonaldTrump 108
## 2 @FoxNews
## 3 @CDCgov
                     16
## 4 @POTUS
                     12
## 5 @foxandfriends 8
## 6 @WhiteHouse
## 7 @CMSGov
                     6
## 8 @nytimes
                     6
                    6
## 9 @SteveDaines
## 10 @Mike_Pence
## 11 @trish_regan
## 12 @washingtonpost
## 13 @Battelle
## 14 @FoxBusiness
## 15 @GovBillLee
## 18 @US FDA
## 19 @BretBaier
                      3
## 20 @DHS_Wolf
```

Question 5

```
dtweets |>
 top_n(favorite_count, n = 10) |>
 select(text) |>
 pull() |>
 str_wrap(width = 40) |>
 cat(sep = "\n \n") >
 message()
## I am a great friend and admirer of the
## Queen & amp; the United Kingdom. It was
## reported that Harry and Meghan, who left
## the Kingdom, would reside permanently
## in Canada. Now they have left Canada for
## the U.S. however, the U.S. will not pay
## for their security protection. They must
## pay!
## THIS IS WHY WE NEED BORDERS!
## HYDROXYCHLOROQUINE & amp; AZITHROMYCIN,
```

```
## taken together, have a real chance to
## be one of the biggest game changers in
## the history of medicine. The FDA has
## moved mountains - Thank You! Hopefully
## they will BOTH (H works better with A,
## International Journal of Antimicrobial
## Agents).....
##
## We are going to WIN, sooner rather than
## later!
## The world is at war with a hidden enemy.
## WE WILL WIN!
## God Bless the USA!
## TODAY IS A NATIONAL DAY OF PRAYER. GOD
## BLESS EVERYONE!
## THE UNITED STATES LOVES ITALY! https://
## t.co/DESUJ4QM41
## It is my great honor to declare Sunday,
## March 15th as a National Day of Prayer.
## We are a Country that, throughout
## our history, has looked to God for
## protection and strength in times like
## these....
## Mini Mike, you're easy! https://t.co/
## rxFiqSB9RQ https://t.co/G2M1QHj0HV
```

Question 6

What tweet did Pres. Trump tag the most people in?

```
mentions <- dtweets |>
  pull(text) |>
  str_extract_all(pattern = "\\@\\w{4,15}")

new_mentions <- mentions |>
  map(length) |>
  unlist() |>
  as_tibble() |>
  rename(mentions = value) |>
  mutate(index = row_number()) |>
  arrange(desc(mentions))

dtweets |>
  mutate(index = row_number()) |>
  inner_join(new_mentions) |>
```

```
top_n(mentions, n = 1) |>
select(text) |>
str_wrap(width = 40) |>
cat()

## @DrTedros @WHOWPRO @pahowho @WHO_Europe
## @WHOAFRO @WHOEMRO @WHOSEARO "<U+0001F51F> it's

## normal &amp; understandable to feel
## anxious, especially if you live in
## a country or community that has been
## affected. Find out what you can do in
## your community. Discuss how to stay safe
## with your workplace, school or place of
## worship"-@DrTedros #COVID19 #coronavirus
## https://t.co/M4BQzpdh2j
```