Project 4

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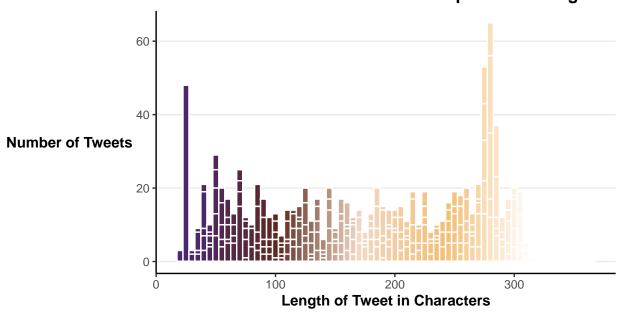
12/2/2021

Load data

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

Question 2

Bimodal distribution of Donald Trump's Tweet Length

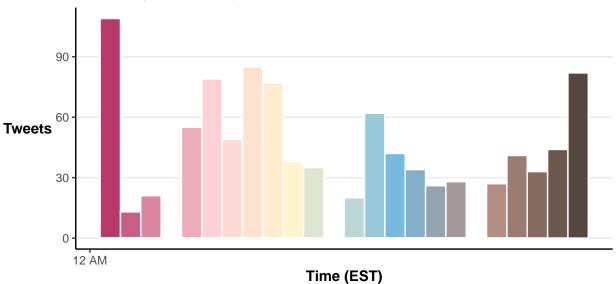


The interesting finding from this histogram is that there are tweets longer than the 280 character limit.

Question 3

```
dtweets |>
 mutate(date = with_tz(as_datetime(created_at), tzone = "America/New_york"),
         time = as_hms(date))|>
  ggplot(aes(x = as.factor(hour(time)))) +
  geom_histogram(aes(fill = as.factor(hour(time))), color = "white", bins = 24) +
  scale_x_time(
   breaks = c(as_hms("00:00:00"), as_hms("06:00:00"), as_hms("12:00:00"),
               as_hms("18:00:00"), as_hms("24:00:00")),
   labels = c("12 AM", "6 AM", "12 pm", "6 PM", "12 AM")
 ) +
  scale_fill_taylor(palette = "lover") +
  labs(
   title = "Tweets by Time of Day",
   subtitle = "Created by Pres. Trump",
   x = "Time (EST)",
   y = "Tweets"
  theme(legend.position = "none")
```

Tweets by Time of Day Created by Pres. Trump



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
                         8
## 7 @CMSGov
## 8 @nytimes
                         6
## 9 @SteveDaines
                         6
## 10 @Mike Pence
                         5
## 11 @trish regan
## 12 @washingtonpost
## 13 @Battelle
## 14 @FoxBusiness
## 15 @GovBillLee
## 16 @SenJohnBarrasso
## 17 @stevenmnuchin1
## 18 @US_FDA
## 19 @BretBaier
## 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 & 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
```