sentiment analysis

lomibao and rabago

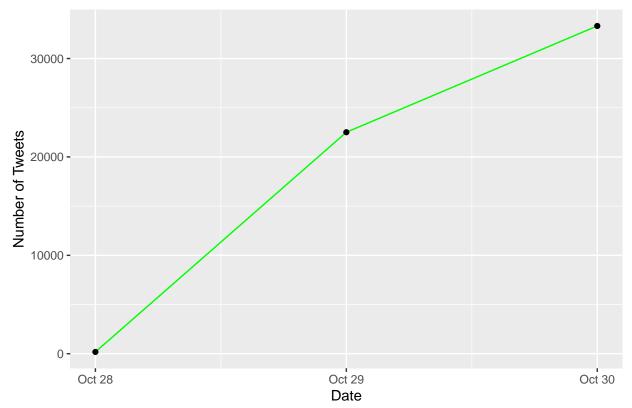
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installing the packages.

```
library("dplyr")
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library("ggplot2")
library("stringr")
library("lubridate")
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
importing the csv.file.
dataf <- read.csv("/cloud/project/sentiment analysis/tweetsDF.csv")</pre>
cleaning the data from the dataset.
cleaned_tweetsDf <- dataf %>%
  select(-c( statusSource, Created_At_Round)) %>%
  mutate(created = as.POSIXct(created, format = "%Y-%m-%d %H:%M:%S"),
         date = as.Date(created),
         hour = hour(created),
         day_of_week = weekdays(created)) %>%
  distinct(text, .keep_all = TRUE)
# Trend 1: Tweet Volume Over Time
tweet_trend <- cleaned_tweetsDf %>%
  group_by(date) %>%
  summarise(tweet_count = n())
#plotting the trend
ggplot(tweet_trend, aes(x = date, y = tweet_count)) +
```

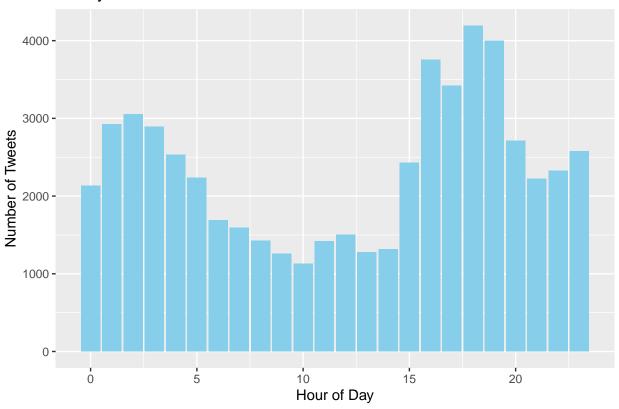
```
geom_line(color = "green") +
geom_point() +
theme_gray() +
labs(title = "Number of Tweets Over Time",
    x = "Date",
    y = "Number of Tweets")
```

Number of Tweets Over Time



Trend volume but per hour.

Hourly Tweet Patterns



Trend patterns in week;

