
output:

pdf_document: default

html_document: default

``{r}

library(rwhatsapp)

library(ggplot2)

library(ggimage)

library(tidyverse)

library(tidytext)

library(lubridate)

library(stopwords)

library(dplyr)

library(tidyr)

#load Data

#Import and Check Structure of Data

chat <- rwa_read("C:/Users/Talha/Downloads/_chat.txt") %>%

filter(!is.na(author)) # remove messages without author

chat

#Messages Per day

chat%>%

mutate(day = date(time)) %>%

count(day) %>%

ggplot(aes(x = day, y = n)) +

geom_bar(stat = "identity") +

ylab("y axis") + xlab("x axis") +

```
ggtitle("Messages in 1 day day")
```

#Number Of Messages

```
chat %>%  
  mutate(day = date(time)) %>%  
  count(author) %>%  
  ggplot(aes(x = reorder(author, n), y = n)) +  
  geom_bar(stat = "identity") +  
  ylab("") + xlab("") +  
  coord_flip() +  
  ggtitle("Number of messages")
```

#Most Often Used Emojis

```
chat %>%  
  unnest(emoji) %>%  
  count(author, emoji, sort = TRUE) %>%  
  group_by(author) %>%  
  top_n(n = 6, n) %>%  
  ggplot(aes(x = reorder(emoji, n), y = n, fill = author)) +  
  geom_col(show.legend = FALSE) +  
  ylab("") +  
  xlab("") +  
  coord_flip() +  
  facet_wrap(~author, ncol = 2, scales = "free_y") +  
  ggtitle("Most often used emojis")
```

#Most Often Used Words

```
chat %>%  
  unnest_tokens(input = text,
```

```
      output = word) %>%  
count(author, word, sort = TRUE) %>%  
group_by(author) %>%  
top_n(n = 6, n) %>%  
ggplot(aes(x = reorder_within(word, n, author), y = n, fill = author)) +  
geom_col(show.legend = FALSE) +  
ylab("") +  
xlab("") +  
coord_flip() +  
facet_wrap(~author, ncol = 2, scales = "free_y") +  
scale_x_reordered() +  
ggtitle("Most often used words")
```

```
```
```