# WhatsAppChatAnalysisInR

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#### R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
library(stringr)
library(ggplot2)
library("rwhatsapp")
## Warning: package 'rwhatsapp' was built under R version 4.1.2
library("dplyr")
## Warning: package 'dplyr' was built under R version 4.1.2
##
## 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("lubridate")
## Warning: package 'lubridate' was built under R version 4.1.2
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
```

```
library("tidyr")

## Warning: package 'tidyr' was built under R version 4.1.2

library("tidytext")

## Warning: package 'tidytext' was built under R version 4.1.2

library("stopwords")
```

## Warning: package 'stopwords' was built under R version  $4.1.2\,$ 

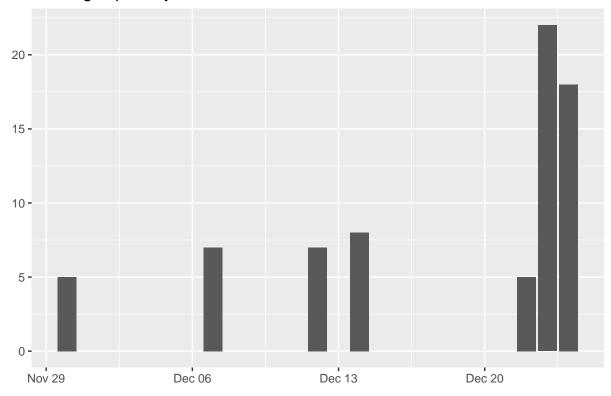
## **Including Plots**

You can also embed plots, for example:

```
chat <- rwa_read("MyChat.txt") %>%
  filter(!is.na(author))

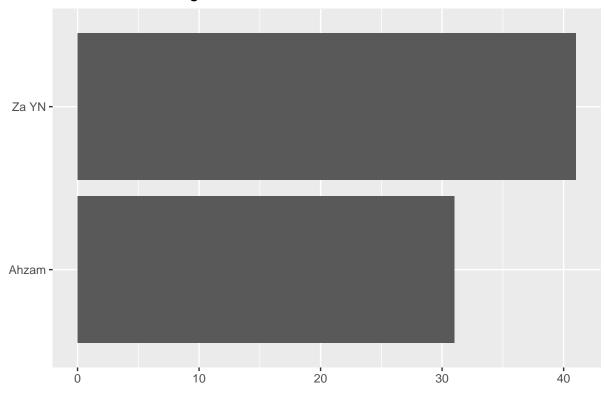
chat %>%
  mutate(day = date(time)) %>%
  count(day) %>%
  ggplot(aes(x = day, y = n)) +
  geom_bar(stat = "identity") +
  ylab("") + xlab("") +
  ggtitle("Messages per day")
```

# Messages per day

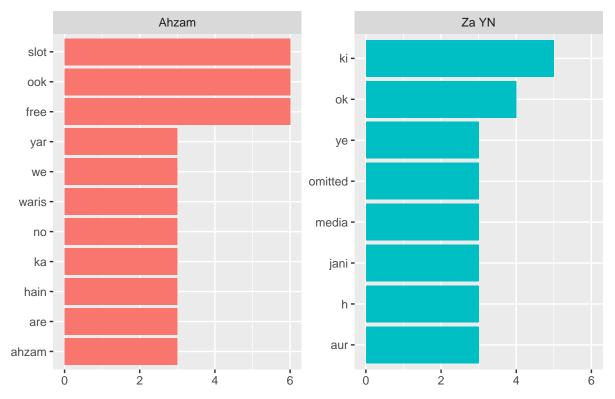


```
chat %>%
  mutate(day = date(time)) %>%
  count(author) %>%
  ggplot(aes(x = reorder(author, n), y = n)) +
  geom_bar(stat = "identity") +
  ylab("") + xlab("") +
  coord_flip() +
  ggtitle("Number of messages")
```

## Number of messages



### Most often used words



Note that the  $\mbox{echo}$  = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.