

# Sentiment analysis

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- Introduction

-Loading required data and packages

## Introduction

This project is to showcase my skill in sentiment analysis, so i will be drawing insights from a family whatsapp group data. the following can be extected.

-Data wrangling

-Exploratory data analysis

-Visualizations

-Analysis

-Inferences

## Loading required data and packages

The following packages will be loaded for this study incase needed.

```
library(rwhatsapp)
library(ggplot2)
library(lubridate)
```

```
##
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union
```

```
library(tidytext)
library(stopwords)
```

```
## Warning: package 'stopwords' was built under R version 4.4.0
```

```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr   1.1.2     v stringr 1.5.0
## v forcats 1.0.0     v tibble  3.2.1
## v purrr   1.0.1     v tidyr   1.3.0
## v readr   2.1.4
```

```
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(tidymodels)

## -- Attaching packages ----- tidymodels 1.1.0 --
## v broom 1.0.4 v rsample 1.1.1
## v dials 1.2.0 v tune 1.1.1
## v infer 1.0.4 v workflows 1.1.3
## v modeldata 1.1.0 v workflowsets 1.0.1
## v parsnip 1.1.0 v yardstick 1.2.0
## v recipes 1.0.6
## -- Conflicts ----- tidymodels_conflicts() --
## x scales::discard() masks purrr::discard()
## x dplyr::filter() masks stats::filter()
## x recipes::fixed() masks stringr::fixed()
## x dplyr::lag() masks stats::lag()
## x yardstick::spec() masks readr::spec()
## x recipes::step() masks stats::step()
## * Learn how to get started at https://www.tidymodels.org/start/

library(syuzhet)

## Warning: package 'syuzhet' was built under R version 4.4.0
##
## Attaching package: 'syuzhet'
##
## The following object is masked from 'package:scales':
##
## rescale

library(RColorBrewer)
```

This packages individually have their role to play assuming we'd need them, we will give a brief run of its significances

## packages and uses

Package	use/importance
rwatsapp	rwatsapp provides some infrastructure to work with WhatsApp text data in R. It is a small and robust package.
ggplot2	It is a popular package which is used for building Plots and effective Visualizations.
lubridate	This package is used for Lubricating the use of Dates and Times in any Analysis.
wordcloud	Used in building the wordcloud.
tidytext	Makes the text mining process easier and consistent.
stopwords	For inclusion of Stopwords.
tidyverse	It is a collection of the few packages in R, so the packages get self-included on including tidyverse.
tidymodels	Forms the basis of tidy machine learning.
syuzhet	Extracts the sentiment and sentiment-derived plot arcs from text using a variety of sentiment dictionaries.