

# TrendAnalysisSentimentAnalysisProject(Berja, Bibit, Buenvenida)

Bibit, Berja, Buenvenida

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The goal of this research is to investigate popular sentiment toward BLACKPINK and its members throughout a period overlapping with both their Houston concert and the Itaewon tragedy. In particular in which, we want to:

1. Recognize how outside events affect mood and activity on social media of the people.
2. Give BLACKPINK's management team useful information on public opinion and involvements.
3. Determine important patterns and feelings to guide public relations management tactics during emergency situations.

```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v ggplot2    3.5.1      v tibble    3.2.1
## v lubridate  1.9.4      v tidyr     1.3.1
## v purrr      1.0.2
## -- 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(lubridate)
library(ggplot2)
library(tidytext)
library(sentimentr)
```

– Data Loading and Inspection –

```
# Load the dataset
data <- read.csv("/cloud/project/tweetsDF.csv")

# Inspect the structure of the data
str(data)
```

```
## 'data.frame':   58086 obs. of  7 variables:
## $ X              : int  1 2 3 4 5 6 7 8 9 10 ...
## $ screenName      : chr  "whourj31" "nnainot" "febry_sri_M" "telehuntwatch" ...
## $ text            : chr  "A soldier angry at the support fund consolation money for the bereaved far
## $ created         : chr  "2022-10-30 23:59:43" "2022-10-30 23:59:32" "2022-10-30 23:59:31" "2022-10-
## $ statusSource    : chr  "<a href=\"https://www.fs-poster.com/\" rel=\"nofollow\">FS_Poster_App</a>
## $ Created_At_Round: chr  "2022-10-31 00:00:00" "2022-10-31 00:00:00" "2022-10-31 00:00:00" "2022-10-
## $ tweetSource     : chr  "others" "android" "android" "others" ...
```

```
# Check for missing values
summary(data)
```

```
##           X           screenName           text           created
## Min.      :    1   Length:58086   Length:58086   Length:58086
## 1st Qu.:14522   Class :character   Class :character   Class :character
## Median :29044   Mode  :character   Mode  :character   Mode  :character
## Mean      :29044
## 3rd Qu.:43565
## Max.      :58086
## statusSource   Created_At_Round   tweetSource
## Length:58086   Length:58086   Length:58086
## Class :character   Class :character   Class :character
## Mode  :character   Mode  :character   Mode  :character
##
##
##
```

```
# Display the first few rows of the dataset
head(data)
```

```
##    X    screenName
## 1 1      whourj31
## 2 2      nnainot
## 3 3    febry_sri_M
## 4 4 telehuntwatch
## 5 5    Typing0824
## 6 6    niccijsmith
##
## 1          A soldier angry at the support fund consolation money for the bereaved family of the Itaewon
## 2                                     Nah this Itaewon
## 3
## 4 TRANSLATION :\nSeoul residents lay flowers at a makeshift memorial near the site of the crush in Itaewon
## 5 The Itaewon stampede incident really caught me off guard. Makes me notice how important it is to be safe
## 6 "What to do about my child? What to do about my child?" Park Ga-young's mother, Choi Seon-mi, said
##           created
## 1 2022-10-30 23:59:43
## 2 2022-10-30 23:59:32
## 3 2022-10-30 23:59:31
## 4 2022-10-30 23:59:28
## 5 2022-10-30 23:59:20
## 6 2022-10-30 23:59:04
##
##                                     statusSource
## 1          <a href="https://www.fs-poster.com/" rel="nofollow">FS_Poster_App</a>
## 2 <a href="http://twitter.com/download/android" rel="nofollow">Twitter for Android</a>
## 3 <a href="http://twitter.com/download/android" rel="nofollow">Twitter for Android</a>
## 4          <a href="https://ruprop.live" rel="nofollow">telehunt</a>
## 5 <a href="http://twitter.com/download/android" rel="nofollow">Twitter for Android</a>
## 6   <a href="http://twitter.com/download/iphone" rel="nofollow">Twitter for iPhone</a>
##       Created_At_Round tweetSource
## 1 2022-10-31 00:00:00      others
## 2 2022-10-31 00:00:00      android
## 3 2022-10-31 00:00:00      android
## 4 2022-10-31 00:00:00      others
## 5 2022-10-31 00:00:00      android
```

## 6 2022-10-31 00:00:00      iphone