

# Package ‘SouthParkRshiny’

January 20, 2025

**Title** Data and 'Shiny' Application for the Show 'SouthPark'

**Version** 1.0.0

**Description** Ratings, votes, swear words and sentiments are analysed for the show 'SouthPark' through a 'Shiny' application after web scraping from 'IMDB' and the website <[https://southpark.fandom.com/wiki/South\\_Park\\_Archives](https://southpark.fandom.com/wiki/South_Park_Archives)>.

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**URL** <https://github.com/Amalan-ConStat/SouthParkRshiny>,  
<https://amalan-con-stat.shinyapps.io/SouthParkRshiny/>

**BugReports** <https://github.com/Amalan-ConStat/SouthParkRshiny/issues>

**Depends** R (>= 2.10)

**Imports** box, bslib, config (>= 0.3.2), ggplot2, ggpubr, golem (>= 0.4.1), kableExtra, knitr, shiny (>= 1.8.0), shinydashboard

**Suggests** gridlayout

**Additional\_repositories** <https://amalan-constat.github.io/drat/>

**Encoding** UTF-8

**LazyData** true

**LazyDataCompression** xz

**RoxygenNote** 7.3.1

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2024-03-09 11:10:08 UTC

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Basic\_plots

*Basic plots*

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### Description

Average rating and votes summarised in different ways.

### Usage

Basic\_plots

### Format

A list with

- 1 Number of Votes vs Average Rating
- 2 Number of episodes in seasons and their runtime
- 3 Average ratings and votes for each season

### Examples

```
length(Basic_plots)
```

---

N_Grams_plots	<i>N Grams plots</i>
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**Description**

Three and four word phrases common among seasons, main characters and supporting characters are summarised through a plot here, from the script data.

**Usage**

```
N_Grams_plots
```

**Format**

A list with

- 1 Three word phrases over seasons
- 2 Four word phrases over seasons
- 3 Three word phrases over main characters
- 4 Four word phrases over main characters
- 5 Three word phrases over supporting characters
- 6 Four word phrases over supporting characters

**Examples**

```
length(N_Grams_plots)
```

---

Ratings_Votes_plots	<i>Ratings Votes plots</i>
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**Description**

Detailed plots for ratings and votes from the IMDB data.

**Usage**

```
Ratings_Votes_plots
```

**Format**

A list with

- 1 Rating for all seasons and episodes
- 2 Votes for all seasons and episodes

**Examples**

```
length(Ratings_Votes_plots)
```

---

```
run_app
```

*Run the Shiny Application*

---

**Description**

Run the Shiny Application

**Usage**

```
run_app(...)
```

**Arguments**

... list of golem options.

**Value**

used for side effects

---

```
Sentiment_Four_plots
```

*Sentiment Four plots*

---

**Description**

Number of positive and negative words based on bing,nrc,loughran among the main four characters per season are summarised through a plot here, from the script data.

**Usage**

```
Sentiment_Four_plots
```

**Format**

A list with

- 1 positive words from bing over seasons
- 2 negative words from bing over seasons
- 3 positive words from nrc over seasons
- 4 negative words from nrc over seasons
- 5 positive words from loughran over seasons
- 6 negative words from loughran over seasons

### Examples

```
length(Sentiment_Four_plots)
```

---

```
Sentiment_General_plots
```

*Sentiment General plots*

---

### Description

Number of positive and negative words based on bing,nrc,loughran among the seasons are summarised through a plot here, from the script data.

### Usage

```
Sentiment_General_plots
```

### Format

A list with

- 1 positive words from bing over seasons
- 2 negative words from bing over seasons
- 3 positive words from nrc over seasons
- 4 negative words from nrc over seasons
- 5 positive words from loughran over seasons
- 6 negative words from loughran over seasons

### Examples

```
length(Sentiment_General_plots)
```

---

```
Sentiment_Support_plots
```

*Sentiment Support plots*

---

### Description

Number of positive and negative words based on bing,nrc,loughran among the supporting characters per season are summarised through a plot here, from the script data.

### Usage

```
Sentiment_Support_plots
```

**Format**

A list with

- 1 positive words from bing over seasons
- 2 negative words from bing over seasons
- 3 positive words from nrc over seasons
- 4 negative words from nrc over seasons
- 5 positive words from loughran over seasons
- 6 negative words from loughran over seasons

**Examples**

```
length(Sentiment_Support_plots)
```

---

SouthPark_IMDB_Data	<i>SouthPark IMDB Data Data from the IMDB website are extracted for the show. The data consists of season, episode, primarytitle, originaltitle, year, runtime(in minutes), averagerating and number of votes.</i>
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---

**Description**

SouthPark IMDB Data Data from the IMDB website are extracted for the show. The data consists of season, episode, primarytitle, originaltitle, year, runtime(in minutes), averagerating and number of votes.

**Usage**

```
SouthPark_IMDB_Data
```

**Format**

A dataframe with

Season Season Number  
 Episode Episode Number  
 PrimaryTitle primary title of the episode  
 OriginalTitle original title of the episode  
 Year year the episode was aired  
 Runtime runtime in minutes  
 AverageRating average rating out of 10  
 NumberOfVotes number of votes recorded

**Examples**

```
sort(unique(SouthPark_IMDB_Data$Season)) # the seasons of the show
mean(SouthPark_IMDB_Data$AverageRating) # the average rating of the show
sum(SouthPark_IMDB_Data$NumberOfVotes) # sum of the number of votes
```

---

SouthPark\_Script\_Data *SouthPark Script Data*

---

**Description**

Data for the scripts scraped from the website are stored here. The data consists of season, episode, character and line.

**Usage**

```
SouthPark_Script_Data
```

**Format**

A dataframe with

Season	Season Number
Episode	Episode Number
Character	Character Name
Line	The lines the character spoke

**Examples**

```
unique(SouthPark_Script_Data$Season) # the seasons of the show
unique(SouthPark_Script_Data$Character) |> length() # the unique characters in the show
```

---

Southpark\_Summary *SouthPark Summary*

---

**Description**

Overall summary plot from the script data.

**Usage**

```
Southpark_Summary
```

**Format**

A dataframe with

Trivia trivial information labels

Values data for the trivial information

---

Swear\_Words\_plots      *Swear words plots*

---

**Description**

Swear word plots for main and supporting characters per seasons. Total number of words and unique words are summarised through plots.

**Usage**

Swear\_Words\_plots

**Format**

A list with

- 1 Swear words in general
- 2 Swear words for main characters
- 3 Swear words for supporting characters

**Examples**

```
length(Swear_Words_plots)
```



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