

# Package ‘SympluR’

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**Type** Package

**Title** Analyze Healthcare Social Media Data from the 'Symplur' API

**Version** 0.3.0

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**Description** Analyze data from the 'Healthcare Social Graph' via access to the 'Symplur' API.  
The 'Healthcare Social Graph' contains billions of healthcare social media data points. Hundreds of published journal articles have leveraged data from the 'Healthcare Social Graph'.  
About the 'Symplur' API: <<https://api.symplur.com/v1/docs/>>.  
About 'Symplur' research: <<https://www.symplur.com/healthcare-social-media-research/>>.  
Credit to Professor Larry Chu, MD at Stanford University School of Medicine for the idea of the 'SympluR' package.

**URL** <https://github.com/symplur/SympluR>

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.0.1.9000

**Imports** jsonlite, httr, plyr, readr

**NeedsCompilation** no

**Repository** CRAN

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symplurConfig *Symplur API - Config*

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### Description

Symplur API - Config

### Usage

symplurConfig()

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symplurContentRetweets  
*Symplur API - Content/Retweets*

---

### Description

API endpoint documentation: [https://api.symplur.com/v1/docs#/Twitter\\_Analytics:\\_Content/get\\_twitter\\_analytics\\_content\\_1](https://api.symplur.com/v1/docs#/Twitter_Analytics:_Content/get_twitter_analytics_content_1)

### Usage

```
symplurContentRetweets(start = "09/01/2017", end = "09/08/2017",
  databases = "#LCSMDemoData", limit = 100)
```

### Arguments

start	Start time for period analyzed, read above API docs for more info.
end	End time for period analyzed
databases	The database(s) analyzed. Comma separate string if using more than one database.
limit	Maximum number of retweets to return. Must be positive integer. Default is 10. Max is 500.

### Examples

```
LCSMDemoDataContentRetweets <- symplurContentRetweets(
  "09/01/2017",
  "09/08/2017",
  databases = "#LCSMDemoData",
  50)
```

---

symplurContentRetweetsTable  
*Symplur API - Content/Retweets Table*

---

### Description

Creates a dataframe from looping through queries.

### Usage

```
symplurContentRetweetsTable(query = data.frame(database = character(), start =
  character(), end = character()))
```

### Arguments

query                    A dataframe with columns: database, start and end.

### Details

Example query dataframe:

database	start	end
#BCSM	01/01/2010	01/01/2018
#LCSM	01/01/2010	01/01/2018
#BTSM	01/01/2010	01/01/2018

### Examples

```
require(readr)
datasets <- read_csv(system.file("extdata", "datasets.csv", package = "SympluR", mustWork = TRUE))
LCSMDemoDataContentRetweetsTable <- symplurContentRetweetsTable(datasets)
```

---

symplurContentWords    *Symplur API - Content/Words*

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### Description

API endpoint documentation: [https://api.symplur.com/v1/docs#/Twitter\\_Analytics:\\_Content/get\\_twitter\\_analytics\\_content\\_v](https://api.symplur.com/v1/docs#/Twitter_Analytics:_Content/get_twitter_analytics_content_v)

### Usage

```
symplurContentWords(start = "09/01/2017", end = "09/08/2017",
  databases = "#LCSMDemoData", limit = 100)
```

**Arguments**

start	Start time for period analyzed, read above API docs for more info.
end	End time for period analyzed
databases	The database(s) analyzed. Comma separate string if using more than one database.
limit	Maximum number of words to return. Integer.

**Examples**

```
LCSMDemoDataContentWords <- symplurContentWords(
  "09/01/2017",
  "09/08/2017",
  databases = "#LCSMDemoData",
  50)
```

---

symplurContentWordsTable

*Symplur API - Content/Words Table*

---

**Description**

Creates a dataframe from looping through queries.

**Usage**

```
symplurContentWordsTable(query = data.frame(database = character(), start =
  character(), end = character()))
```

**Arguments**

query	A dataframe with columns: database, start and end.
-------	--

**Details**

Example query dataframe:

database	start	end
#BCSM	01/01/2010	01/01/2018
#LCSM	01/01/2010	01/01/2018
#BTSM	01/01/2010	01/01/2018

**Examples**

```
require(readr)
datasets <- read_csv(system.file("extdata", "datasets.csv", package = "SympluR", mustWork = TRUE))
LCSMDemoDataContentWordsTable <- symplurContentWordsTable(datasets)
```

---

 symplurPeopleInfluencers

*Symplur API - People/Influencers*


---

### Description

API endpoint documentation: [https://api.symplur.com/v1/docs#/Twitter\\_Analytics:\\_People/get\\_twitter\\_analytics\\_people\\_in](https://api.symplur.com/v1/docs#/Twitter_Analytics:_People/get_twitter_analytics_people_in)

### Usage

```
symplurPeopleInfluencers(start = "09/01/2017", end = "09/08/2017",
  databases = "#LCSMDemoData", limit = 100, metric = "mentions")
```

### Arguments

start	Start time for period analyzed, read above API docs for more info.
end	End time for period analyzed
databases	The database(s) analyzed. Comma separate string if using more than one database.
limit	Maximum number of retweets to return. Must be positive integer. Default is 10. Max is 500.
metric	Comma-separated list of one or more metrics to calculate. Results will be sorted by the first metric in the list. Supported metrics are "hsg_score", "mentions", "retweets", "tweets", "impressions", and "replies".

### Examples

```
LCSMDemoDataPeopleInfluencers <- symplurPeopleInfluencers(
  "09/01/2017",
  "09/08/2017",
  databases = "#LCSMDemoData",
  50)
```

---

 symplurPeopleInfluencersTable

*Symplur API - People/Influencers Table*


---

### Description

Creates a dataframe from looping through queries.

### Usage

```
symplurPeopleInfluencersTable(query = data.frame(database = character(), start
  = character(), end = character()))
```

**Arguments**

query                    A dataframe with columns: database, start and end.

**Details**

Example query dataframe:

database	start	end
#BCSM	01/01/2010	01/01/2018
#LCSM	01/01/2010	01/01/2018
#BTSM	01/01/2010	01/01/2018

**Examples**

```
require(readr)
datasets <- read_csv(system.file("extdata", "datasets.csv", package = "SympluR", mustWork = TRUE))
LCSMDemoDataPeopleInfluencersTable <- symplurPeopleInfluencersTable(datasets)
```

---

symplurToken                    *Symplur API - Token*

---

**Description**

Symplur API - Token

**Usage**

```
symplurToken()
```

**Examples**

```
symplurToken()
```

---

symplurTweetsActivity        *Symplur API - Tweets/Activity*

---

**Description**

API endpoint documentation: [https://api.symplur.com/v1/docs#/Twitter\\_Analytics:\\_Tweets/get\\_twitter\\_analytics\\_tweets\\_ac](https://api.symplur.com/v1/docs#/Twitter_Analytics:_Tweets/get_twitter_analytics_tweets_ac)

**Usage**

```
symplurTweetsActivity(start = "09/01/2017", end = "09/08/2017",
  databases = "#LCSMDemoData", interval = "days")
```

**Arguments**

start            Start time for period analyzed, read above API docs for more info.  
 end             End time for period analyzed  
 databases      The database(s) analyzed. Comma separate string if using more than one database.  
 interval        Unit of time to use for periods. Supported values are "minutes", "hours", "days",  
 "weeks", "months", and "years". You must choose an interval that results in 500  
 periods or less, based on your selected date range. If omitted, the system will  
 try to guess an appropriate interval.

**Examples**

```
LCSMDemoDataTweetsActivity <- symplurTweetsActivity(
  "09/01/2017",
  "09/08/2017",
  databases = "#LCSMDemoData",
  "days")
```

---

symplurTweetsActivityTable  
*Symplur API - Tweets/Activity Table*

---

**Description**

Creates a dataframe from looping through queries.

**Usage**

```
symplurTweetsActivityTable(query = data.frame(database = character(), start =
  character(), end = character()))
```

**Arguments**

query            A dataframe with columns: database, start and end.

**Details**

Example query dataframe:

database	start	end
#BCSM	01/01/2010	01/01/2018
#LCSM	01/01/2010	01/01/2018
#BTSM	01/01/2010	01/01/2018

**Examples**

```
require(readr)
datasets <- read_csv(system.file("extdata", "datasets.csv", package = "SympluR", mustWork = TRUE))
```

```
LCSMDemoDataTweetsActivityTable <- symplurTweetsActivityTable(datasets)
```

---

```
symplurTweetsSummary Symplur API - Tweets/Summary
```

---

### Description

API endpoint documentation: [https://api.symplur.com/v1/docs#/Twitter\\_Analytics:\\_Tweets/get\\_twitter\\_analytics\\_tweets\\_su](https://api.symplur.com/v1/docs#/Twitter_Analytics:_Tweets/get_twitter_analytics_tweets_su)

### Usage

```
symplurTweetsSummary(start = "09/01/2017", end = "09/08/2017",
  databases = "#LCSMDemoData")
```

### Arguments

start	Start time for period analyzed, read above API docs for more info.
end	End time for period analyzed
databases	The database(s) analyzed. Comma separate string if using more than one database.

### Examples

```
LCSMDemoDataTweetsSummary <- symplurTweetsSummary(
  "09/01/2017",
  "09/08/2017",
  databases = "#LCSMDemoData")
```

---

```
symplurTweetsSummaryTable
Symplur API - Tweets/Summary Table
```

---

### Description

Creates a dataframe from looping through queries.

### Usage

```
symplurTweetsSummaryTable(query = data.frame(database = character(), start =
  character(), end = character()))
```

### Arguments

query	A dataframe with columns: database, start and end.
-------	--

### Details

Example query dataframe:



database	start	end
#BCSM	01/01/2010	01/01/2018
#LCSM	01/01/2010	01/01/2018
#BTSM	01/01/2010	01/01/2018

### **Examples**

```
require(readr)
datasets <- read_csv(system.file("extdata", "datasets.csv", package = "SympIuR", mustWork = TRUE))
LCSMDemoDataTweetsSummaryTable <- sympIurTweetsSummaryTable(datasets)
```

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