

Introduction for Data Analysis

2

Social Media



Analyzing social media is the best way to flex your data analysis muscles

Introduction for Data Analysis

2

Social Media

Analyzing social media is the best way to flex your data analysis muscles



Isis_tweet_network_analysis

Rmarkdown script using data from [How ISIS Uses Twitter](#) · 28,415 views · 5y ago · 🏷 internet, crime

<https://www.kaggle.com/ggospodinov/tweet-analysis2>

Introduction for Data Analysis

2

Social Media



Isis_tweet_network_analysis

Rmarkdown script using data from [How ISIS Uses Twitter](#) · 28,415 views · 5y ago · 📁 internet, crime

Twitter api provides data about followers, following, tweets, likes, retweets, and so on.

These data can establish social network analysis which can calculate users and tweets' impacts.

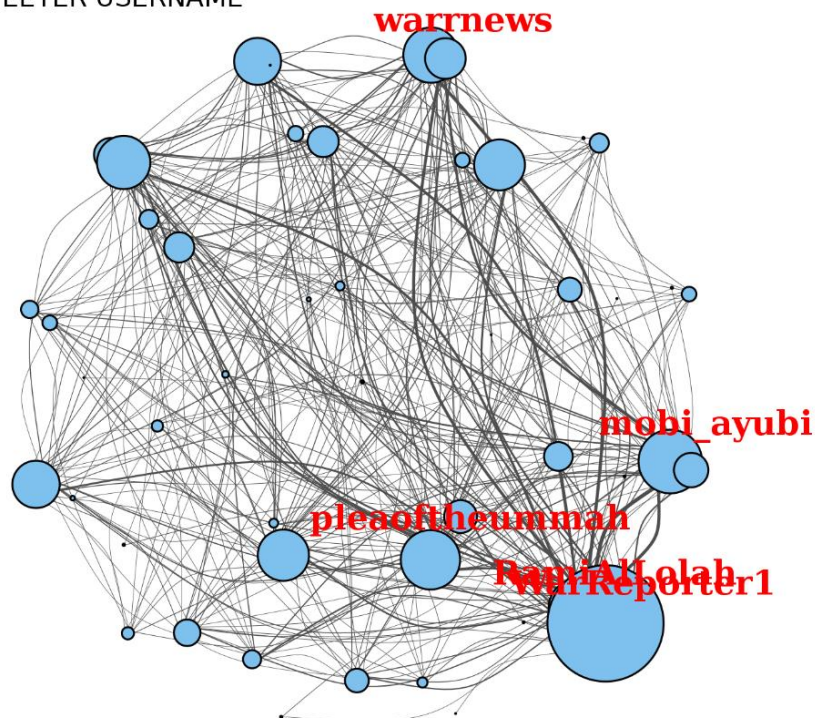
Introduction for Data Analysis

2

Social Media

ISIS TWEET NETWORK WITH 75.0% FILTRATION

■ TWEETER USERNAME



Identify who are the major players in the pro-ISIS twitter network.

2

Social Media

**Analyzing social media is the best way to
flex your data analysis muscles**

Because it is a challenge!

1. Accessing data
2. Wrangling with data

2

Social Media

If you want to analyze Twitter

Apply Twitter APIs NOW!!!

Get started with Twitter APIs and tools

Apply for access

Apply for a developer account

Restricted used cases →

Introduction for Data Analysis

2

Social Media



Professional



Hobbyist



Academic



Academic
researcher



Teacher



Student



Something else
(But related to
academics)

Academic Research application

Approved Academic Research applications gain access to higher levels of data than our standard application, but also require additional information that is not required for standard approval.

[Get started](#)

The Impacts of Computer Science

2

Social Media



Create a Project to use Early Access v2 endpoints.

+ Create Project

Introduction for Data Analysis

2

Social Media

API Key [i](#)

ZGLO2grRrBs3J

Copy [+](#)

API Key Secret [i](#)

GZX53oVglaFokywz3i

Copy [+](#)

Bearer Token [i](#)

AAAAAAAAAAAAAAAAAAAAAAAEcvTwEAAAAAzBqXsx%2BaxiiiD3WOWwO
D%2FiFuhR
dAX1KNOWm

8

Copy [+](#)

**Copy Keys or Token into R or Python's
request codes.**

Introduction for Data Analysis

2

Social Media

R:

```
1 bearer_token <- Sys.getenv("$BEARER_TOKEN")  
2 headers <- c(`Authorization` = sprintf('Bearer %s', bearer_token))
```



Python:

Copy your Bearer Token (obtained in step two) and set in your environment variable by running:

```
export 'BEARER_TOKEN'='<your_bearer_token>' in your terminal.
```

Run the `recent_search.py` file by running `python3 recent_search.py`

**Copy Keys or Token into R or Python's
request codes.**

Introduction for Data Analysis

2

Social Media

Facebook?



Since the Cambridge Analytica scandal, Facebook has cut many access channels of its APIs

The Impacts of Computer Science

2

Social Media

Facebook merged Crowdtangle to allow limited users to access public data.

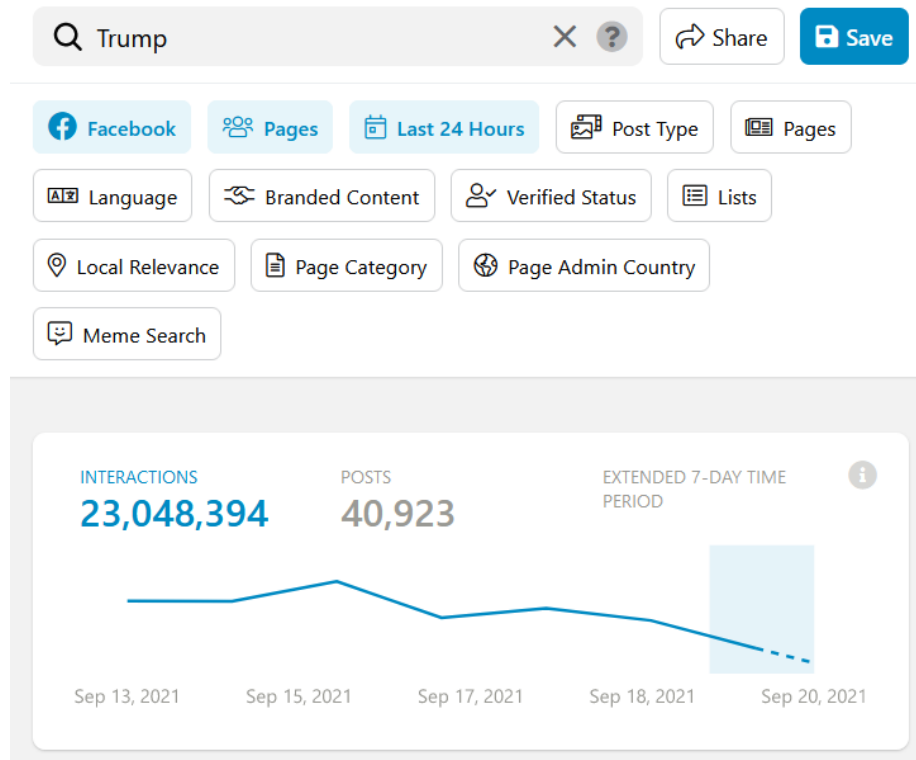


Introduction for Data Analysis

2

Social Media

Crowdtangle's data can be used to analyze Facebook's public groups, misinformation, commence ads, politics, and so on



Introduction for Data Analysis

2

Social Media

If you want to analyze Facebook data, I can open a Crowdtangle account for you.

User Management

+ Invite People

User(s) notified by email when a user requests access this dashboard

中佩卡

x

x

v

NAME



EMAIL ADDRESS

USER TYPE

ROLE

VISITED



中佩卡

torrent@rsprc.ntu.edu.tw

User

Dash
Member

Yes

x

Introduction for Data Analysis

2

Social Media

To gather Dcard data is very easy



Introduction for Data Analysis

2

Social Media

To gather Dcard data is very easy

```
nccu <- jsonlite::fromJSON("https://www.dcard.tw/service/api/v2/forums/nccu/posts?limit=100")
```

Dcard doesn't set any application processes to access api