Twitter API and Python Package Tweepy

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Twitter API

Gathering Tweets:
- See what is trending
- See who is responding
- Discover frequencies

Two widely used Python packages
- Twitter
- Tweepy

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Using Tweepy

Gaining in user base

May be installed through conda

May require Python 3.5

Try installing using instructions in Toolbox

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Using Tweepy

Do not have to have Twitter account

You may use tweets already downloaded

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Twitter and Twitter API

Microblogging service

280-character messages

Sign up for an account at Twitter.com

Twitter page can show you trends
- Tweets of users
- Tweets addressed to you
- Allow you to compose a tweet

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Twitter Statistics

Over 600 million signed up

Over 328 million active users each month

Social networking site

"Interest" network

User accounts
- People
- Companies
- Other entities

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Tweets Received

Has metadata fields
- User who sent it
- Whether it was retweeted
- How many times retweeted
- Entities and places

Twitter is changing what is in the 280 characters
- Moving @mentions and URLs to metadata

Timeline used to organize

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Tweets as Streams

Streams

- Collections of tweets
- Firehose of all tweets—high volumes accessed by paid permission
- Public APIs (us)—sample from 1% of tweets
- Collect tweets on particular topic or user—may get many of them

Search API

- Search for keywords over a time frame

Streaming API

- Real-time access to tweets—no history

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Open Authorization

Allows third-party developer

Allows end user to access server resources

Don't have to give their passwords

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