Twitch Streaming Dashboard

Metis Engineering Project

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Impact

As of February 2020, Twitch has reported 3 million distinct streamers.

With 41.5 million users

Methodology

Retrieveing

Python was used to connect to Twitch's Helix API

Crontab was used to automate the .py script pulling information every hour

Storing

The Data was stored into several different collections inside a Mongo Data Base

Displaying

Plotly was used to create visualizations

Streamlit was used to deploy the gathered information

Twitch API

Cannot possibly retrieve all data

Three step verifications

- Client ID
- Client Secret
- Authentification Token

```
client_id = 'tn9oskedgjzumaz7seved6dl8z642j'
client_secret = '5bbdqqsykhqu6t4fhroopms0hcvy6w'

access_code = requests.post('https://id.twitch.tv/oauth2/token?client_id='+client_id+\
                            '&client_secret='+client_secret+\
                            '&grant_type=client_credentials')

access_token = access_code.json()['access_token']


headers = {
    'Client-ID' : client_id,
    'Authorization' : 'Bearer '+access_token
}

top_streams_pull = requests.get('https://api.twitch.tv/helix/streams?first=100', headers=headers)
```

Get Streams

Get Games

Mongo DataBase

streams?first=100

- **Shows top 100 streams**

Games/top?first=100

- **Top 100 game IDs**
- **Use these IDs to get streams**

Top Streams

Top Games

Continuous Streams

Continuous Games

Crontab

```
*     *     *   *    *        command to be executed
-     -     -   -    -
|     |     |   |    |
|     |     |   |    +----- day of week (0 - 6) (Sunday=0)
|     |     |   +------- month (1 - 12)
|     |     +--------- day of        month (1 - 31)
|     +------------ hour (0 - 23)
+-------------- min (0 - 59)
```

Crontab seemed easy enough.

FALSE

Display