

# **Twitch Streaming Dashboard**



**Metis Engineering Project**

**7/2021**



# Impact



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

**With 41.5 million users**

# Methodology

Retrieveing

Storing

Displaying



Python was used to connect to Twitch's Helix API



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

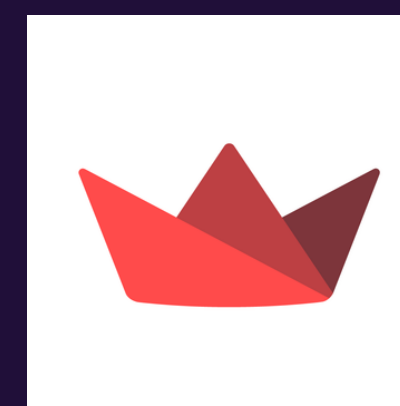


mongo DB

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



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
- Authentication Token

Get Streams

Get Games

```
client_id = 'tn9oskedgjzumaz7seved6dl8z642j'
client_secret = '5bbdqsykhqu6t4fhroopms0hcvy6w'

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)
```

# 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

Crontab seemed easy enough.

```
* * * * *      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)
```

**FALSE**

# Display

