CS 352, Project Proposal
Twitch Stream Metadata Website

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Project

Twitch.tv is one of the most popular sites on the web. It is a free platform that allows video game players to share their experiences with viewers. Hundreds of thousands of people visit the site each day. While the site itself is very well designed, there is no way to easily get metadata or statistics about an individual stream. For example, a streamer might wanted to know how well his stream has done over a few months, or even compare those statistics to other Twitch streams. This data is accessible through the Twitch API, and could be displayed using intuitive graphs and interactive charts.

1 Screens

1.1 Home Screen

The home screen would display a random high traffic stream's metadata. Data included would be the name of the stream, current viewers, and popular games. Examples of other data include:

- Unique visitors per day

- Uptime of stream on average

- Number of subscribers over time

- Number of followers over time

- A graph of viewers throughout the length of the stream

- Views per game (if the streamer switched games)

Useful or interesting information from the graphs could be extracted. For example, when is a stream most popular? Which game draws the most viewers?

1.2 Tabs

While a homescreen could contain important information, each screen could have tabs that contain other extraneous information. An example subtab could be a zoomed in version of a graph on the home page.

1.3 Search

There would need to be a search screen allowing a user to find the data about a particular stream. This would be a simple search box, either as a seperate screen, or build into the navigation bar at the top of the website.

2 Challenges

While a site like this would be very fun and interesting, there are a number of usability and design challenges that would have to be examined. While data visualization is fun, how much data should be shown on one screen? Too much data would overwhelm the user, while too little would cause the user problems clicking through tabs.