

Youtube Fake View Script

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Preface: How Youtube View Counts

Refer: [Quora-How does YouTube calculate its views?](#)

- Youtube has distributed log servers, the view count record is stored in one centralized server.
- When one Youtube view count goes over 300, the views will be verified (usually, it get stucked for few hours or 1 day). More, when the number 300 was decided by the designers, the programmer made the elementary careless mistake of using the age old ViewCount ≤ 300 instead of the ViewCount < 300 in their logic
- If a video is viewed in its entirety by someone who clicked on it, it is counted as one view.
- YouTube also considers views from the same IP in breaks of 6 to 8 hours. So one person viewing the same video repeatedly would only generate 3 to 5 views a day, after views cross 300.

Analysis Youtube Player Mechanism

1. HTML

In every Youtube page, it loads blank HTML for the player at first.

```
1 <div id="player-api" class="player-width player-height off-screen-target player-api"
  tabIndex="-1">
2 </div>
```

2. Youtube ytplayer Javascript Code

Then, the Javascript code will load the Youtube player (Adobe Flash Player).

```
1 <script>
2 var ytplayer = ytplayer || {};
3 ytplayer.config = {"min_version":"8.0.0",
4                   "url":"https://s.ytimg.com/yts/swfbin/player-vflenMUmo/watch_as3.swf"
5 ...
6 </script>
```

3. Loads Adobe Flash (SWF Player)

Here is how it looks like after the video is loaded. (The `<embed>` element is supported in all major browsers.)

```
1 <embed name="movie_player" id="movie_player" width="100%" height="100%" tabindex="0"
  type="application/x-shockwave-flash"
  src="https://s.ytimg.com/yts/swfbin/player-vflenMUmo/watch_as3.swf"
  allowscriptaccess="always" bgcolor="#000000" allowfullscreen="true" ...>
```

Script

In ordering to generate Youtube views, I've tried several approaches including using [PhantomJS](#) and [SeleniumHQ](#).

1. PhamtonJS

Under *phantomjs/* folder, execute

```
1 ./run.sh
```

to run.

phantomjs/fake_click_no_js.js: opens a Youtube page without executing its javascript.

phantomjs/fake_click.js: opens a Youtube page then executes its javascript. **However, by looking to its screenshot, we can learn that phamtonjs is not supporting Adobe Flash Player.** Refer to: [phantomjs doesn't support flash player](#)

2. Selenium HQ

fake_click_selenium.py

Code

All the code mentioned in this document is on this [GitHub Repo](#).