# ESPORTS TOURNAMENT SCRAPER

Blair Martin

Esports is growing

◦ Goal initially to improve returns for twitch by investing in tournaments.

◦ Twitch API only updates in real-time not useable.

◦ Check if player involvement improved after tournaments.
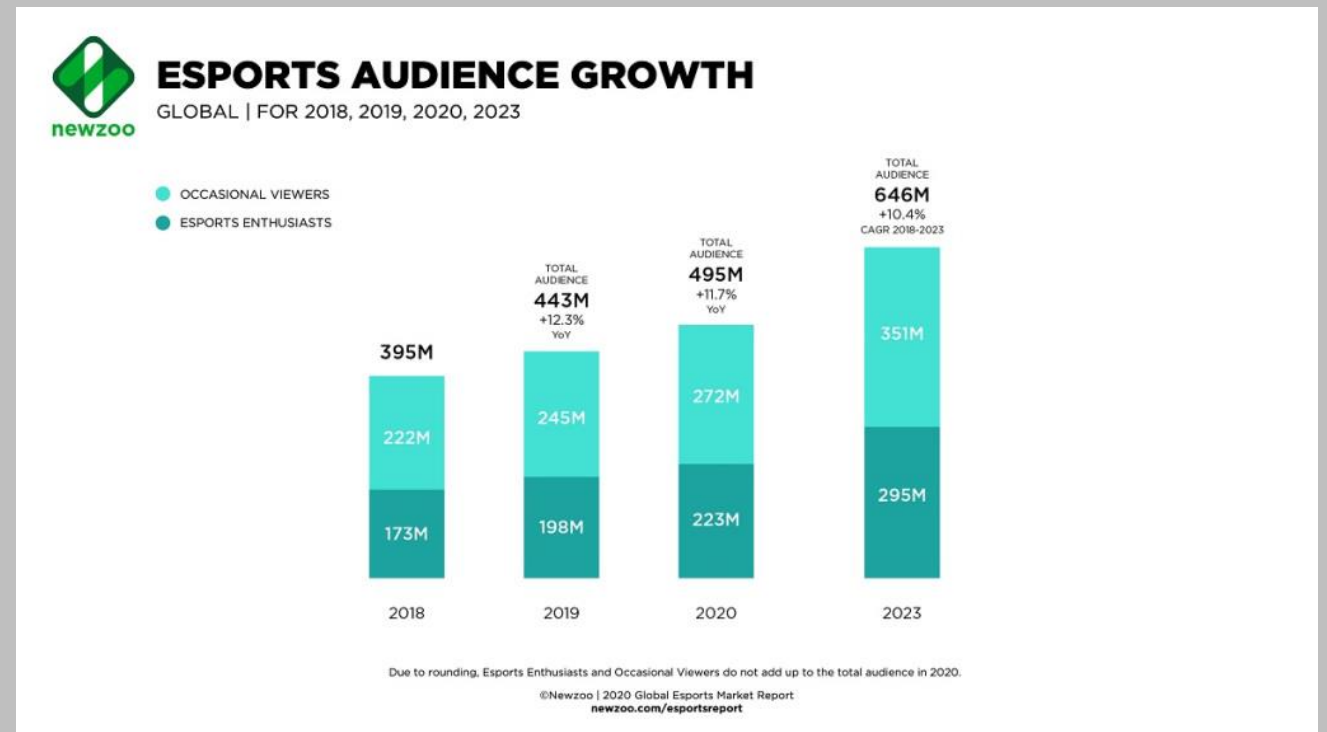
Getting the data

○ https://www.esportsguide.com/events/csgo

https://activeplayer.io

```
tournament_data_scraper = Scraper('https://www.esportsguide.com/events/csgo')

next_page_links = ("xpath", '//*[@id="filter_games"]/li/a', "get_attribute", "('href')")

tournament_links = ("class_name", 'single-event-card__tourn-link', "get_attribute", "('href')")

tournament_names = ('xpath' , '//h1[@class="tournament-block__title"]', "text", None)

tournament_field_titles = ("xpath", '//p[@class="tournament-block__details-title"]', "text", None)

tournament_field_values = ("xpath", '//span[@class="tournament-block__details-info"]', "text", None)

game_name = ("xpath", '//li[1]/span[@class="title"]' , "text", None)

tournament_data_scraper.scrape(next_page_links, 'tournaments', tournament_links, True, 1, game_name, tournament_names, tournament_field_titles, False, tournament_field_val
```
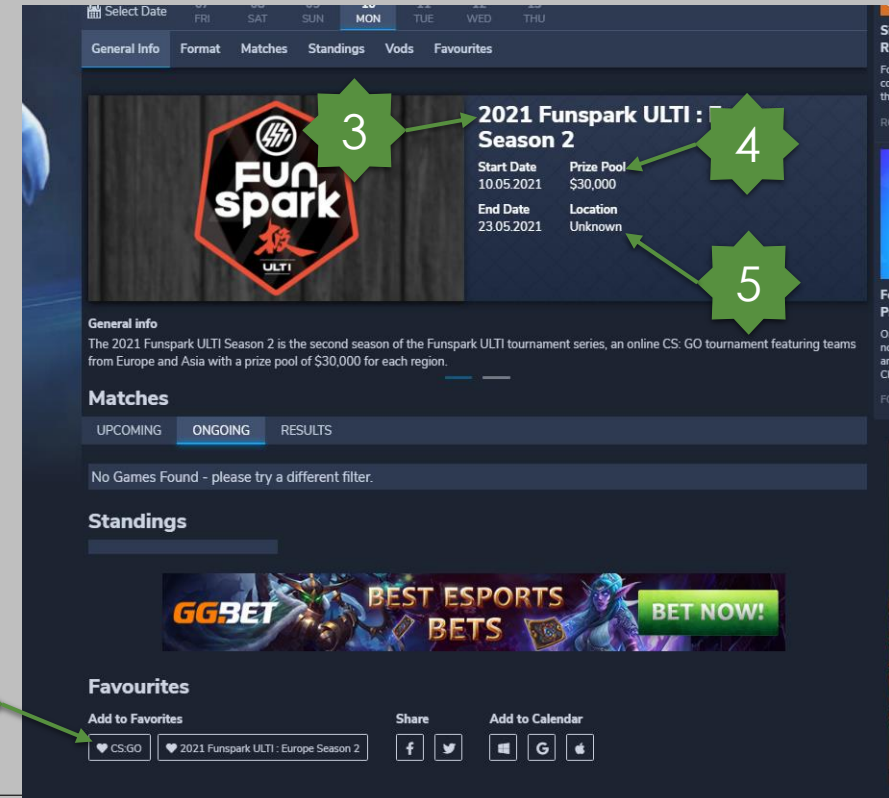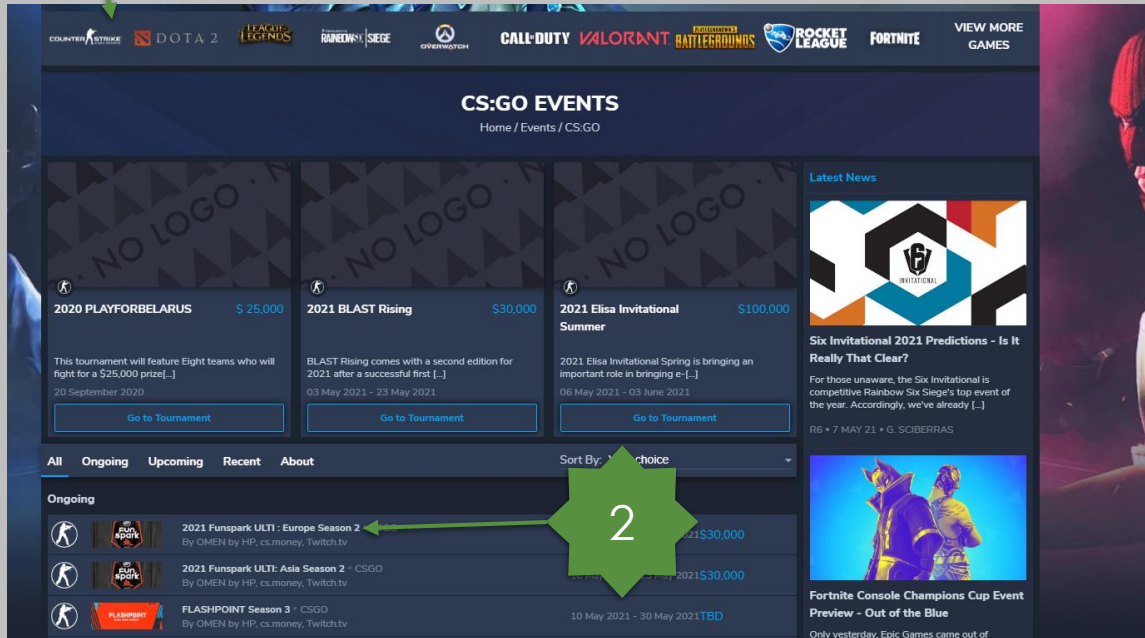
Cleaning the data

◦ Data was initially outputted to .json.

◦ Data then cleaned with pandas. Tables merge and pivoted.

◦ Pandas frames outputted to Amazon RDS MySQL.

Further Steps:

◦ Create a GUI to enable a user friendly scraping experience.

◦ Use AI/Machine learning techniques to build an automated scraper.

◦ Create automated twitch scraper using twitch API to collect realtime data.

Data to Analyse

Tournament_Data

◦ Data added to two SQL tables Player_Data 428 entries and Tournament_Data 1947 entries.

Sum prize pools based on month and compare with the change in players numbers during this time.

◦ Player_Data

index	Game	Tournament Name	Location	Start Date	End Date	Prize Pool
0	CS:GO	2021 Elisa Invitational Summer	Unknown	06.05.2021	03.06.2021	$100,000
1	CS:GO	2021 ESEA Season 37 Premier Division - North A...	Unknown	04.05.2021	27.06.2021	$50,000
2	CS:GO	2021 ESEA Season 37 Premier Division - Australia	Australia	04.05.2021	27.06.2021	$11,000
3	CS:GO	2021 ESEA Season 37 Premier Division - Europe	Unknown	04.05.2021	27.06.2021	$50,000
4	CS:GO	2021 BLAST Rising	Unknown	03.05.2021	23.05.2021	$30,000
5	CS:GO	2021 BIOGAMING Spring Open	Unknown	03.05.2021	09.05.2021	$1,200
6	CS:GO	2021 EPIC CIS League Spring	Unknown	02.05.2021	30.05.2021	$40,000
7	CS:GO	2021 Dreamhack Masters Spring	Unknown	29.04.2021	09.05.2021	$250,000
8	CS:GO	CBCS Elite League Season 1	Brazil	22.04.2021	16.05.2021	$17,804
9	CS:GO	2021 SAZKA eLEAGUE Spring	Czech Republic	18.04.2021	20.06.2021	$9.100
10	CS:GO	LOOTBET League Season 9	Unknown	17.04.2021	16.05.2021	$50,000
11	CS:GO	REPUBLEAGUE Tipos Season 1	Unknown	14.04.2021	13.06.2021	$71,000
12	CS:GO	2021 Kayzr League Spring	Unknown	07.04.2021	29.05.2021	$4,760.32
13	CS:GO	2021 Master League Portugal Season 7	Portugal	01.04.2021	Not ended	$17,737
14	CS:GO	2021 ESL Turkey Championship Winter	Turkey	22.03.2021	16.05.2021	$3,800
15	CS:GO	COOL League Season 9	Czech Republic	20.03.2021	29.05.2021	$11,229
16	CS:GO	Snow Sweet Snow #3	Unknown	15.03.2021	Not ended	$100,000
17	CS:GO	2021 ESL Mistrzostwa Polski Spring	Poland	09.03.2021	16.05.2021	$12,976
18	CS:GO	99Liga Season 17 Division 1	Germany	08.03.2021	12.06.2021	$31,316
19	CS:GO	2021 LPL Pro League Season 7	Unknown	02.03.2021	11.05.2021	$10,000
20	CS:GO	2021 ESL Meisterschaft Spring	Germany	01.03.2021	Not ended	$48,716
21	CS:GO	2021 Svenska Elitserien Spring Season	Sweden	23.02.2021	23.05.2021	TBD
22	CS:GO	ESL ANZ Champs Season 12	Australia	13.02.2021	15.05.2021	$15,518
23	CS:GO	FireNation Playoffs Season 1	Unknown	27.01.2021	Not ended	$10,000
24	CS:GO	2020 PLAYFORBELARUS	Unknown	20.09.2020	Not ended	$ 25,000

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index	Game	Month	Avg. Players	Gain	% Gain	Peak Players
0	Fornite	April 30, 2021	275,011,465	6,996,998	3%	33,014,465
1	Fornite	March 30, 2021	268,014,467	4,793,038	2%	30,144,709
2	Fornite	February 20, 2021	263,221,429	3,462,589	1%	28,544,163
3	Fornite	January 30, 2021	259,758,840	-4,556,986	-2%	25,115,476
4	Fornite	December 30, 2020	264,315,826	-6,739,715	-2%	22,715,791
5	Fornite	November 30, 2020	271,055,541	6,171,377	2%	25,491,419
6	Fornite	October 30, 2020	264,884,164	-2,647,738	-1%	23,244,208
7	Fornite	September 30, 2020	267,531,902	-25,334,353	-9%	10,701,276
8	Fornite	August 30, 2020	292,866,255	11,290,630	4%	15,619,534
9	Fornite	July 30, 2020	281,575,625	16,346,759	6%	11,263,025
10	Fornite	June 30, 2020	265,228,866	-16,459,434	-6%	11,493,251
11	Fornite	May 30, 2020	281,688,300	24,475,800	10%	11,267,532
12	Fornite	May 30, 2020	257,212,500	-13,537,500	-5%	11,145,875
13	Fornite	April 30, 2020	270,750,000	-14,250,000	-5%	11,732,500
14	Fornite	March 30, 2020	285,000,000	8,520,000	3%	14,250,000
15	Fornite	February 20, 2020	276,480,000	16,560,000	6%	11,980,800
16	Fornite	January 30, 2020	259,920,000	38,304,000	17%	10,396,800
17	Fornite	December 30, 2019	221,616,000	13,198,464	6%	9,603,360
18	Fornite	November 30, 2019	208,417,536	44,741,808	27%	9,031,427
19	Fornite	October 30, 2019	163,675,728	-10,109,383	-6%	8,183,786
20	Fornite	September 30, 2019	173,785,111	8,689,256	5%	6,951,404
21	Fornite	August 30, 2019	165,095,856	18,004,138	12%	7,154,154
22	Fornite	July 30, 2019	147,091,718	-46,365,868	-24%	6,373,974
23	Fornite	June 30, 2019	193,457,586	-19,345,759	-9%	9,672,879