

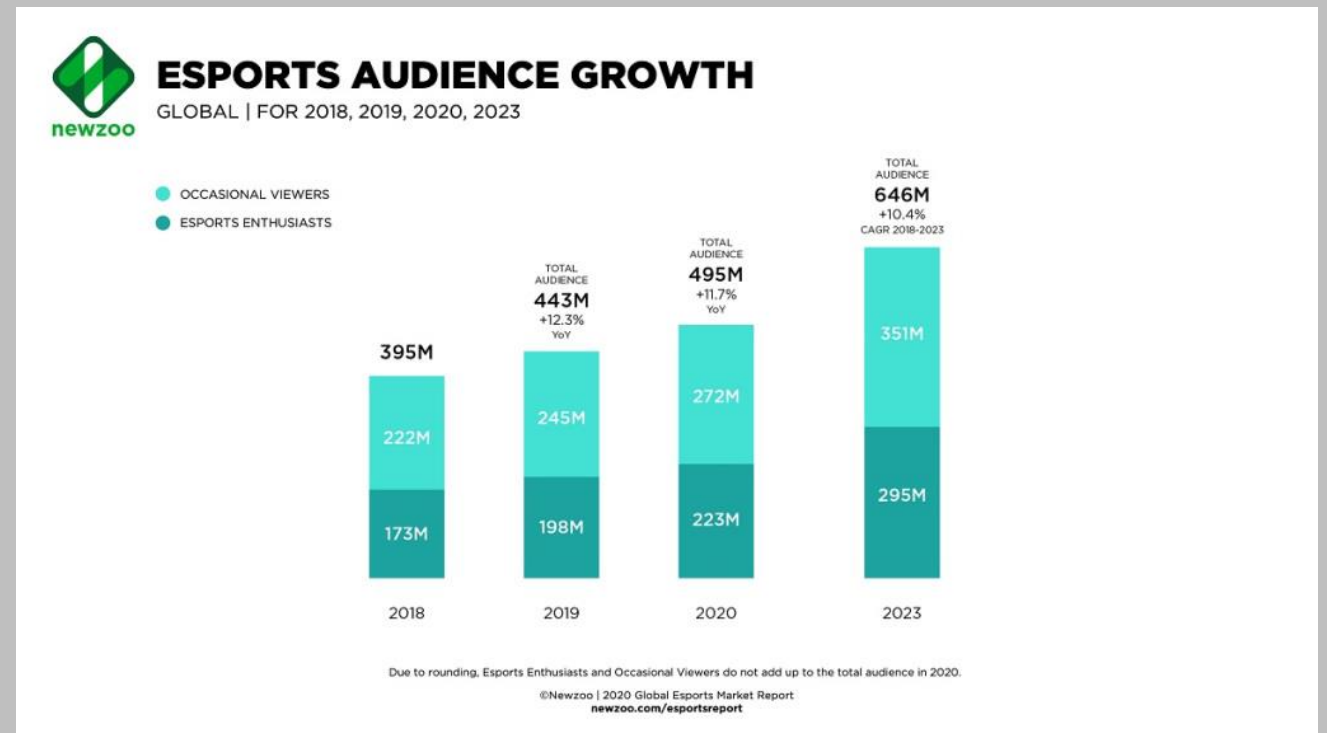
A wide-angle shot of a large esports arena, likely the Athens Olympic Stadium, filled with a massive crowd of spectators. The arena is dimly lit, with bright spotlights focused on the stage area. A large screen at the front of the arena displays a League of Legends match. The crowd is seen from behind, with many people holding up phones to capture the event. The atmosphere is electric, with blue and red lighting visible in the foreground.

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

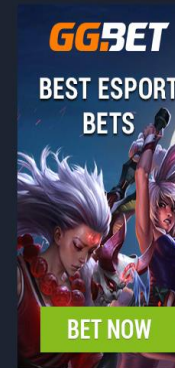
Ongoing				
	2021 Funspark ULTI: Europe Season 2	CSGO	10 May 2021 - 23 May 2021	\$30,000
	2021 Funspark ULTI: Asia Season 2	CSGO	10 May 2021 - 23 May 2021	\$30,000
	FLASHPOINT Season 3	CSGO	10 May 2021 - 30 May 2021	TBD
	Spring Sweet Spring #2	CSGO	10 May 2021 - 02 June 2021	\$100,000
	2021 ESEA Season 37 Premier Division - North America	CSGO	06 May 2021 - 03 June 2021	\$100,000
	2021 ESEA Season 37 Premier Division - Australia	CSGO	04 May 2021 - 27 June 2021	\$11,000
	2021 ESEA Season 37 Premier Division - Europe	CSGO	04 May 2021 - 27 June 2021	\$50,000
	2021 BLAST Rising	CSGO	03 May 2021 - 23 May 2021	\$30,000
	2021 EPIC CIS League Spring	CSGO	02 May 2021 - 30 May 2021	\$40,000
	CBCS Elite League Season 1	CSGO	22 April 2021 - 16 May 2021	\$17,804
	2021 SAZKA iLEAGUE Spring	CSGO	18 April 2021 - 20 June 2021	\$9,100
	LOOTBET League Season 9	CSGO	17 April 2021 - 16 May 2021	\$50,000
	REPUBLiGUE Tipos Season 1	CSGO	14 April 2021 - 13 June 2021	\$71,000
	2021 Kayzr League Spring	CSGO	07 April 2021 - 29 May 2021	\$4,760.32
	2021 Master League Portugal Season 7	CSGO	01 April 2021	\$17,737
	2021 ESL Turkey Championship Winter	CSGO	22 March 2021 - 16 May 2021	\$3,800
	COOL League Season 9	CSGO		



Fortnite Console Champions Cup Preview - Out of the Blue

Only yesterday, Epic Games came out of nowhere with an immediate event announcement. Accordingly, the Console Champions Cup has [...]

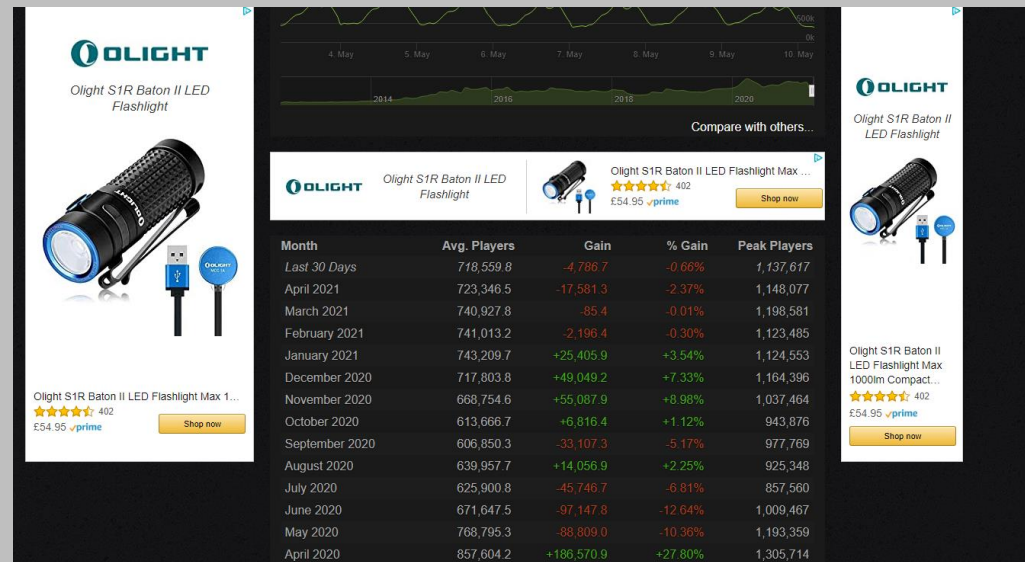
FORTNITE • 7 MAY 21 • G. SCIBERRAS



Top Betting Sites



www.steamcharts.com



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)

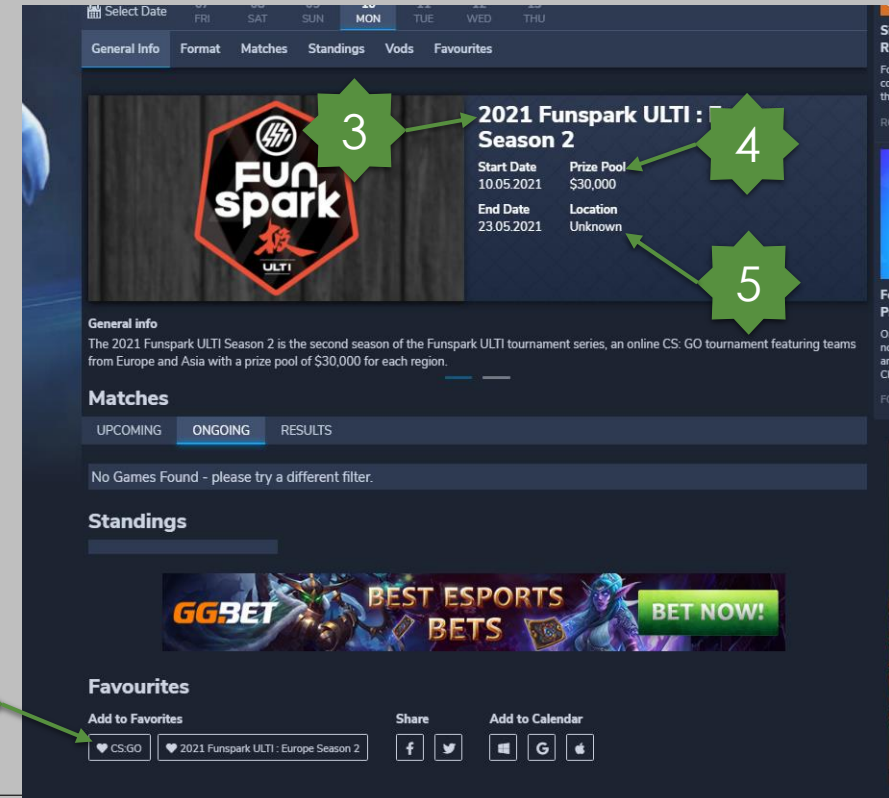
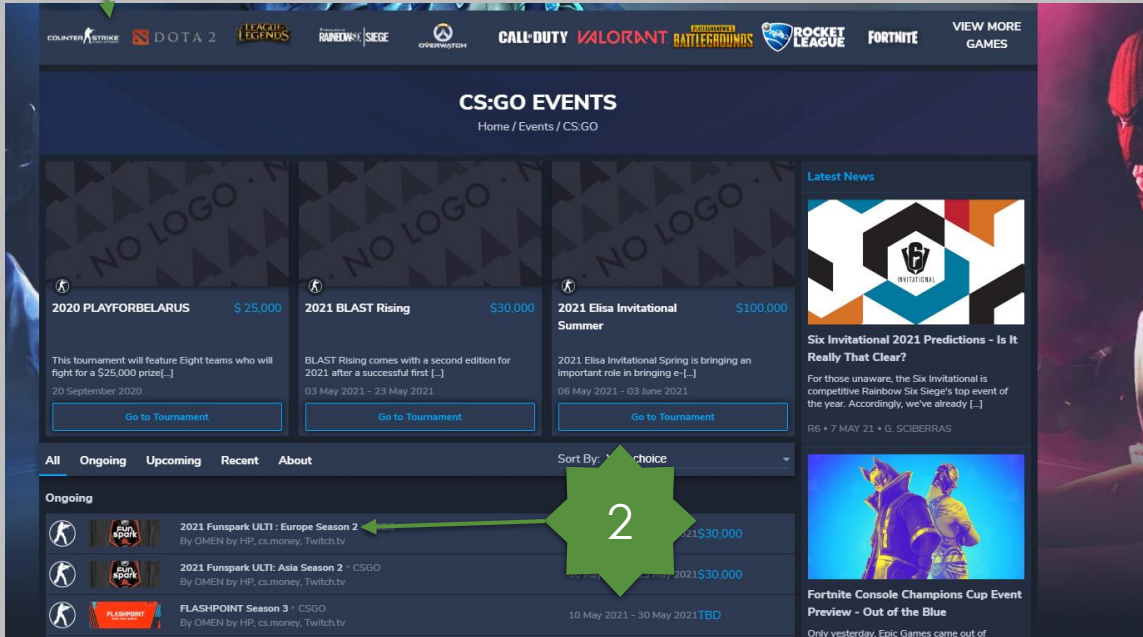
tournament_field_titles = ("xpath", '//p[@class="tournament-block_details-title"]', "text", None)

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 Postgres.
- .json files added to amazon S3 bucket esports-scraper-data.

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

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

Tournament_Data

1	0	CS:GO	2021 Elisa Invitational S...	Unknown	06.05.2021	03.06.2021	\$100,000
2	1	CS:GO	2021 ESEA Season 37 Pr...	Unknown	04.05.2021	27.06.2021	\$50,000
3	2	CS:GO	2021 ESEA Season 37 Pr...	Australia	04.05.2021	27.06.2021	\$11,000
4	3	CS:GO	2021 ESEA Season 37 Pr...	Unknown	04.05.2021	27.06.2021	\$50,000
5	4	CS:GO	2021 BLAST Rising	Unknown	03.05.2021	23.05.2021	\$30,000
6	5	CS:GO	2021 BIOGAMING Spring...	Unknown	03.05.2021	09.05.2021	\$1,200
7	6	CS:GO	2021 EPIC CIS League S...	Unknown	02.05.2021	30.05.2021	\$40,000
8	7	CS:GO	2021 Dreamhack Master...	Unknown	29.04.2021	09.05.2021	\$250,000
9	8	CS:GO	CBCS Elite League Seas...	Brazil	22.04.2021	16.05.2021	\$17,804
10	9	CS:GO	2021 SAZKA eLEAGUE S...	Czech Repub...	18.04.2021	20.06.2021	\$9,100
11	10	CS:GO	LOOTBET League Seaso...	Unknown	17.04.2021	16.05.2021	\$50,000
12	11	CS:GO	REPUBLEAGUE Tipos Se...	Unknown	14.04.2021	13.06.2021	\$71,000
13	12	CS:GO	2021 Kayzr League Spring	Unknown	07.04.2021	29.05.2021	\$4,760.32
14	13	CS:GO	2021 Master League Por...	Portugal	01.04.2021	Not ended	\$17,737
15	14	CS:GO	2021 ESL Turkey Champi...	Turkey	22.03.2021	16.05.2021	\$3,800
16	15	CS:GO	COOL League Season 9	Czech Repub...	20.03.2021	29.05.2021	\$11,229
17	16	CS:GO	Snow Sweet Snow #3	Unknown	15.03.2021	Not ended	\$100,000
18	17	CS:GO	2021 ESL Mistrzostwa P...	Poland	09.03.2021	16.05.2021	\$12,976
19	18	CS:GO	99Liga Season 17 Divisi...	Germany	08.03.2021	12.06.2021	\$31,316
20	19	CS:GO	2021 LPL Pro League Se...	Unknown	02.03.2021	11.05.2021	\$10,000
21	20	CS:GO	2021 ESL Meisterschaft ...	Germany	01.03.2021	Not ended	\$...
22	21	CS:GO	2021 Svenska Elitserien ...	Sweden	23.02.2021	23.05.2021	T...

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

- Player_Data

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