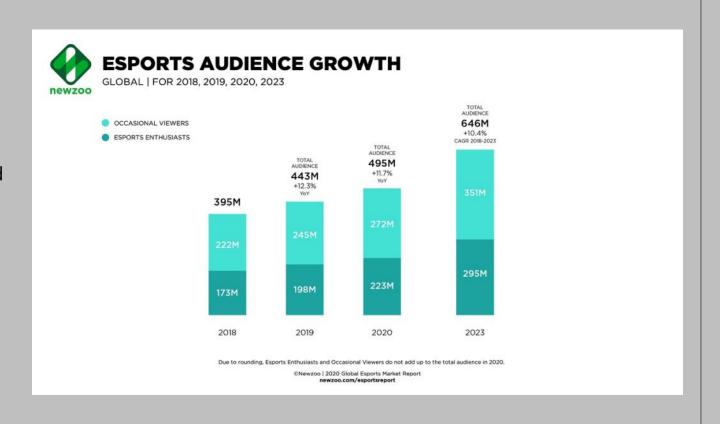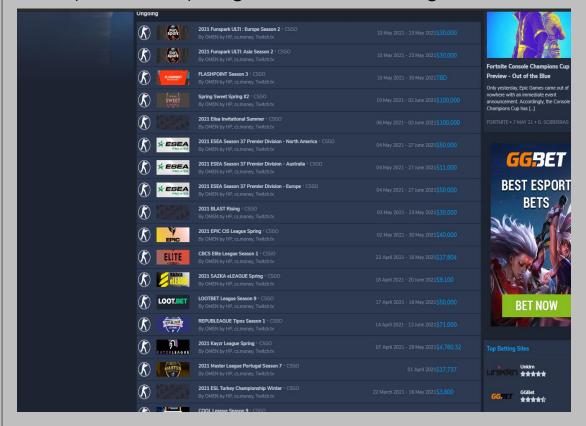# ESPORTS TOURNAMENT SCRAPER

Blair Martin

Esports is growing

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

◦ 52% of gamers say they purchase content to play more competitively, and 70% believe their level of play would be more competitive if they could afford more content. https://blog.treasuredata.com/

◦ Check if player involvement improved after tournaments. Using this data game companies can increase profit through increased player participation.
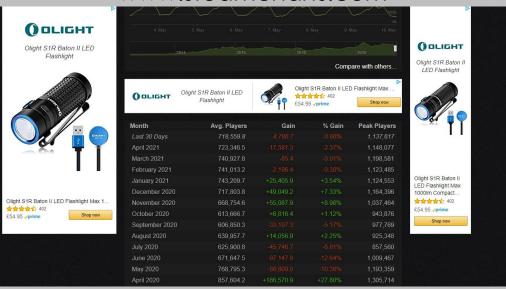

ESPORTS AUDIENCE GROWTH
GLOBAL | FOR 2018, 2019, 2020, 2023

newzoo

● OCCASIONAL VIEWERS
● ESPORTS ENTHUSIASTS

TOTAL AUDIENCE
646M
+10.4%
CAGR 2018-2023

TOTAL AUDIENCE
495M
+11.7%
YoY

TOTAL AUDIENCE
443M
+12.3%
YoY

395M

351M

272M

245M

222M

295M

223M

198M

173M

2018   2019   2020   2023

Due to rounding, Esports Enthusiasts and Occasional Viewers do not add up to the total audience in 2020.

©Newzoo | 2020 Global Esports Market Report
newzoo.com/esportsreport

Getting the data

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

https://activeplayer.io

https://activeplayer.io/dota-2/

Dota 2 Live Monthly Player Detailed Table

Month	Average Monthly Players	Monthly Gain / Loss	Monthly Gain / Loss %	Peak Players In a Day
Last 30 Days	441,621	-53,493	-11%	732,651
April 30, 2021	495,114	49,100	11%	746,650
March 30, 2021	446,014	10,360	2%	705,569
February 28, 2021	435,654	4,629	1%	698,874
January 30, 2020	431,025	9,052	2%	702,354
December 30, 2020	421,973	-3,681	-1%	725,240
November 30, 2020	425,654	17,096	4%	825,477
October 30, 2020	408,558	-2,501	-1%	725,477
September 30, 2020	411,059	-20,448	-5%	672,996
August 30, 2020	431,507	-21,005	-5%	667,928
July 30, 2020	452,512	-6,274	-1%	714,908
June 30, 2020	458,786	-27,705	-6%	734,896
May 30, 2020	486,491	-8,723	-2%	795,437
April 30, 2020	495,214	55,890	11%	803,035
March 30, 2020	439,324	30,803	7%	746,110
February 28, 2020	408,522	26,961	7%	666,355
January 30, 2020	381,560	-4,309	-1%	619,050
December 30, 2020	385,870	-18,142	-5%	686,855
November 30, 2019	404,012	13,018	3%	710,597
October 30, 2019	390,994	-33,112	-8%	742,562
September 30, 2019	424,106	-44,792	-11%	756,131
August 30, 2019	468,898	2,489	1%	828,440
July 30, 2019	466,410	-42,903	-9%	780,782
June 30, 2019	509,312	-41,257	-8%	867,158
May 30, 2019	550,569	27,990	5%	999,387

https://mmo-population.com/r/wow/stats

DATE	SUBSCRIBERS	ACTIVE PLAYERS
2021-05	114,628,062	4,355,866
2021-04	114,299,585	4,343,384
2021-03	113,925,426	4,329,166
2021-02	113,380,271	4,308,450
2021-01	112,249,468	4,265,480
2020-12	108,269,198	4,114,230
2020-11	104,000,564	3,952,021
2020-10	99,869,354	3,795,035
2020-09	96,051,429	3,649,954
2020-08	91,959,576	3,494,464
2020-07	88,088,402	3,347,359
2020-06	84,771,843	3,221,330
2020-05	81,120,103	3,082,564
2020-04	77,391,651	2,940,883

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

Select Date

General Info Format Matches Standings Vods Favourites

2021 Funspark ULTI : Europe Season 2

Start Date: 10.05.2021 Prize Pool: $30,000
End Date: 23.05.2021 Location: Unknown

General info
The 2021 Funspark ULTI Season 2 is the second season of the Funspark ULTI tournament series, an online CS: GO tournament featuring teams from Europe and Asia with a prize pool of $30,000 for each region.

Matches
UPCOMING ONGOING RESULTS

No Games Found - please try a different filter.

Standings

GGBET BEST ESPORTS BETS BET NOW!

Favourites
Add to Favorites
♥ CS:GO ♥ 2021 Funspark ULTI : Europe Season 2
Share
Add to Calendar

https://www.steamcharts.com

Month	Avg. Players	Gain	% Gain	Peak Players
Last 30 Days	704,422.0	-18,924.5	-2.62%	1,119,102
April 2021	723,346.5	-17,581.3	-2.37%	1,148,077
March 2021	740,927.8	-85.4	-0.01%	1,198,581
February 2021	741,013.2	-2,196.4	-0.30%	1,123,485
January 2021	743,209.7	+25,405.9	+3.54%	1,124,553
December 2020	717,803.8	+49,049.2	+7.33%	1,164,396
November 2020	668,754.6	+55,087.9	+8.98%	1,037,464
October 2020	613,666.7	+6,816.4	+1.12%	943,876
September 2020	606,850.3	-33,107.3	-5.17%	977,769
August 2020	639,957.7	+14,056.9	+2.25%	925,348
July 2020	625,900.8	-45,746.7	-6.81%	857,560
June 2020	671,647.5	-97,147.8	-12.64%	1,009,467
May 2020	768,795.3	-88,809.0	-10.36%	1,193,359
April 2020	857,604.2	+186,570.9	+27.80%	1,305,714
March 2020	671,033.3	+127,054.1	+23.36%	1,145,972
February 2020	543,979.2	+42,783.2	+8.54%	916,996
January 2020	501,196.0	+44,494.4	+9.74%	817,229
December 2019	456,701.6	+30,620.8	+7.19%	767,060
November 2019	426,080.8	+17,085.5	+4.18%	758,412
October 2019	408,995.3	-1,930.3	-0.47%	747,937
September 2019	410,925.6	-4,171.7	-1.00%	720,052

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 real-time data.

- Run scrapers in the cloud to automate scraping and sell data to the games companies.

Data to Analyse

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.

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	$... ✓ Succes
22	21	CS:GO	2021 Svenska Elitserien ...	Sweden	23.02.2021	23.05.2021	Tb...

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

Profitability

◦ Increase in players means more participation meaning more microtransactions and subscriptions from players.

◦ Competitive players are very dedicated to the game so will spend many hours playing.

◦ If we can show twitch participation improvement from tournaments then ad revenue will be increased.

◦ Companies may be opening to allowing microtransaction/subscription data analysis.