

Data And Fortnite: What can we learn from gaming?

Presentation by: Cesar Batrez-Delatorre



Fortnite Data Project: Outline

Created in 2017, Fortnite is now host to millions of players logging in every day throughout 2023. With so many matches going on, every shot, death, and win is recorded. With this data and along with other datasets, we set out to answer some real questions about fortnite.

In this slideshow we hope to answer a few questions:

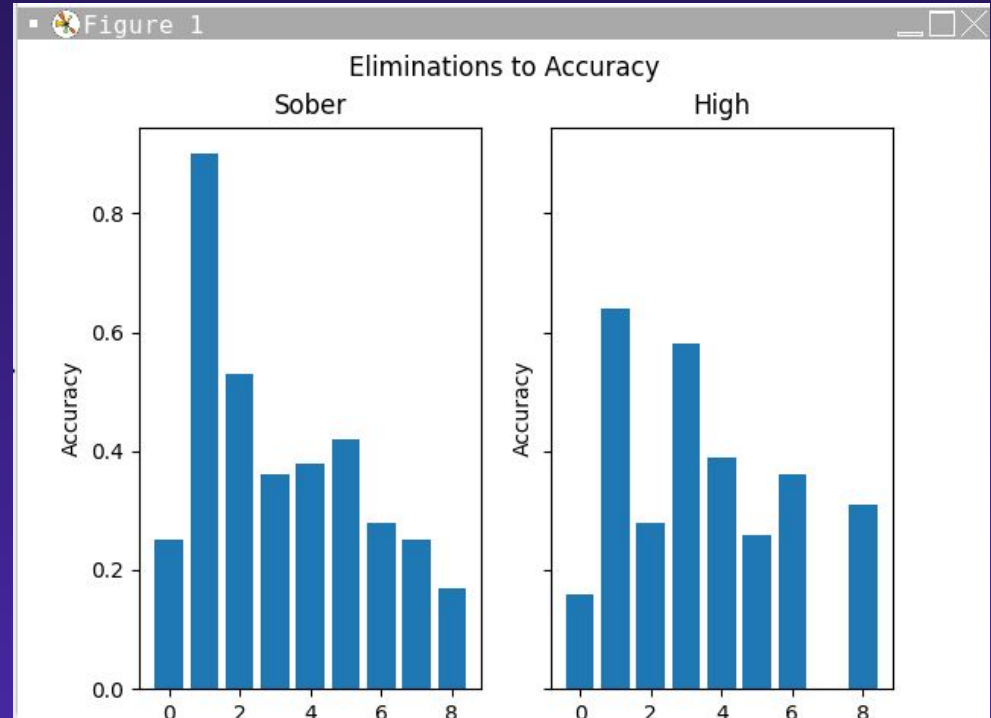
- 1) *What is the distribution of mental states during a game?*
- 2) *What is the average number of eliminations?*
- 3) *What is the average number of eliminations?*
- 4) *What is the average accuracy of players?*
- 5) *Who are some honorable players to mention?/ Which player has the highest solo score?*
- 6) *Who is the User with the longest username ?*
- 7) *And a lot more questions that will be answered.*



Hopefully these questions will provide lots of insight into a game many people love.

What is the distribution of mental states during a game?

During our investigation we found out that is a dataset of over 150 rows of data that **51.7%** of fornite players were **sober**(not under the influence of drugs.). On the other hand **48.27%** where **Under the Influence**. In the graph above Eliminations increase for those under the influence but the average accuracy decreases.



What is the average number of eliminations? (Solos,Duos,Trios,Squads,LTM)

2.517

Elimination s

The average
number of
eliminations for
DS1

2.475

Eliminations

The average
number of
eliminations for
DS2

2.202

Eliminations

The average
number of
eliminations for
DS3

2.398

Eliminations

The average
number of
eliminations
**over all
datasets.**

Highest Ranking Players

Here are some stats about the highest performing players in our datasets:

Highest Solo Score:

Player **Boss** has played a game with a total score of **6772116 pts**. This is nowhere near the world record of fortnite scores. That goes to the streamer **Rdnger** with a total score of **10,142,384 pts**.

Average Pts scored in solo was
1088202

Longest Username:

Twitch.GryphonRB has the longest username in Dataset 3. With further research we found his Twitch.



GryphonRB
22.5K followers

There were **88 players** that had Twitch, YT or .tv in their Username

Highest KD Ratio (All Game Modes):

The person with the highest KD ratio across all modes is: **BH nixxxay** with a KD ratio of **9.9** kills per death. And yes, he has a YouTube Channel as well.



nixxxay
@nixxxay 7.28K subscribers 85 videos
[More about this channel >](#)

More Statistics

Average solo top 1 finishes: 328.909408

This high winrate isn't because players are good, it is because the outliers (players like ^{Boss} Twitch.GryphonRB) have significantly higher win rates that dwarf everyone else's.



Average win ratio for duos: 11

This information is per person, so on average is more like 22 wins since in a duo match there is a team of two.

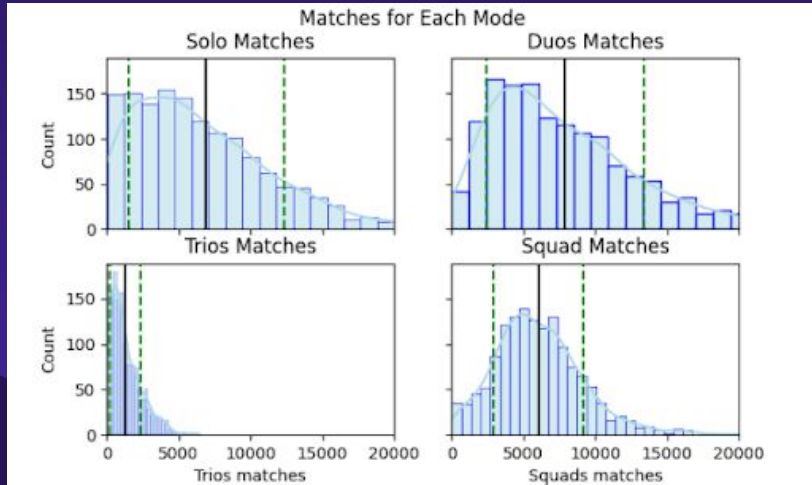
Average Minutes Played in LTM: 8503.5

This is almost around 14 hours of gameplay per person. This is due to the popularity of the Sandbox gamemode, Where players can spend an unlimited amount of time On the map.

Average accuracy of players: 26%

With this information, we can extrapolate that most Players have garbage aim, weather that is because of Mental state or if they play on console or not is up for More research.

Graphs, Graphs, Graphs.



Graphs like the ones shown can answer intriguing questions. Using the data, we can understand what gamemode in fortnite is most played. With X being the number of matches and Y being the amount of games played per person. A standard deviation is taken to find out the average amount played on all game modes.

We found out that Trios has the lowest number of matches played on average followed by Squads.