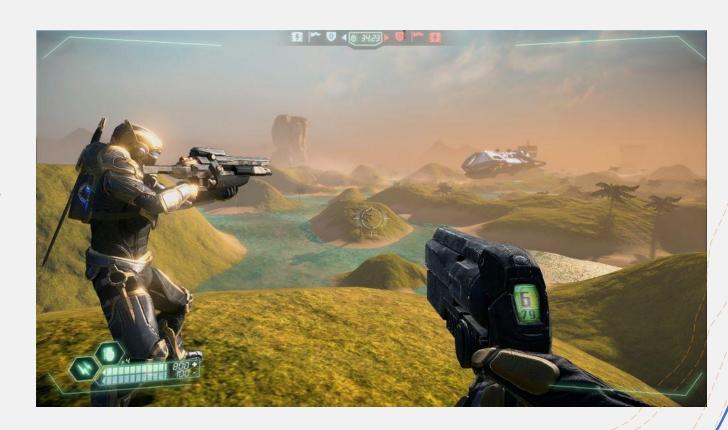


Research Question

+ How popular are First-Person Shooter (FPS) games amongst other video game genres?

Sub Questions

- 1) How many FPS games are there out of other genres?
- 2) Does it depend on what studio works on a shooter game? If So which developer?





Prerequisites

- +library(tidyverse)
- +library(tidyr)
- +library(dplyr)
- +library(readr)
- +library(ggplot2)



About Our Data

- Data frame contains games found on Steam (Video game digital distribution service by Valve)
 - Link to original data: https://www.kaggle.com/nikdavis/steam-store-games
 - Contains majority of Steam games
 - Gathered in 2019

STEAM°

glimpse(steam data)

Rows: 27.075 Columns: 18 \$ appid

\$ release date \$ english

\$ developer \$ publisher

\$ platforms

\$ genres

owners

price

\$ required age

\$ steamspy tags \$ achievements

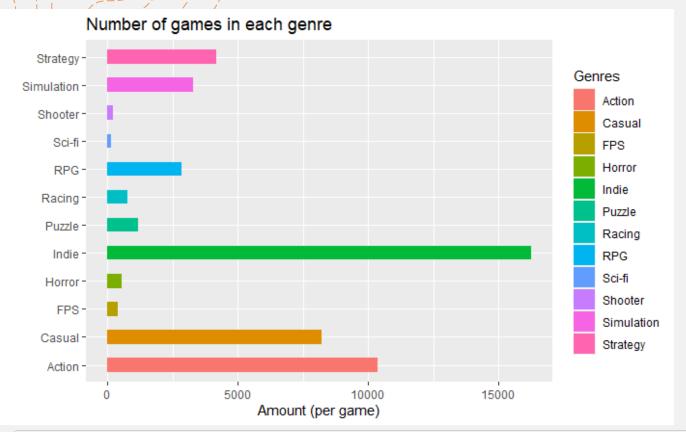
\$ name

```
<int> 10, 20, 30, 40, 50, 60, 70, 80, 130, 220, 240, 280, 300, 320, 340, 360, 380, 400, 420,~
                                                            <chr> "Counter-Strike", "Team Fortress Classic", "Day of Defeat", "Deathmatch Classic", "Hal~
                                                            <chr> "11/1/2000", "4/1/1999", "5/1/2003", "6/1/2001", "11/1/1999", "11/1/2000", "11/8/1998"~
                                                            <chr> "Valve", "Valve
                                                            <chr> "windows; mac; linux", "windows; mac; linux", "windows; mac; linux", "windows; mac; linux", "w-
                                                            <chr> "Multi-player;Online Multi-Player;Local Multi-Player;Valve Anti-Cheat enabled", "Multi~
                                                            <chr> "Action", 
                                                           <chr> "Action; FPS; Multiplayer", "Action; FPS; Multiplayer", "FPS; World War II; Multiplayer", "A~
                                                            <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 33, 147, 0, 54, 0, 0, 0, 13, 15, 22, 520, 73, 70, 0, 51, 66~
$ positive ratings <int> 124534, 3318, 3416, 1273, 5250, 2758, 27755, 12120, 3822, 67902, 76640, 3767, 10489, 6~
$ negative ratings <int> 3339, 633, 398, 267, 288, 684, 1100, 1439, 420, 2419, 3497, 1053, 1210, 787, 1020, 473~
$ average playtime <int> 17612, 277, 187, 258, 624, 175, 1300, 427, 361, 691, 6842, 190, 1356, 311, 46, 102, 28~
   median playtime <int> 317, 62, 34, 184, 415, 10, 83, 43, 205, 402, 400, 214, 134, 32, 29, 81, 184, 137, 301,~
                                                            <chr> "10000000-20000000", "5000000-10000000", "5000000-10000000", "5000000-10000000", "5000~
                                                           <dbl> 7.19, 3.99, 3.99, 3.99, 3.99, 3.99, 7.19, 7.19, 3.99, 7.19, 7.19, 0.00, 7.19, 3.99, 0.~
```

colnames (steam data)

```
"appid"
                                                            "english"
"publisher"
                    "platforms"
                                        "required age"
                                                            "categories"
"steamspy tags"
                                        "positive ratings"
                                                            "negative ratings"
                                                                                "average playtime"
"median playtime"
                    "owners"
```

How many FPS games are there out of other genres?

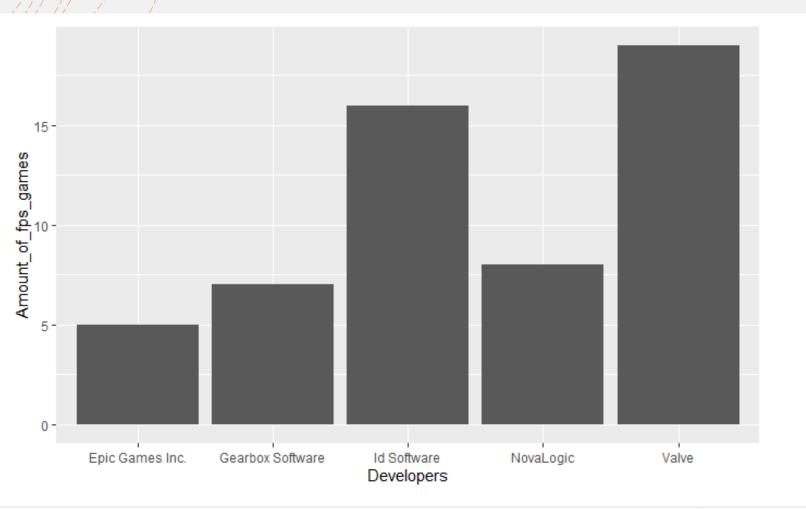


#Genres Top_Games <- data.frame (Genres = c("Action", "FPS", "Shooter", "Sci-fi", "Puzzle", "Indie", "Strategy", "Racing" , "RPG", "Casual", "Horror", "Simulation"), Amount = c(10344,405,227,157,1167,16232,4180,765,2863,8205,566,3284)) #ggplot(Top_Games, aes(x = Genres, y = Ammount_of_games)) + geom_col(fill = "black") ggplot(Top_Games, aes(x = Genres, y = Amount, fill = Genres,)) + geom_bar(stat = "identity", width = 0.5) + labs (title = "Number of games in each genre", x = "", y = "Amount (per game)") + coord_flip()</pre>

Analysis:

- Bar chart records the number of games in each title of genre selected
- FPS makes up 1.5% of Steam games
 - While Indie makes up 60%
- Indie is the largest genre because of the requirements
 - Video game created by an individual or group without financial and technical support of a publisher

Does it depend on what studio works on a shooter game? If So which developer?



+ Analysis:

- + Top 5 game developer studios who released the most FPS games on Steam
- + Valve has released the most FPS games with over 21 titles
 - + Some include: Counter-Strike, Team Fortress, Half-Life series, Left 4 Dead series, and many more



Conclusion

+ Understanding:

- + FPS make up a minority of video games on Steam
 - + Though small there are many well-known FPS games
- + Difficult to prove whether one genre is popular than another
 - + Numerous genres and broad number of owners per title
- + Deciding which genre is most popular is dependent on the person
 - + Lifestyle, personality, and costs
- + Weaknesses:
 - + Data
 - + Data was large, 27,075 rows
 - + More than one genre within a game
 - + Time restraints when creating project
 - + Wanted to add more graphs
 - + Avg. playtime amongst genres
 - + Amount of owners

