Analysis of Popularity Patterns of Games

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- Thesis Subject: Theory Of Fun!
The Data

- https://www.kaggle.com/tamber/steam-video-games
- PLAYER ID-GAME-PURCHASE/PLAY-TIME PLAYED
  - 151603712,"The Elder Scrolls V Skyrim",purchase,1.0,0
  - 151603712,"The Elder Scrolls V Skyrim",play,273.0,0
  - 151603712,"Fallout 4",purchase,1.0,0
  - 151603712,"Fallout 4",play,87.0,0
  - 151603712,"Spore",purchase,1.0,0
  - 151603712,"Spore",play,14.9,0
  - 151603712,"Fallout New Vegas",purchase,1.0,0
  - 151603712,"Fallout New Vegas",play,12.1,0
  - 151603712,"Left 4 Dead 2",purchase,1.0,0
  - 151603712,"Left 4 Dead 2",play,8.9,0
The Data

- 200 Interactions
- 12,393 Players
- 5,155 Games
- 3,574,876 Hours
- 129,511 Purchases
Mosts

• Most Total Playtime: Dota 2 with 981,684 Hours
  • 27% of total playtime
• Most Purchased: Dota 2 with 4,841 purchases
  • 3.7% of total Purchases
• Most Single Playtime: Sid Meier's Civilization V with 11,754 Hours
  • 0.3% of total playtime
• Most Games: User 62990992 with 1,068 games
  • 20.7% of all games
There are a total of 12393 players.
There are a total of 5155 games.
There are 5700 users who have only bought a single game.
There are 1006 users who bought more than 25 games.
There are 521 users who bought more than 50 games.
There are 245 users who bought more than 100 games.
What appears with it...

- Games that appear with Clicker Heroes
  - Team Fortress 2: 55.69%
  - Counter-Strike Global Offensive: 55.28%
  - Dota 2: 54.47%
  - Unturned: 53.25%
  - Warframe: 35.36%
  - Robocraft: 35.36%
  - Trove: 32.92%
  - Garry's Mod: 32.92%
  - **AdVenture Capitalist**: 32.52%
  - War Thunder: 28.05%
  - Left 4 Dead 2: 28.05%
  - Terraria: 27.64%
Most played Game

• Dota 2 was bought by 4841 players
• They were played along with:
  • Team Fortress 2: 14.93%
  • Counter-Strike Global Offensive: 13.09%
  • Unturned: 11.58%
  • Warframe: 9.61%
  • Left 4 Dead 2: 8.53%
• Not a lot to say here: let’s try Skyrim
Let’s take a look at Skyrim

• The Elder Scrolls V Skyrim was bought by 717 players
• They were played along with:
  • The Elder Scrolls V Skyrim – Dawnguard: 52.7%
  • The Elder Scrolls V Skyrim – Hearthfire: 51.12%
  • The Elder Scrolls V Skyrim – Dragonborn: 50.91%
  • Team Fortress 2: 44.35%
  • Left 4 Dead 2: 40.86%
• November(717) -> June(367) -> September(365) -> December(318)
Fallout 4

- Fallout 4 was bought by 168 players
  - They were played along with
    - The Elder Scrolls V Skyrim: 63.69%
    - Counter-Strike Global Offensive: 54.16%
    - Fallout New Vegas: 51.19%
    - Left 4 Dead 2: 47.02%
    - Team Fortress 2: 45.23%
- No DLC listed. Let's try Vegas!
Fallout: New Vegas

• Fallout New Vegas was bought by 337 players
• They were played along with:
  • The Elder Scrolls V Skyrim: 63.2%
  • Fallout New Vegas Honest Hearts: 59.94%
  • Fallout New Vegas Dead Money: 59.94%
  • Fallout New Vegas Courier's Stash: 55.78%
  • Left 4 Dead 2: 48.96%
• October(337) -> December(202) -> May(202) -> September(188)
[0.9980916030534351, 'Ricochet', 'Day of Defeat']
[0.9980916030534351, 'Deathmatch Classic', 'Day of Defeat']
[0.9972451790633609, 'Half-Life Blue Shift', 'Half-Life Opposing Force']
[0.995049504950495, 'Fallout New Vegas Honest Hearts', 'Fallout New Vegas Dead Money']
[0.995049504950495, 'Fallout New Vegas Dead Money', 'Fallout New Vegas Honest Hearts']
[0.9927536231884058, 'Borderlands DLC The Secret Armory of General Knoxx', 'Borderlands DLC The Zombie Island of Dr. Ned']
[0.9925925925925926, 'Borderlands DLC Mad Moxxi's Underdome Riot', 'Borderlands DLC The Zombie Island of Dr. Ned']
[0.9921875, 'Borderlands DLC Claptraps New Robot Revolution', 'Borderlands DLC The Zombie Island of Dr. Ned']
[0.9921875, 'Borderlands DLC Claptraps New Robot Revolution', 'Borderlands DLC Mad Moxxi's Underdome Riot']
[0.9918032786885246, 'Hitman Sniper Challenge', 'Hitman Absolution']
[0.9906976744186047, 'Killing Floor', 'Killing Floor Mod Defence Alliance 2']
[0.9898477157360406, 'Half-Life 2 Episode One', 'Half-Life 2 Lost Coast']
[0.9893617021276596, 'Fallout New Vegas Courier's Stash', 'Fallout New Vegas Dead Money']
[0.9890710382513661, 'Half-Life Opposing Force', 'Half-Life Blue Shift']
[0.9888888888888888, 'Grand Theft Auto III', 'Grand Theft Auto San Andreas']
[0.9888059701492538, 'Half-Life Deathmatch Source', 'Half-Life 2 Lost Coast']
[0.9878048780487805, 'Psychonauts Demo', 'Psychonauts']
Any questions?

• Anyone wanna watch a 5 minute Video?
  • https://www.youtube.com/watch?v=Jnp5El1HBBs
  • Moving Forward: Science Nuclear Strategy Games