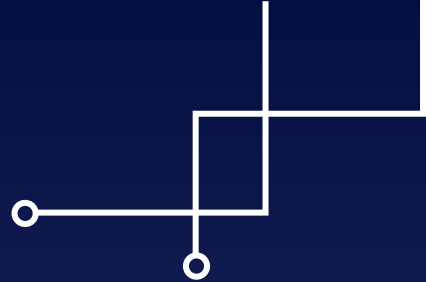




Steam Recommender System

Presented by Charles Pan

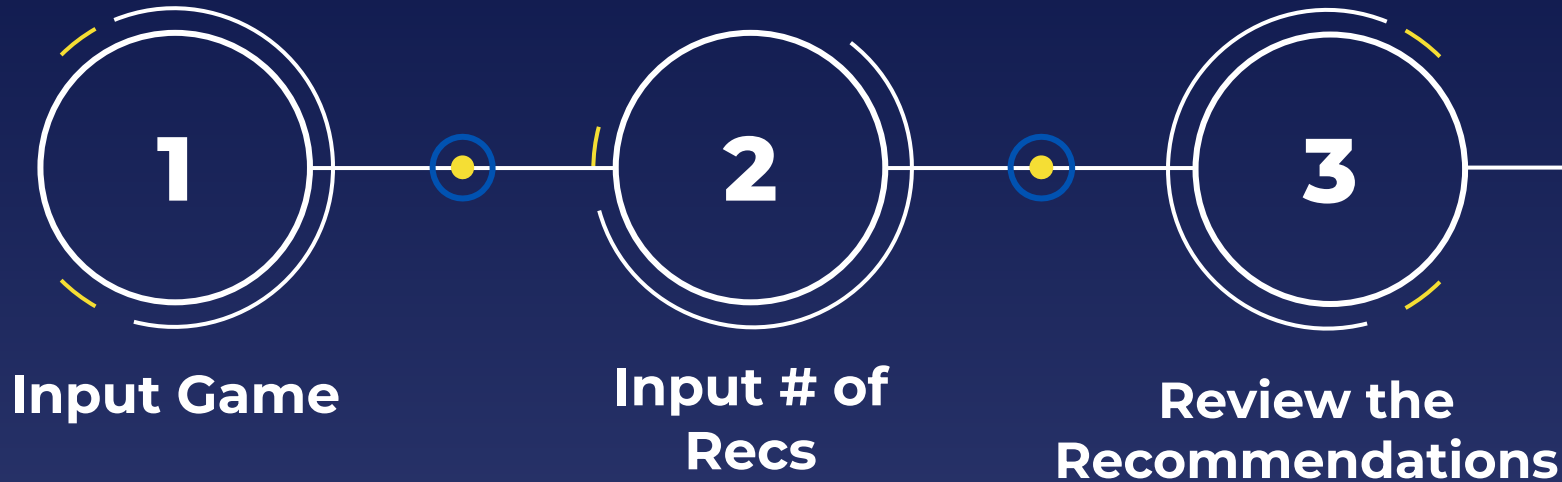




**Arguably the best video
game digital distribution
service**



How Does This Steam Recommender System Work?





The Workings



Data Sources

Steam

- 58983 Entries/Rows (Games)
- 39 Columns (Features)

Steam Spy

- 56623 Entries/Rows (Games)
- 20 Columns (Features)

Features Chosen

01

Categories

02

Genres

03

Tags

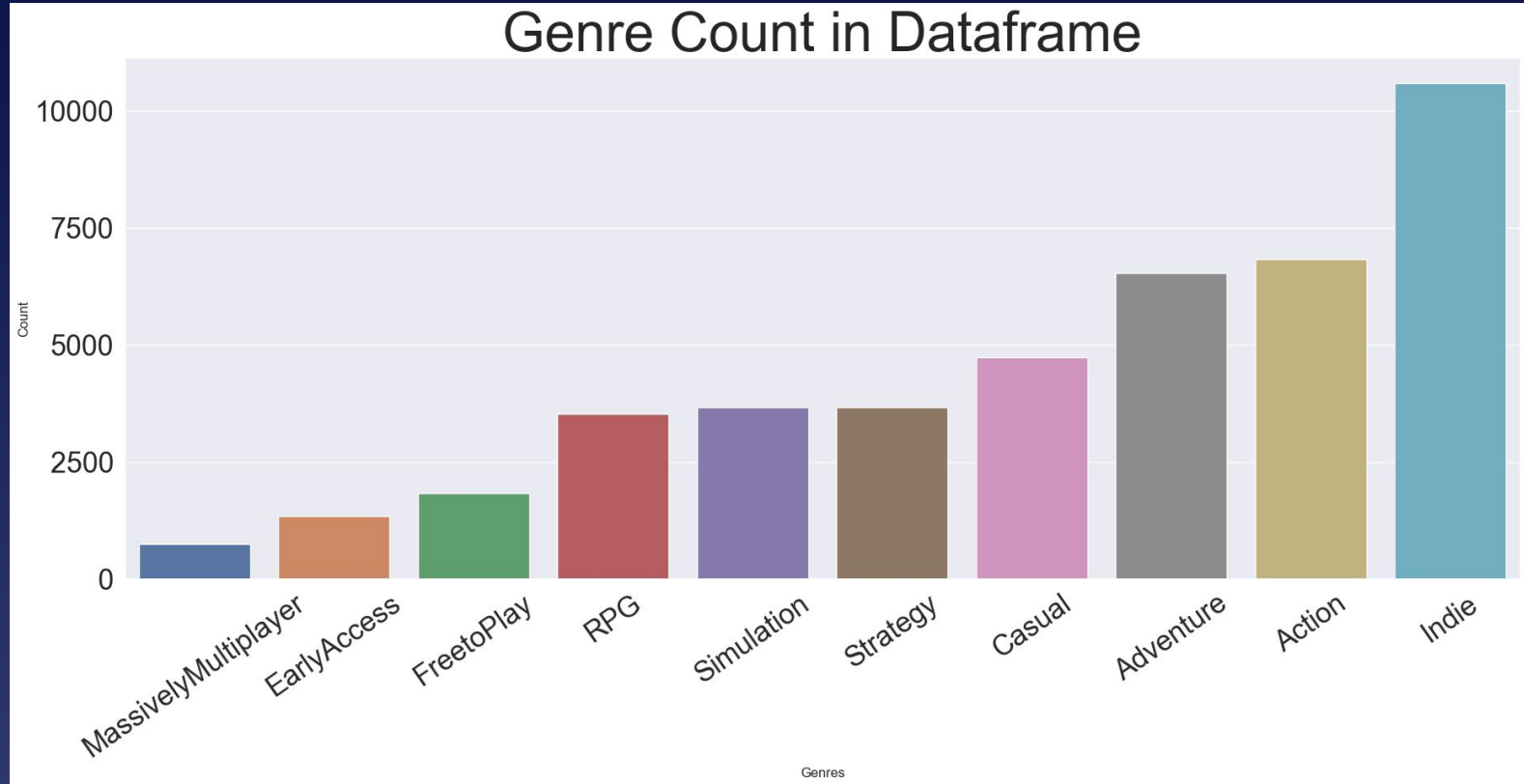
04

Misc



```
fig.savefig("../images/Genres.png")
```

Genres



Genres

```
fig.savefig("../images/Genres.png")
```

Categories

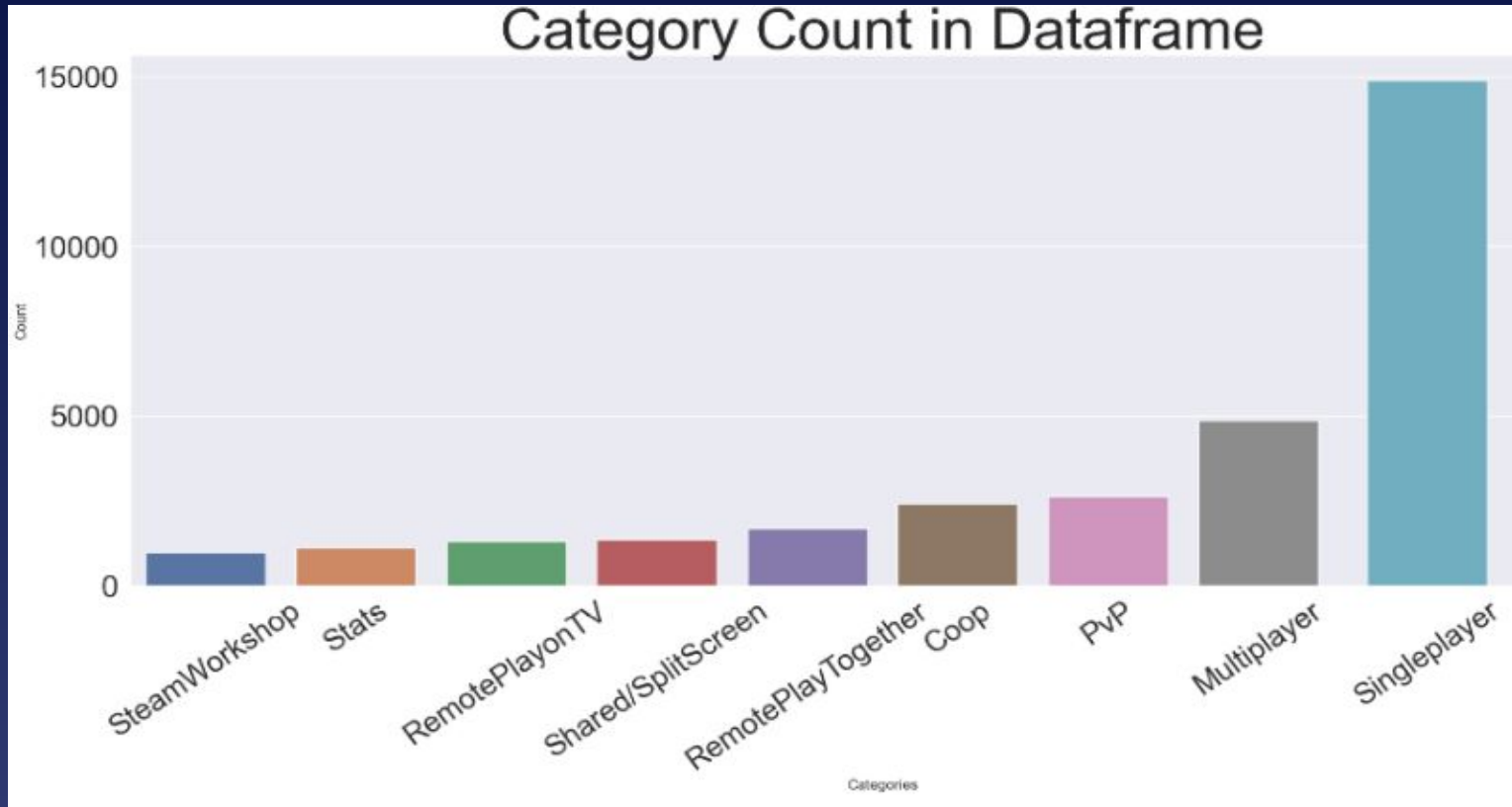
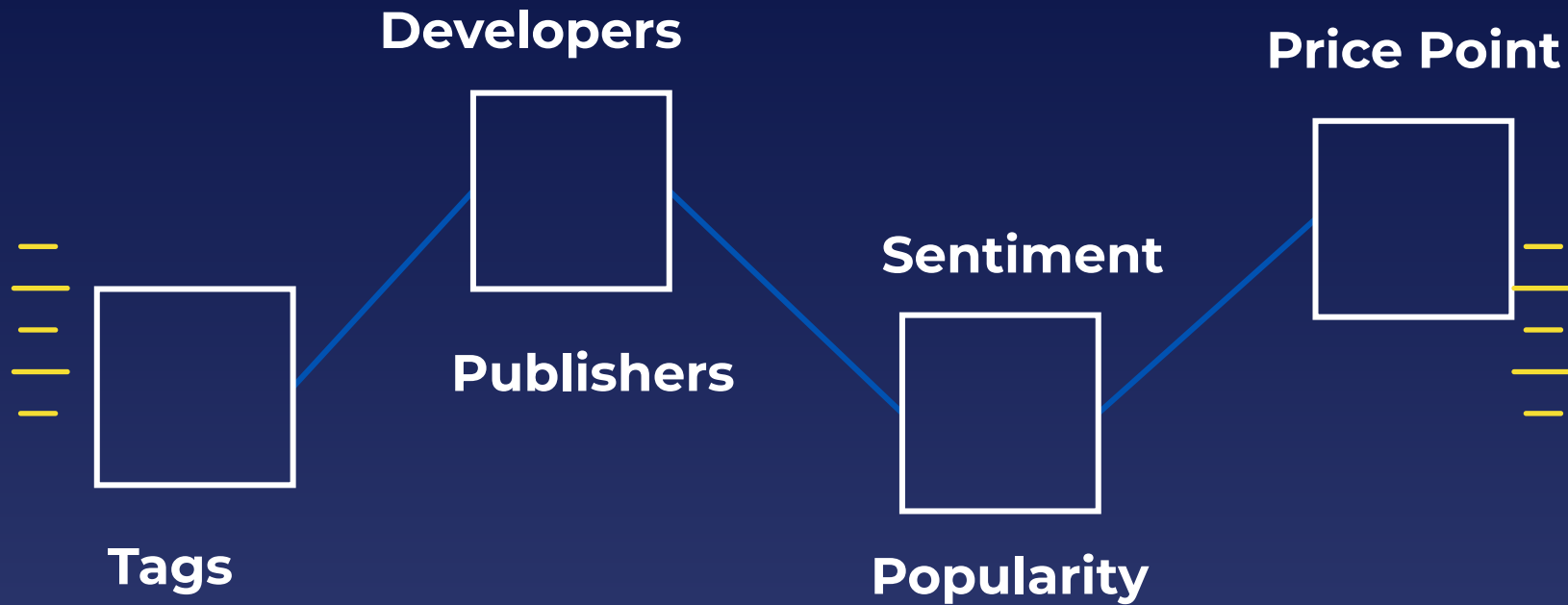


fig.savefig("../images/Genres.png")

Misc



We Run It Live (By live I mean local)



Data Entry

```
#The top is an user input for the game of interest, and the number of recs  
game = input('Game Name: ')  
game2 = input('Game Name(Leave Empty if No Further): ')  
game3 = input('Game Name(Leave Empty if No Further): ')  
game4 = input('Game Name(Leave Empty if No Further): ')  
recs = input('Number of Recommendations: ')  
SteamRecommendMeMany(game,game2,game3,game4,recs)
```

```
Game Name: STEINS;GATE  
Game Name(Leave Empty if No Further): The Binding of Isaac  
Game Name(Leave Empty if No Further):  
Game Name(Leave Empty if No Further):  
Number of Recommendations: 12
```

Game Name:

Game Name: STEINS;GATE

Game Name(Leave Empty if No Further):

Game Name: STEINS;GATE
Game Name(Leave Empty if No Further):
Game Name(Leave Empty if No Further):
Game Name(Leave Empty if No Further):
Number of Recommendations:

Recommendation Output



[Steam Website Link](#)

The AppID on Steam for the Game is 303310

The Game Developer = The House in Fata Morgana

The Game Publisher is ['MangaGamer']

The game was developed by ['NOVECT']

The game was released on May 13, 2016

These are the following categories classified under the game : ['Singleplayer',

These are the following genres classified under the game : ['Adventure']

These are the following tags classified under the game : ['VisualNovel', 'Great
'PsychologicalHorror', 'Atmospheric', 'Horror', 'Romance', 'Adventure', 'Anime'
ingleplayer', 'D', 'ChoicesMatter', 'MultipleEndings', 'FemaleProtagonist']

The following are the total reviews 2759

The following is the Positive Reviews/Total Reviews : 0.9565059804276912

The Game Currently Costs ... 24.99

Recommendation Output



[Steam Website Link](#)

The AppID on Steam for the Game is 1040420

The Game Developer = Dreamscaper

The Game Publisher is ['Freedom Games, Maple Whispering Limited']

The game was developed by ['Afterburner Studios']

The game was released on Aug 5, 2021

These are the following categories classified under the game : ['Singleplayer',

These are the following genres classified under the game : ['Action', 'Adventure

These are the following tags classified under the game : ['ActionRoguelike', 'Ad

awler', 'Singleplayer', 'ReplayValue', 'Adventure', 'GreatSoundtrack', 'FemalePr

lash', 'Rogue-like', 'StoryRich', 'Atmospheric', 'Fantasy', 'Surreal', 'Top-Down

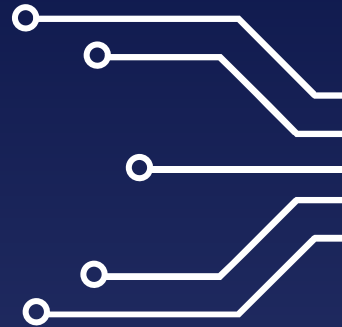
The following are the total reviews 2302

The following is the Positive Reviews/Total Reviews : 0.9044309296264118

The Game Currently Costs ... 24.99

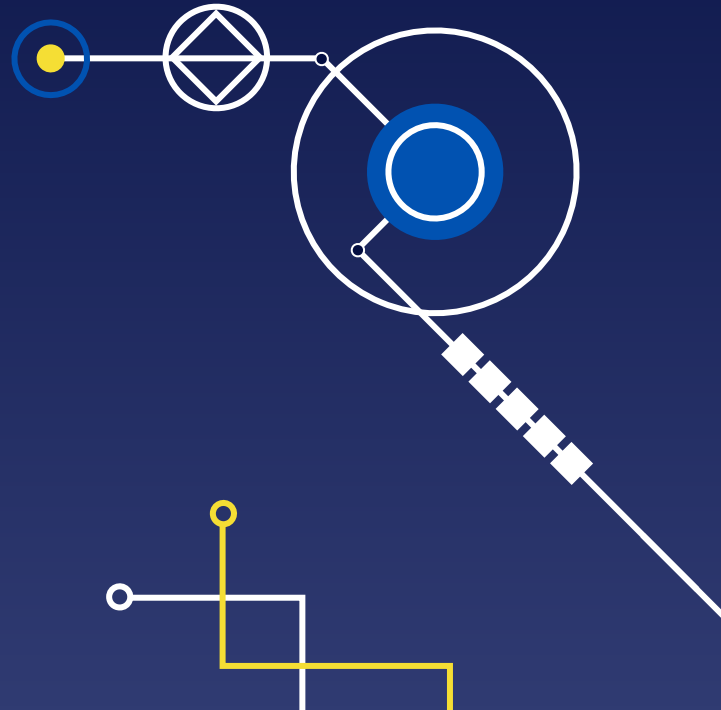
	AppID	Name	Publisher	Developer	Release_Date	Price	Categories	Genres	Tags	Total_Reviews	Sentiment
2	825630	STEINS;GATE 0	[Spike Chunsoft Co., Ltd.]	[MAGES. Inc.]	May 8, 2018	34.99	[Singleplayer,]	[Adventure]	[VisualNovel, StoryRich, Anime, TimeTravel, Sc...	4341	0.96
3	303310	The House in Fata Morgana	[MangaGamer]	[NOVECT]	May 13, 2016	24.99	[Singleplayer,]	[Adventure]	[VisualNovel, GreatSoundtrack, StoryRich, Goth...	2759	0.96
4	331470	Everlasting Summer	[Soviet Games]	[Soviet Games]	Nov 19, 2014	0.00	[Singleplayer,]	[Adventure, Casual, FreetoPlay, Indie]	[VisualNovel, StoryRich, FreetoPlay, Anime, Gr...	60733	0.96
5	477740	Zero Escape: The Nony Games	[Spike Chunsoft Co., Ltd.]	[Spike Chunsoft Co., Ltd.]	Mar 24, 2017	29.99	[Singleplayer,]	[Adventure]	[VisualNovel, StoryRich, Puzzle, Mystery, Choi...	3930	0.95
6	637850	Confess My Love	[LR Studio]	[LR Studio]	May 27, 2017	0.00	[Singleplayer,]	[Adventure, FreetoPlay, Indie, RPG]	[FreetoPlay, RPG, Anime, Horror, MultipleEndin...	4315	0.93
7	736570	The Crooked Man	[PLAYISM]	[Uri Games]	Jan 16, 2018	2.99	[Singleplayer,]	[Adventure, Casual, Indie]	[D, Horror, PsychologicalHorror, MultipleEndin...	635	0.92
8	1040420	Dreamscaper	[Freedom Games, Maple Whispering Limited]	[Afterburner Studios]	Aug 5, 2021	24.99	[Singleplayer,]	[Action, Adventure, Indie, RPG]	[ActionRoguelike, Action, Rogue-lite, Indie, R...	2302	0.90
9	970570	CHAOS;CHILD	[Spike Chunsoft Co., Ltd.]	[MAGES. Inc.]	Jan 22, 2019	34.99	[Singleplayer,]	[Adventure]	[VisualNovel, Mystery, Anime, StoryRich, Viole...	1992	0.94
10	510420	The Hex	[Daniel Mullins Games]	[Daniel Mullins Games]	Oct 16, 2018	9.99	[Singleplayer,]	[Indie]	[Indie, Singleplayer, StoryRich, Psychological...	2526	0.94
11	930910	STEINS.GATE: Linear Bounded Phenogram	[Spike Chunsoft Co., Ltd.]	[MAGES. Inc.]	Feb 19, 2019	59.99	[Singleplayer,]	[Adventure]	[Adventure, VisualNovel, Anime, StoryRich, Sci...	514	0.98
12	311240	Zero Escape: Zero Time Dilemma	[Spike Chunsoft Co., Ltd.]	[Spike Chunsoft Co., Ltd.]	Jun 29, 2016	19.99	[Singleplayer,]	[Adventure]	[Puzzle, VisualNovel, PsychologicalHorror, Sto...	3188	0.86
13	857450	ISLAND	[Frontwing USA]	[Frontwing]	Aug 23, 2018	29.99	[Singleplayer,]	[Adventure, Casual]	[VisualNovel, Anime, StoryRich, Adventure, Cut...	1219	0.96

Recommendations



Next Steps

- 1) Create a Steam Profile Extractor to use and create more recommendations based off of someones Steam profile.
- 2) Create a collaborative based recommender system to offer different options for users.
- 3) Do a recommender system based off review words (NLP) to flex



THANKS!

Do you have any questions?

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