









Predicting Game's Sales


By Ghanim Alghanim, Ali Altamimi


Gathering Data

Web Scrapping

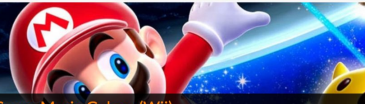
- The dataset from collected [VGChartz](https://www.vgchartz.com/)
- ~61,000 observation and 18 features.
- Some of the features are platform, genre, score, user vote count... etc.

Pos	Game	Console	Publisher	Developer	VGChartz Score	Critic Score	User Score	Total Shipped	Total Sales	NA Sales	Release Date	Last Update
1	 Super Mario Galaxy Read the review	Wii	Nintendo	Nintendo EAD Tokyo	9.6	9.7	9.6	12.80m	N/A	N/A	12th Nov 07	N/A
2	 Super Mario Galaxy 2 Read the review	Wii	Nintendo	Nintendo EAD Tokyo	9.6	9.7	9.8	7.41m	N/A	N/A	23rd May 10	N/A
3	 It Takes Two Read the review	PS4	Unknown	Hazelight	9.5	N/A	N/A	N/A	N/A	N/A	N/A	15th Apr 21
4	 Mass Effect 2 Read the review	PC	Electronic Arts	BioWare Corp.	9.5	9.6	N/A	N/A	0.39m	0.01m	26th Jan 10	N/A
5	 Mass Effect 2 Read the review	Xbox 360	Electronic Arts	BioWare Edmonton	9.5	9.5	8.9	N/A	3.10m	1.99m	26th Jan 10	N/A
6	 Metal Gear Solid 4: Guns of the Patriots Read the review	PS3	Konami	Kojima Productions	9.5	9.3	9.8	6.00m	N/A	N/A	12th Jun 08	N/A
7	 World of Goo Read the review	PC	Take-Two Interactive	2D Boy	9.5	9.0	N/A	N/A	0.03m	N/A	21st Oct 08	N/A
	 World of Goo Read the review	WiiWare									12th Oct 08	


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America - Front



Super Mario Galaxy (Wii)

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"Mario has taken off into space! But does his latest adventure earn a gold star? Or does it get sucked into a black hole?"

By [Daniel Shaw-Strom](#) 23rd Feb 2009 | 11,006 views [Read full review](#)

Official Review

Summary

The ultimate Nintendo hero is taking the ultimate step... into space.

- Become Mario as he traverses a galaxy of gravities, traveling in and out of gravitational fields by blasting from planet to planet. Players experience dizzying perspective shifts as they run upside down through wild alien worlds that need to be seen to be believed.
- Controlling Mario is as simple as can be with the Wii Remote and Nunchuk. Players move Mario with the Control Stick and shake the Wii Remote to perform a spin move or cue stars that launch him to and from planetary objects. Players can even point at bits of stardust to collect them or latch onto stars to break a magnetic trail through the heavens.
- Don't want to head into space alone? With a second Wii Remote, another player can play alongside

Shipping Total

12,800,000 Units

As of: March 31st, 2020

Related News

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[Super Mario Odyssey is the Best-Selling 3D Mario Game](#)
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Opinion (846)

[Bee](#) posted 06/05/2021, 08:06
09/2020 - 03/2021: No change
[Message](#) | [Report](#)

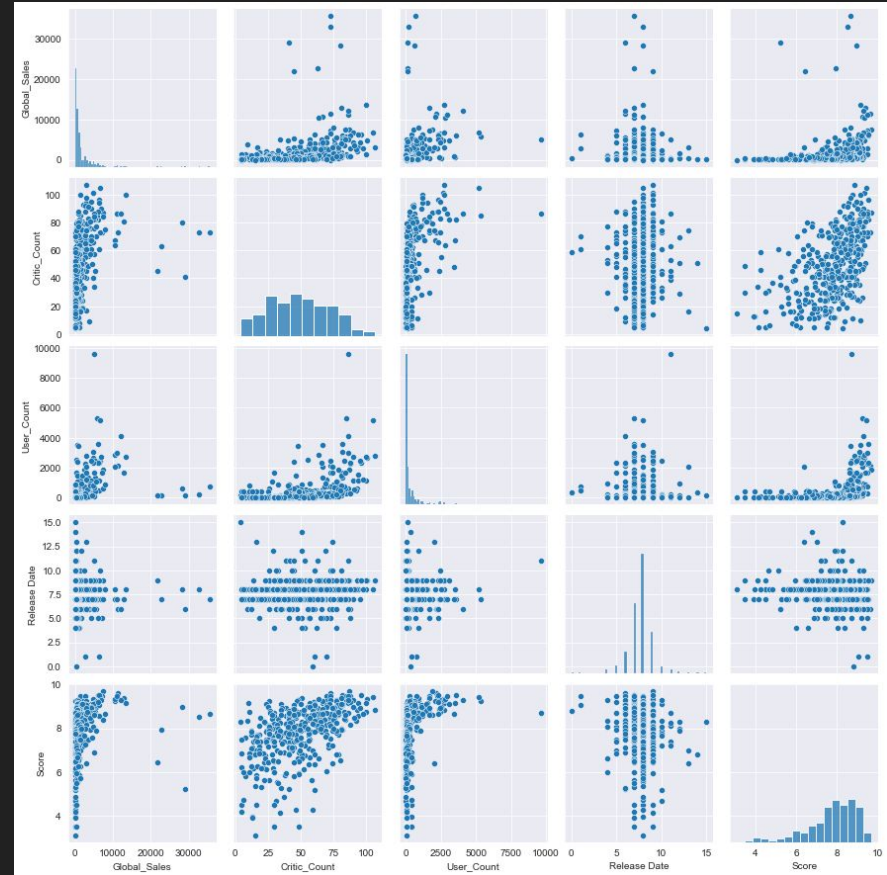
[Dorothy](#) posted 01/04/2021, 06:27
Definitely my favorite game of all time. I have beaten it four times now. Bought the 3D All Stars collection just for this one game alone, wasn't disappointed. The game still holds up even today. Truly a masterpiece.

[Matti](#) posted 07/05/2020, 08:10
+30k
[Message](#) | [Report](#)

[Pawlin](#) posted 30/10/2015, 01:22
Nintendo says 12.59m as of september 30.

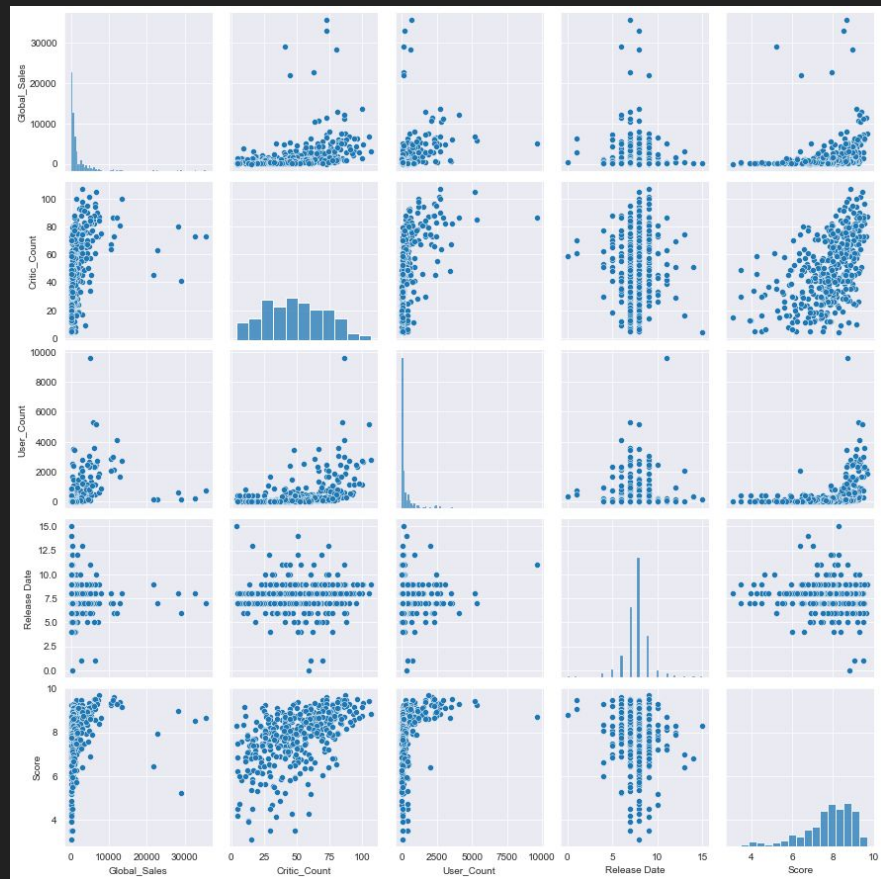
Data Cleaning

Data Cleaning & Feature Engineering



Data Cleaning & Feature Engineering

- ~400 observation.
- ~38 features.



Creating a Model

Splitting The Data Frame

- No Categorical
- Genre
- Console
- Rating
- Console & Rating
- Genre & Console
- Genre & Rating
- All Categorical

Models used

- Linear Regression
- Lasso Regression
- Ridge Regression

	Linear Score	Lasso Score	Ridge Score
No Categorical	0.172062	0.172069	0.172088
Genre	0.160681	0.160806	0.163956
Console	0.242307	0.242381	0.244139
Rating	0.240552	0.240547	0.240355
Console & Rating	0.302434	0.302504	0.304803
Genre & Console	0.221529	0.222290	0.233919
Genre & Rating	0.193233	0.193353	0.198735
All Categorical	0.236200	0.236593	0.253576

Prediction

```
big_new_df_Genre_Rating.columns
```

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Index(['Global_Sales', 'Critic_Count', 'User_Count', 'Release Date', 'Score',  
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      'Genre_Fighting', 'Genre_Misc', 'Genre_Music', 'Genre_Party',  
      'Genre_Platform', 'Genre_Puzzle', 'Genre_Racing', 'Genre_Role-Playing',  
      'Genre_Shooter', 'Genre_Simulation', 'Genre_Sports', 'Genre_Strategy',  
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      dtype='object')
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Prediction Result = 90m

Thank you

Questions ?