## IRON HACK

Web Scraping Project

By: Christopher Angeles

# VICTOMANIA Market >>>> Christopher Angeles

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**Micromania** 

Micromania is looking to acquire large amount of inventory

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- Acquisition of preowned games
- Selling New always greater profit than preowned

Goal: Optimize market strategy for what types of preowned games makes most profit

#### A STRATEGY TIMELINE

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**Data Acquisition** Research Using Intermediate Python and Research and find best website >>>> Pandas library to acquire data to scrape data for analysis from a website and store in MySQL database Research **Data Acquisition** Wrangling **Analysis** Report Perform analysis on the 0 database acquired to give insight into what strategy will Modify and Clean data so it can Report data in a clear, informed yield largest profit margin via be utilized and analyzed later method to client MySQL Wrangling **Analysis** Report

### DATA ACQUISITION IS KEY...



#### GENRE

Find the most popular genres in video game sales

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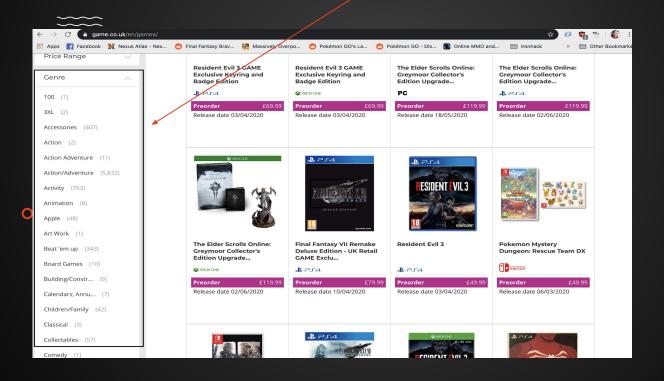
#### CONSOLE

Which console related to the most popular games being sold

#### **NEW VS. PREOWNED PRICE**

Largest profits between selling pre owned vs selling new in relation to genre and console

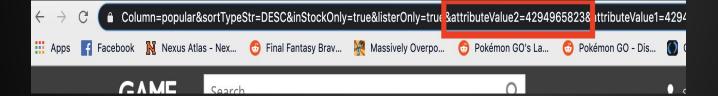
### Scraping Data Links



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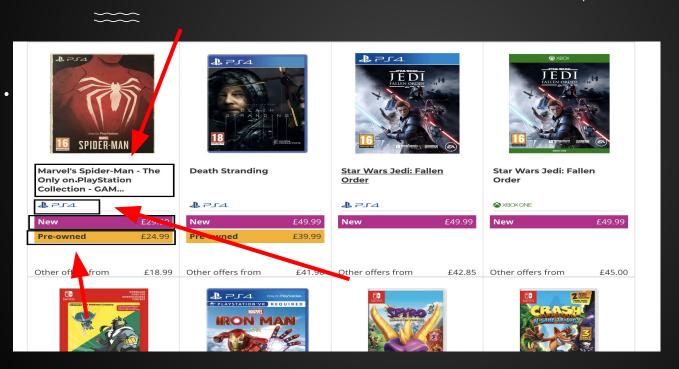
### Scraping Data Links

Created a database with just the links for each website directory



### Scraping All Games per Genre

Created second database with name, console, and prices

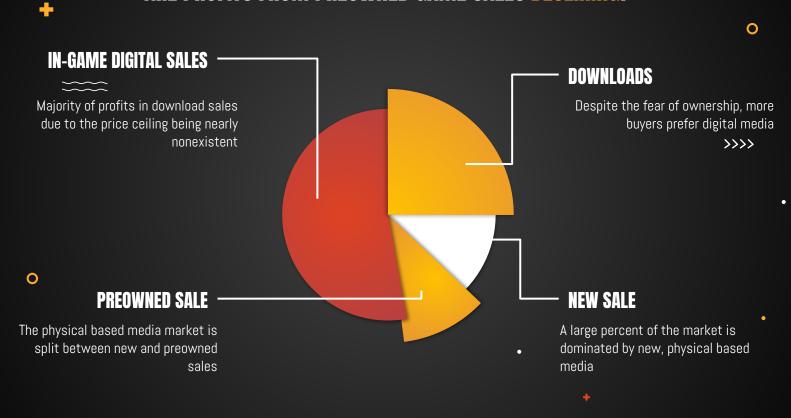


### Database in MySQL

Game \$								conso le off
		re Content Relations Triggers Table Info Query						Table History Users Console
ABLES	index	Name	New_Price	Preowned_Price	Download_Price	Other	Console	Genre
Game	Q	Marvel's Spider-Man - The Only on PlayStation Collecti	29.99	24.99	24.99	39.88	PlayStation 4	Action/Adventure
Genre	1	Death Stranding	49.99	39.99	39.99	41.9	PlayStation 4	Action/Adventure
	2	Star Wars Jedi: Fallen Order	49.99	42.99	42.99	42.85	PlayStation 4	Action/Adventure
	3	Star Wars Jedi: Fallen Order	49.99			42.85	Xbox One	Action/Adventure
	4	Pokemon Sword or Shield Expansion Pass	0	29.99	29.99	0	Switch	Action/Adventure
	5	Spyro Reignited Trilogy	36.36			42.88	Switch	Action/Adventure
	6	Crash Bandicoot N.Sane Trilogy	44.99	0	0	45.88	Switch	Action/Adventure
	7	Marvel's Spider-Man Game Of The Year Edition	39.99			46.99	PlayStation 4	Action/Adventure
	8	Spyro Reignited Trilogy	22.99	22.99	22.99	21.95	Xbox One	Action/Adventure
	9	LEGO Jurassic World	32.99			24.98	Switch	Action/Adventure
	10	Dragon Ball Z: Kakarot	44.99	0	0	0	PlayStation 4	Action/Adventure
	11	l Dragon Ball Z: Kakarot	44.99			49.95	Xbox One	Action/Adventure
	12	2 Dragon Ball Z: Kakarot	0	49.99	49.99	0	PC	Action/Adventure
	13	3 Luigi's Mansion 3	44.99	42.99	42.99	54.95	Switch	Action/Adventure
	14	Xbox One X with Star Wars Jedi: Fallen Order Bundle	364.95	0	0	0	Xbox One	Action/Adventure
	15	Dragon Ball Z: Kakarot Ultimate Edition		74.99	74.99		PC	Action/Adventure
	16	Dragon Ball Z: Kakarot Deluxe Edition	0	64.99	64.99	0	PC	Action/Adventure
	17	7 Crash Bandicoot N. Sane Trilogy	22.99	22.99	22.99	28.99	PlayStation 4	Action/Adventure
	18	Star Wars Jedi: Fallen Order Deluxe Edition	0	42.99	42.99	72.2	PlayStation 4	Action/Adventure
	19	Crash Bandicoot N.Sane Trilogy	22.99			39.88	Xbox One	Action/Adventure
	20	Star Wars Jedi: Fallen Order Deluxe Edition	74.86	0	0	0	Xbox One	Action/Adventure
	21	Disney Classic Games: Aladdin and The Lion King	29.99			29	Switch	Action/Adventure
	22	2 Disney Classic Games: Aladdin and The Lion King	29.99	0	0	23.65	PlayStation 4	Action/Adventure
	23	B Disney Classic Games: Aladdin and The Lion King	29.99			31.89	Xbox One	Action/Adventure
	24	Red Dead Redemption 2	59.99	0	0	0	PC	Action/Adventure
	25	The Elder Serelle Online Terrial I Inlimited 2000 Crowns		14.00	14 00		Vhoy Live	Action/Adventure

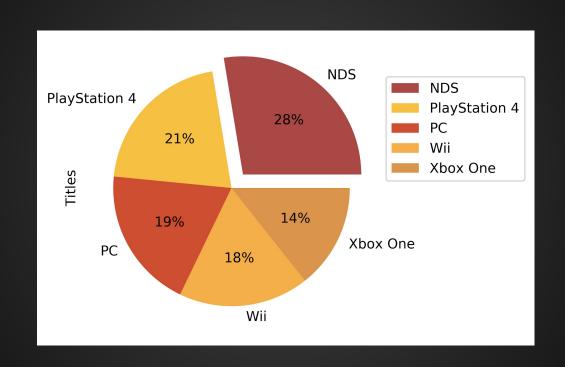


#### **ARE PROFITS FROM PREOWNED GAME SALES DECLINING?**



<sup>\*</sup> Percentages are not actually true

### WHAT **CONSOLES** HAVE THE MOST GAMES?



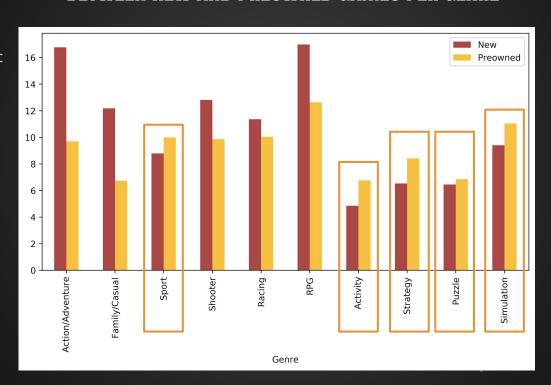
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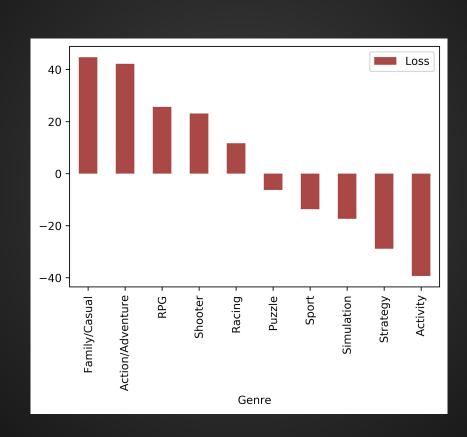
### USING THE DATA COLLECTED, WE CAN SEE SALE DIFFERENCE BETWEEN NEW AND PREOWNED GAMES PER GENRE



### ... PERCENTAGE LOSS PER GENRE COMPARED TO NEW SALE

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### WHERE DO WE GO FROM HERE...

Collect more data from other sources and compile data to increase sample size

To increase profit from acquisition, purchase preowned games from genres that preowned sell more than new

Don't sell preowned games in largest profit loss genre



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