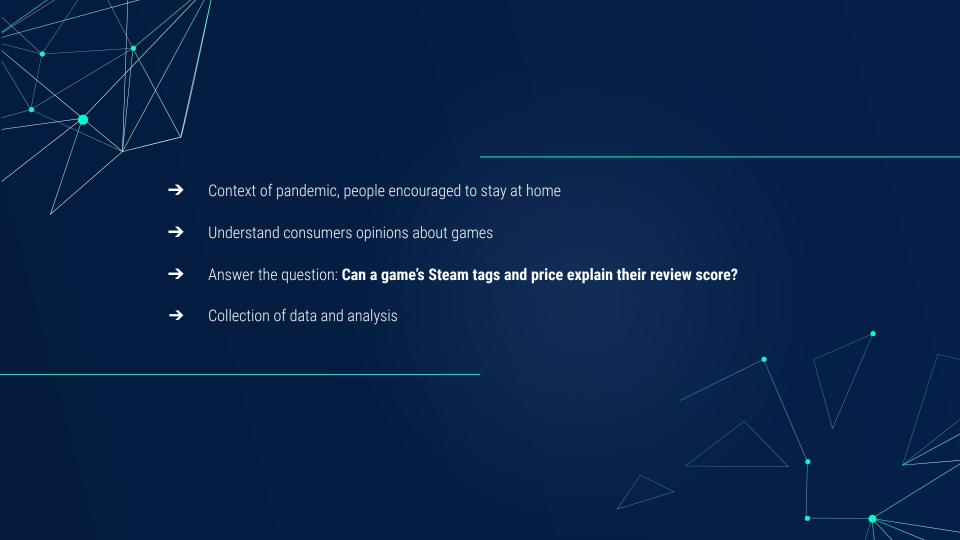


DE MELO SOUSA Isabella DE SOUZA OLIVA Gabriel MORINA Alessandro SOUZA PINTO MEDEIROS Gabriel









#### **DATA SOURCE**

Search...

#### Steam Database

This third-party tool gives you better insight into the Steam platform and everything in its database.

Look through our FAQ if you have any questions about SteamDB. Tweet at @SteamDB or join our Discord.

Most Played Games		Players Now	Peak Today	Trending Games		Last 7 days	Player
COLNTENACTOR	Counter-Strike:	1,100,457	1,107,826	DYSON SPHERE PROGRAM	Dyson Sphere P	مد	20,
M DOTA 2	Dota 2	695,300	695,300	Skul 🦱	Skul: The Hero		16,
BATTLEGROUNDS	PLAYERUNKNO	424,372	452,989	HOME	Home Behind 2	~	12,
RUST	Rust	178,267	229,396	uncilled!	Unrailed!	ww	9,8
10	Grand Theft Aut	150,011	151,794	EVERSPACE 2	EVERSPACE™ 2	~~~	1,9
RUNEIN'S SECE	Tom Clancy's Ra	122,147	124,281	EScapists 2	The Escapists 2		2,6
F 2011	Apex Legends	119,456	120,072	RESIDENT EVIDOR	Resident Evil 7		2,5
EXICE	Path of Exile	104,555	115,258	THE STATE OF THE S	CosmicBreak Un	m	1,6
THE WHITE SAME	Team Fortress 2	94,756	97,028	The Divine Paradox	The Divine Para	m	8
MANAGER 202	Football Manag	85,928	85,928	VOLCANDIDS COMMENT	Volcanoids	~~~	9
	ARK: Survival Ev	85,876	85,876	Legend	Endless Legend	~~~~~	1,4
Lyberpunk	Cyberpunk 2077	78,801	78,801	Aug .	嗜血印 Bloody S	/	1,9
STARDEW	Stardew Valley	64,267	64,267	ENDER LILIES	ENDER LILIES	N	1,2
SEASON 1	Rocket League	61,790	107,168	AWAYOU	A Way Out	~~~~~~	1,6
7	Wallpaper Engine	58,970	60,047	GHOST RECON	Tom Clancy's G	mm	4,7

#### **STEAM DATABASE**

SteamDB is a third-party tool that gives you better insight into the Steam platform and everything in its database.

659



#### **GATHERING DATA**



- → SQL Database with all games list
- → Crawler accessing app-ids

Image [2]: SteamDB Top Rated games website screenshot

#### **PAGE SAMPLE**



Image [2]: The Witcher 3 page sample screenshot

#### **OUR NUMBERS**

Days scraping

**426** 

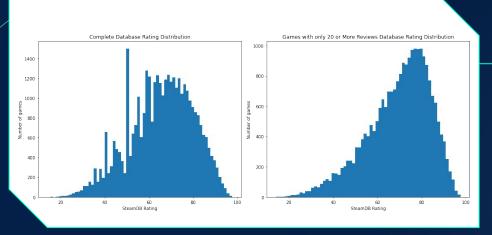
Features

40.000

Samples

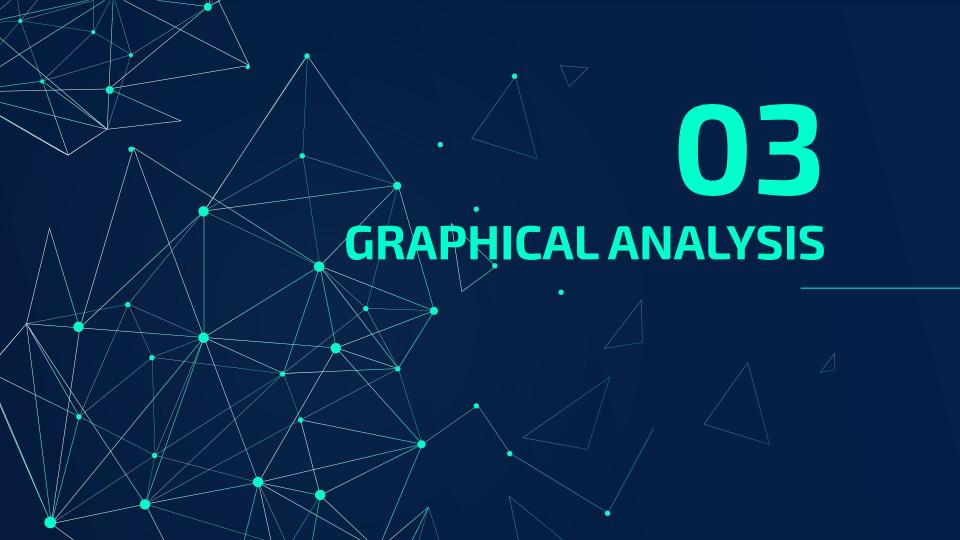


### **DATA CLEANING**



- → Eliminate rows with missing values
- → Data Filtering
- → Final sample with 23.000 games

Image [1]: SteamDB website screenshot



### **MOST FREQUENT TAGS**

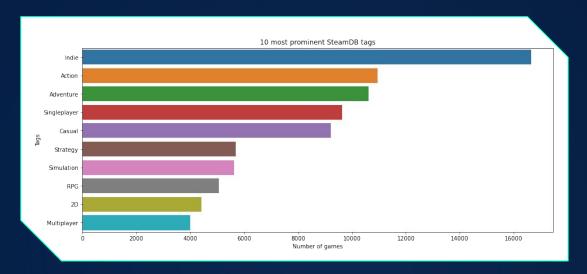


Image [3]: Chart of most prominent SteamDB tags

## AVERAGE RATING OF MOST POPULAR

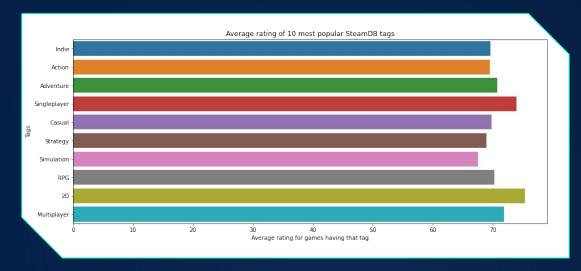


Image [4]: Chart of average rating of 10 most popular tags

## AVERAGE RATING OF MOST WELL RANKED TAGS

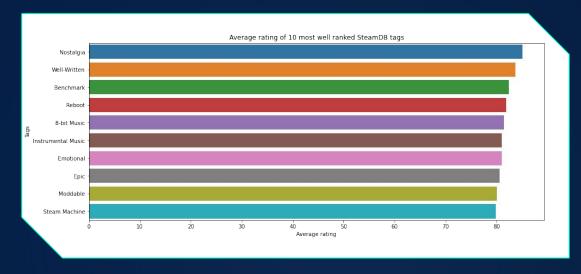


Image [5]: Chart of average rating of most well ranked tags

# AVERAGE PRICE FOR MOST POPULAR TAGS

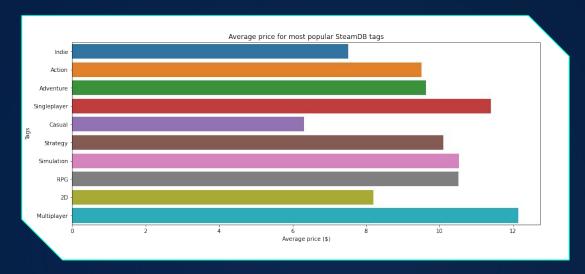


Image [6]: Chart of average price

## AVERAGE PRICE FOR MOST EXPENSIVE TAGS

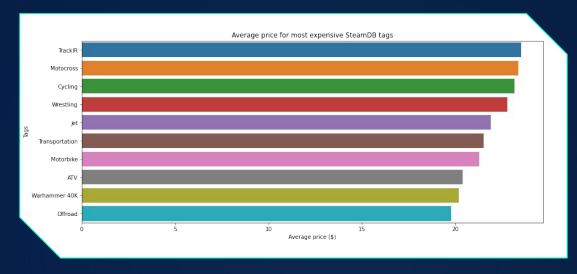


Image [6]: Chart of average price for most expensive tags

### RELATION AVERAGE PRICE DEVS AND PUBLISHERS

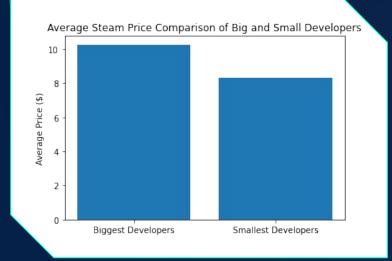


Image [8]: Chart of average price for 30 biggest developers and 30 smallest developers

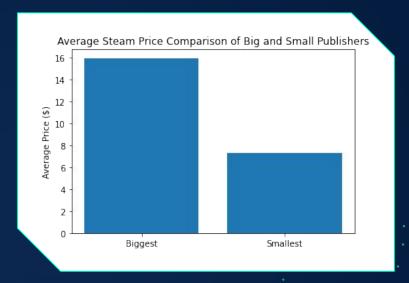
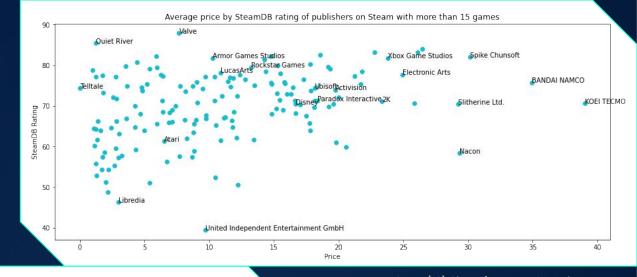
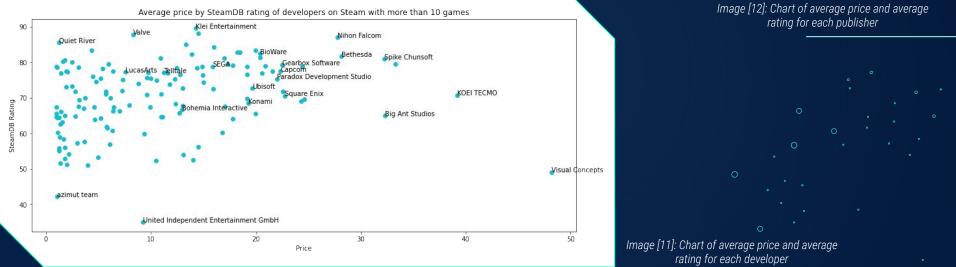


Image [8]: Chart of average price for 30 biggest publishers and 30 smallest publishers

### RELATION AVERAGE RATING AND AVERAGE PRICE





## POPULARITY, RATING AND PRICE FOR 200 MOST POPULAR INDIE GAME

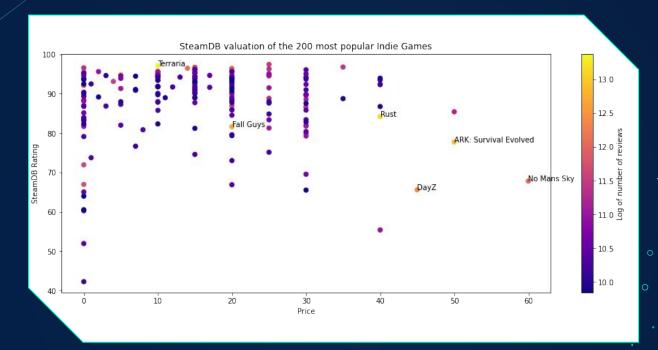


Image [14]: Chart of the relation between rating and price for the 200 most popular games, with an heatmap repreenting the popularity, calculated as log of number of total reviews.



### CHOOSING THE NUMBER OF TAGS

### R SQUARED ANALYSIS

In order to linearly regress we had to first decide on how many tags were to be selected as features, and to determine this we used R<sup>2</sup> measures.

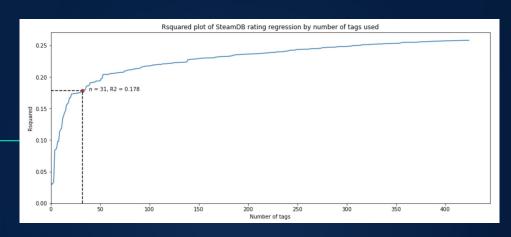
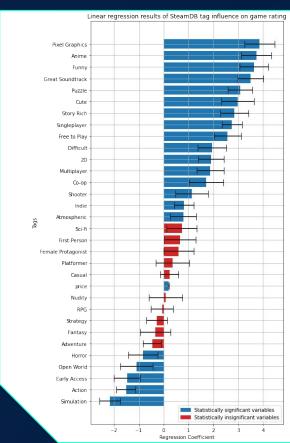


Image [9]: R squared in function of the tags number

### LINEAR REGRESSION COEFFICIENTS







### **ROOM FOR IMPROVEMENT**

- → Current model brings R<sup>2</sup> to only 0.25
- → Rating histogram and regression residuals not normally distributed
- → Disconsidered games' rating and price evolution over time
- → Tags are user attributed

