

MarketWatch

Videogames are a bigger industry than movies and North American sports combined, thanks to the pandemic

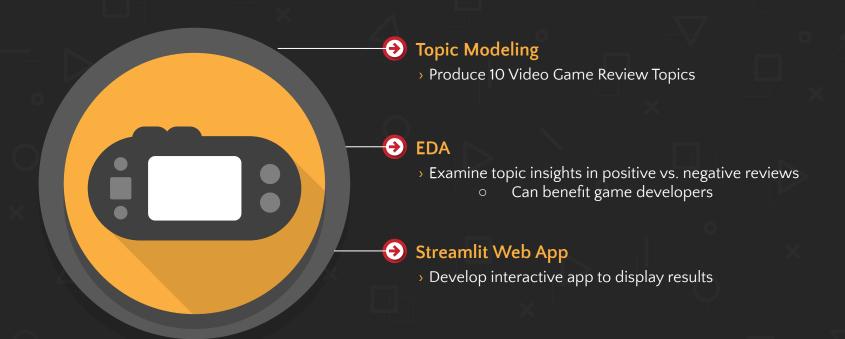
Last Updated: Jan. 2, 2021 at 10:27 a.m. ET First Published: Dec. 22, 2020 at 11:36 a.m. ET

global film industry reached \$100 billion in revenue

American sports would bring in more than \$75 billion in 2020.

gaming sales rise 20% to nearly \$180 billion

Goals:



Data:

2010 - 2015 Amazon Video Game Review Dataset from Kagge



Data Cleaning:

- Drop nulls
- Drop (5) extraneous columns
- Drop documents with review length < 30
 - e.g. ("Great", "Five Stars", "Awesome Game")

	Product Title	Star Rating	Review Text
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Design

Topic Modeling

(Game Content): story, level, character, world, combat (Platform Availability): amazon, download, steam, code, buy, origin, install

(Online): play, Online, ea, Servers, mode, players, pc

(Critique): like, feel, much, people, think, things, better, see, bad, feels

(Negative Feedback): get, buy, go, money, want, back, work, things, need

(Positive Feedback): great, story, graphics, love, price, best, deal, gameplay, recommend

(Downloadable Content): new, expansion, content, version, dlc, world, pack, original, better, release, features

(Worthwhile): time, first, every, long, hours, back, take, go, money, times, find, around, try, going, start

(Difficulty): fun. much, love, easy, little, challenging, levels

(Performance): good, graphics, pretty, fps, bad, pc, sound, controls

Pick a Game Title to Show Review Info About

Game Titles

Tomb Raid

Tomb Raider

Tomb Raider Underworld

Tomb Raider: Underworld [Downlo...

Tomb Raider: Anniversary [Downlo...

Tomb Raider: Legend [Online Game...

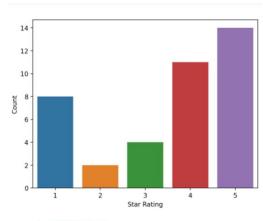
Tomb Raider Experience Pack [Dow...

Tomb Raider Game of the Year [Onl...

Amazon Video Game Reviews

Show Review Info

Review Info for Tomb Raider Underworld



Average Rating 3.5384615384615383

Positive Review Topics (4 & 5 Stars)

positive_feeback 0.0348

Pick a Game Title to Show Review Info About

Game Titles

Tomb Raider

Positive Review Topics (4 & 5 Stars)

positive feeback 0.0352 0.0346 game content performance 0.0321 critique 0.0251 online 0.0229 worthwhile 0.0175 difficulty 0.0164 negative feedback 0.0132 0.0121

Negative Review Topics (1 & 2 Stars)

0.0087

platform availability

	0
worthwhile	0.0376
game content	0.0342
negative feedback	0.0342
platform availability	0.0338
online	0.0296
performance	0.0185
critique	0.0169
positive feeback	0.0159
difficulty	0.0079
dlc	0.0039

Pick a Game Title to Show Review Info About

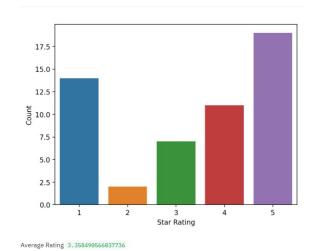
Game Titles

Tropico 5

Amazon Video Game Reviews

Show Review Info

Review Info for Tropico 5

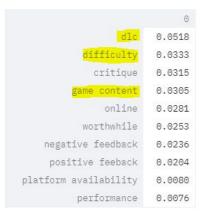


Pick a Game Title to Show Review Info About

Game Titles

Tropico 5

Positive Review Topics (4 & 5 Stars)



Negative Review Topics (1 & 2 Stars)

	0
platform availability	0.0303
online	0.0217
negative feedback	0.0174
performance	0.0157
game content	0.0060
critique	0.0050
difficulty	0.0046
dlc	0.0043
worthwhile	0.0013
positive feeback	0.0012



Future Work

- Deploy web app to Heroku
- Adapt code to update new Amazon reviews daily
- Scattertext



