Predicting User Rating of a Hip Hop Album



Why hip hop?





2020 BILLBOARD MIDYEAR CHARTS

Powered by Nielsen Music/MRC Data

TOP 10 ARTISTS BY TOTAL CONSUMPTION

	ARTIST	TOTAL ALBUM- EQUIVALENT CONSUMPTION	ALBUM SALES	DIGITAL SONGS	ON-DEMAND AUDIO STREAMS	ON-DEMAND VIDEO STREAMS
1	DRAKE	2.460 million	57,000	390,000	3.019 billion	369.416 million
2	THE WEEKND	2.175 million	439,000	664,000	2.134 billion	315.775 million
3	LIL UZI VERT	1.966 million	28,000	116,000	2.720 million	290.152 million
4	POST MALONE	1.886 million	93,000	586,000	2.290 billion	302.237 million
5	YOUNGBOY NEVER BROKE AGAIN	1.886 million	20,000	119,000	2.422 billion	772.237 million
6	EMINEM	1.868 million	315,000	552,000	1.854 billion	560.886 million
7	LIL BABY	1.725 million	33,000	281,000	2.123 billion	490.889 million
8	BILLIE EILISH	1.676 million	283,000	652,000	1.736 billion	405.816 million
9	RODDY RICCH	1.640 million	19,000	271,000	2.074 billion	576.671 million
10	DABABY	1.530 million	26,000	311,000	1.965 billion	369.931 million

•	TOP '	10 AI	RIII	MS			

	ARTIST	TITLE	TOTAL ALBUM- EQUIVALENT CONSUMPTION	ALBUM SALES	SONG SALES	ON-DEMAND AUDIO STREAMS	ON-DEMAND VIDEO STREAMS
1	LIL BABY	My Turn	1.467 million	31,000	249,000	1.775 billion	402.974 million
2	THE WEEKND	After Hours	1.423 million	407,000	527,000	1.246 billion	105.747 million
3	LIL UZI VERT	Eternal Atake	1.374 million	24,000	82,000	1.896 billion	141.922 million
4	RODDY RICCH	Please Excuse Me for Being Antisocial	1.352 million	18,000	254,000	1.787 billion	248.535 million
5	POST MALONE	Hollywood's Bleeding	1.140 million	60,000	477,000	1.370 billion	127.477 million
6	BAD BUNNY	YHLQMDLG	927,000	59,000	79,000	1.088 billion	175.246 million
7	EMINEM	Music to Be Murdered By	855,000	226,000	224,000	779.543 million	121.024 million
8	JUSTIN BIEBER	Changes	854,000	187,000	381,000	796.529 million	86.629 million
9	BTS	Map of the Soul: 7	842,000	552,000	388,000	347.616 million	51.220 million
10	BILLIE EILISH	When We All Fall Asleep, Where Do We Go?	798,000	198,000	268,000	781.077 million	81.844 million

Why hip hop?





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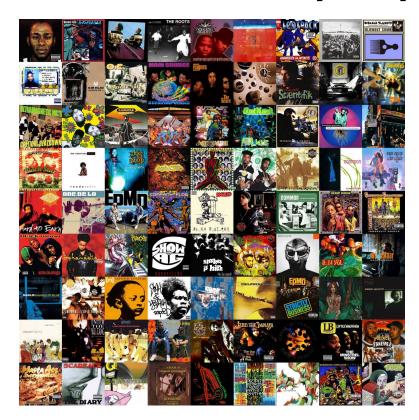
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TOP 10 ALBUMS (Album sales + TEA + on-demand SEA)

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What makes a hip hop album?

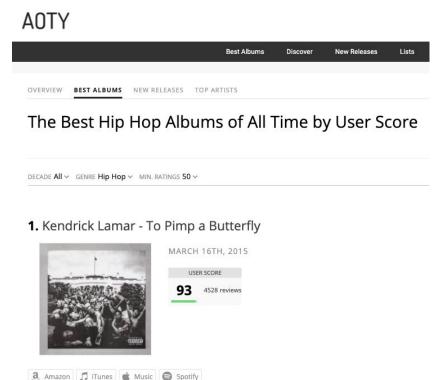


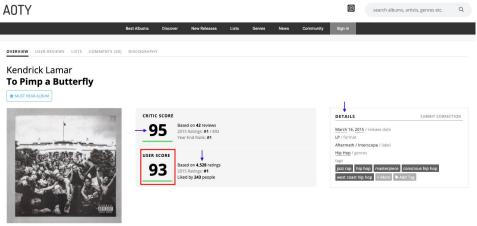
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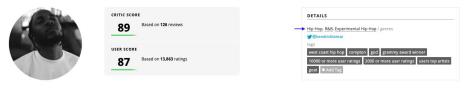


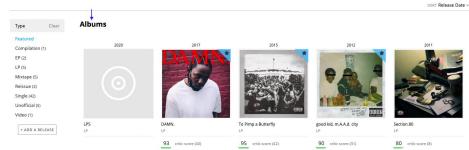
Methodology





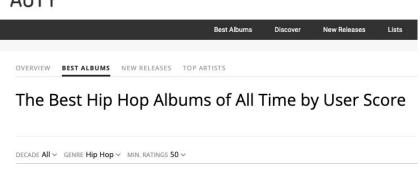




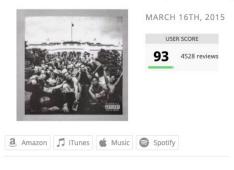


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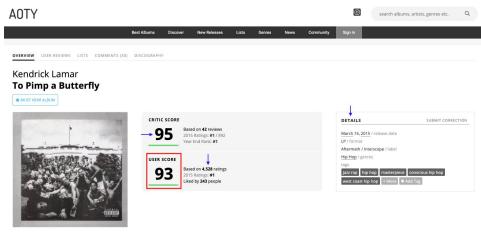
AOTY



1. Kendrick Lamar - To Pimp a Butterfly

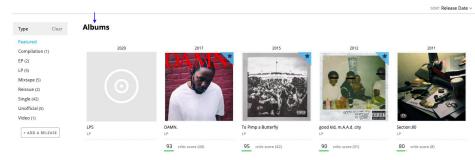






Kendrick Lamar





Methodology

AOTY





The Best Hip Hop Albums of All Time 1181 hip hop albums

100% with user scores

50+ user ratings



1. Kendrick Lamar - To Pimp a Butterfly



Target: **User score** (out of 100)













Model

Album critic score
Years since release
Trap rap
Artist Spotify popularity
Number of user ratings
Pop rap

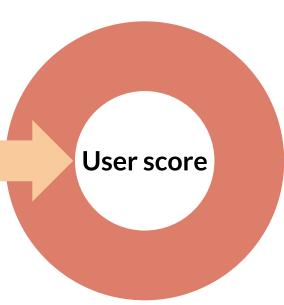
<u>Album</u>

Format
Label
Number of tracks/duration
Explicit content
Musical features
Featuring other artists
Debut
Number of user ratings

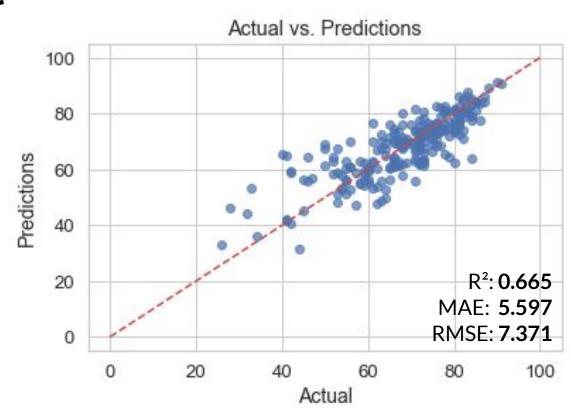
Spotify popularity

Artist

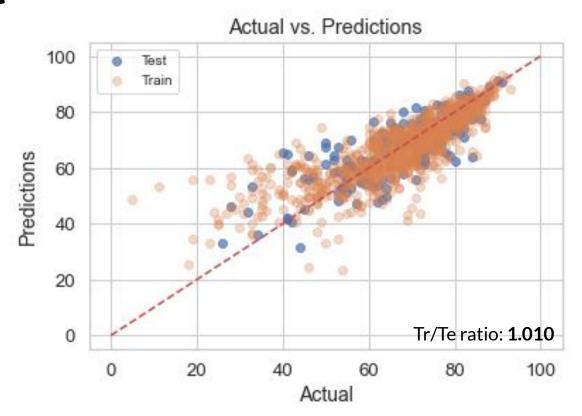
Number of user ratings Years active Genres/styles Discography



Model



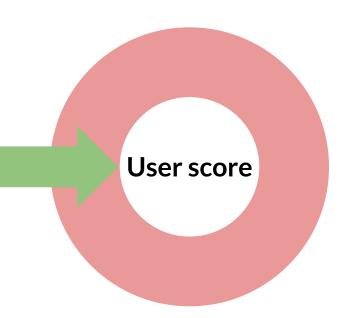
Model



Conclusions

Pop rap

Album critic score
Years since release
Trap rap
Artist Spotify popularity
Number of user ratings



Conclusions

Album critic score

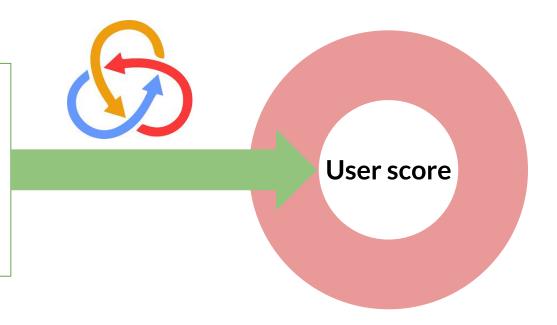
Years since release

Trap rap

Artist Spotify popularity

Number of user ratings

Pop rap

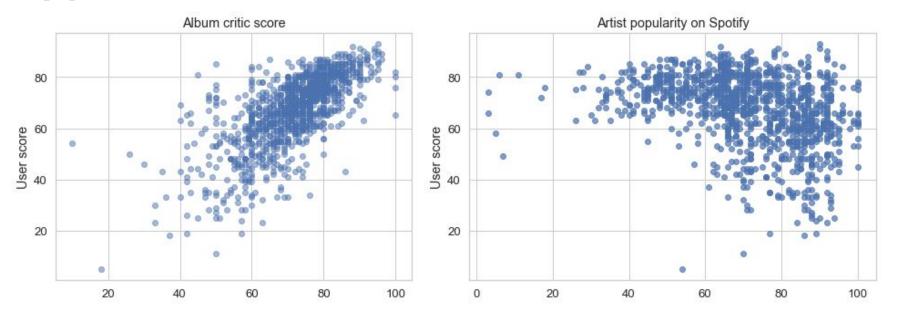


Future Work

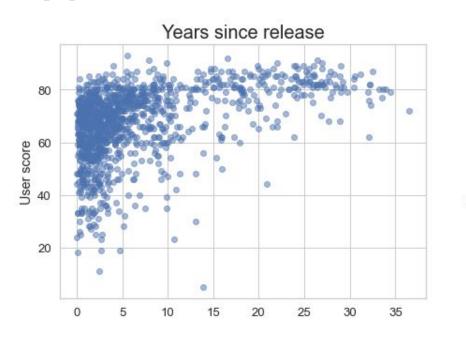
- Explore interaction terms
- Explore correlations
- Further analysis of outliers
- Other data:
 - Artist features
 - "Sophomore slump"
 - Posthumous
 - Trends

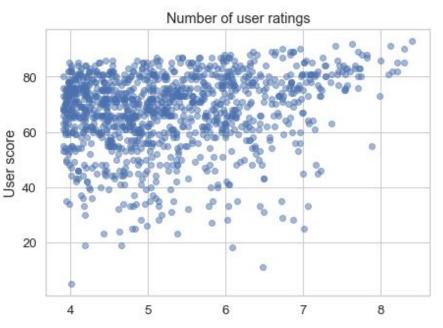
Thank you!

Appendix: Correlations



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Appendix: Residual Analysis

