

BILLBOARD ALBUM DATA

SCRAPING YEARS OF WEEKLY CHART RANKINGS



WHY BILLBOARD?

- **INDUSTRY STANDARD**
- **LONGEVITY**
- **GRANULARITY**
- **I LIKE MUSIC**



WEB SCRAPING

DETAILS:

- USED SCRAPY
- TWO CHARTS = TWO SPIDERS
- 2626 WEEKS OF DATA = 500,000+ ROWS

CHALLENGES:

- URL PATTERN – STRING VS. DATETIME
- NON-UNIFORM OBJECT PATTERN
- THEY CHANGED THE XPATH!

<https://www.billboard.com/charts/billboard-200/2018-08-04>

BILLBOARD 200
The week of August 4, 2018

1
Scorpion
Drake
4 WEEKS AT NO. 1
4 WEEKS ON CHART

2
beerbongs & bentleys
Post Malone

3
Mamma Mia!: Here We Go Again
Soundtrack

BILLBOARD TOP 200



BILLBOARD TOP 200

WHAT EXACTLY IS THIS CHART?

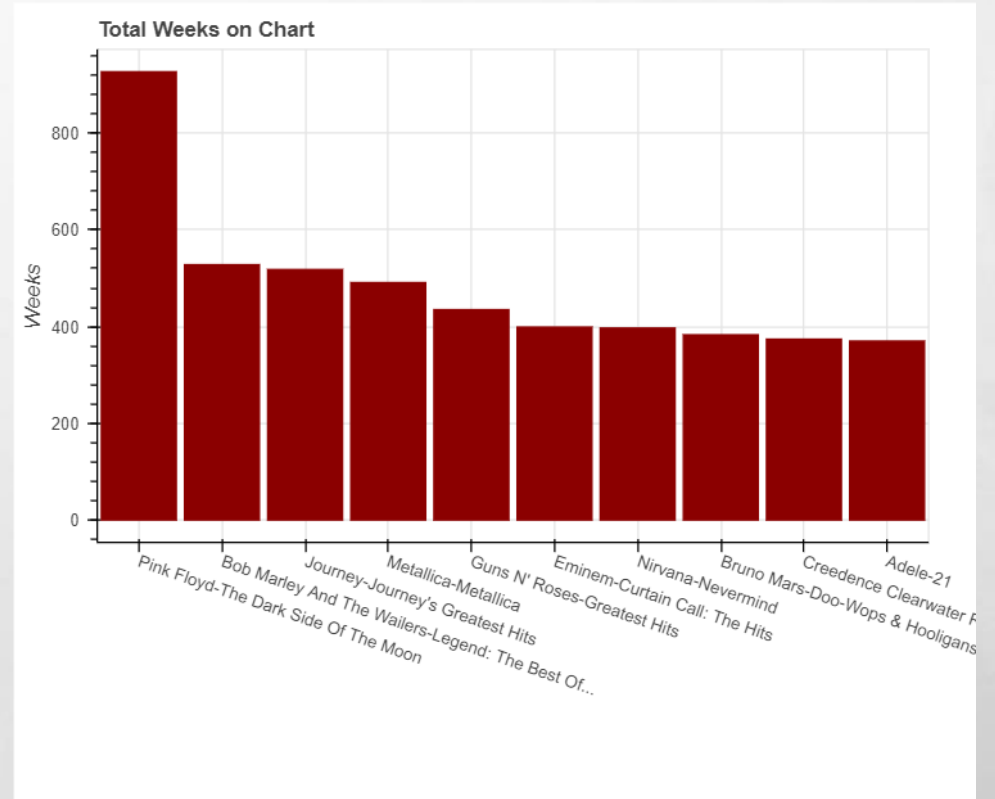
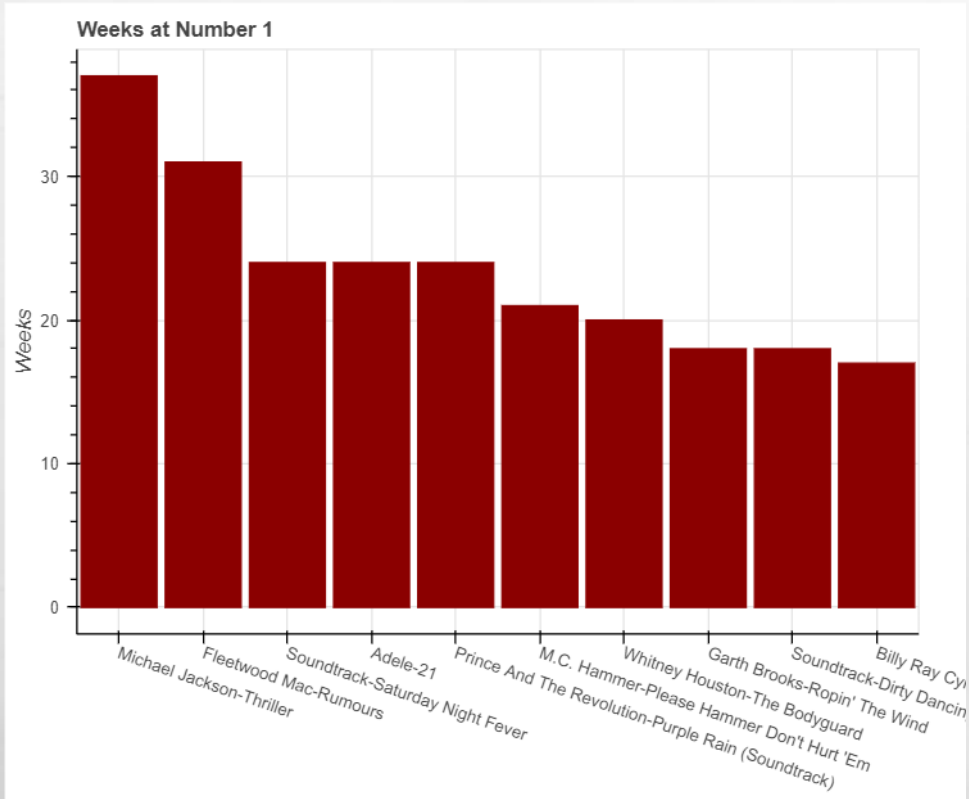
- **TOP 200 ALBUMS**
- **START DATE: AUGUST 17, 1963**

PER BILLBOARD'S WEBSITE:

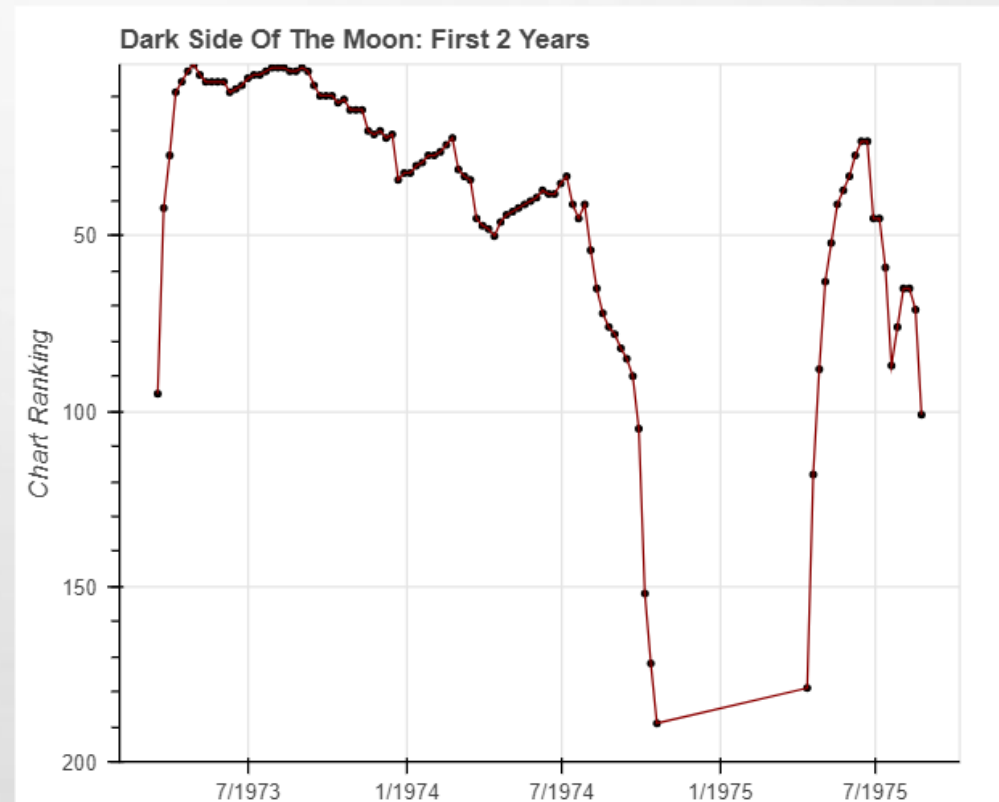
- **"THE BILLBOARD 200 CHART RANKS THE MOST POPULAR ALBUMS OF THE WEEK, AS COMPILED BY NIELSEN MUSIC, BASED ON MULTI-METRIC CONSUMPTION (BLENDING TRADITIONAL ALBUM SALES, TRACK EQUIVALENT ALBUMS, AND STREAMING EQUIVALENT ALBUMS)."**



WHAT'S THE BEST ALBUM OF ALL TIME?

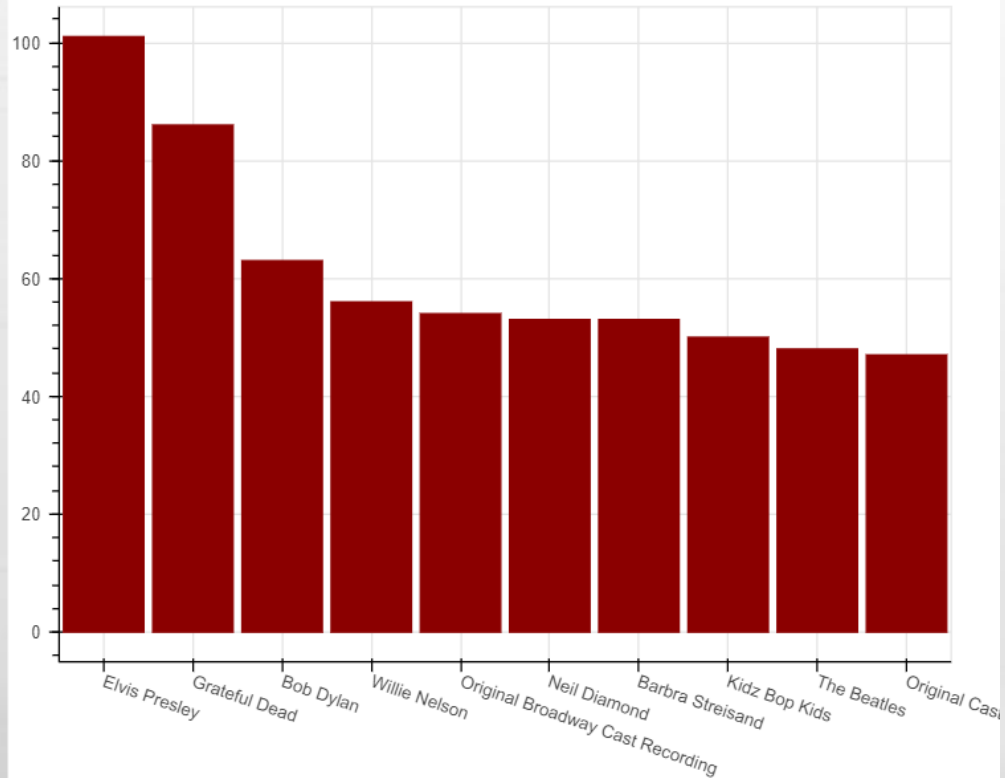


TOP ALBUMS' CHART MOVEMENT

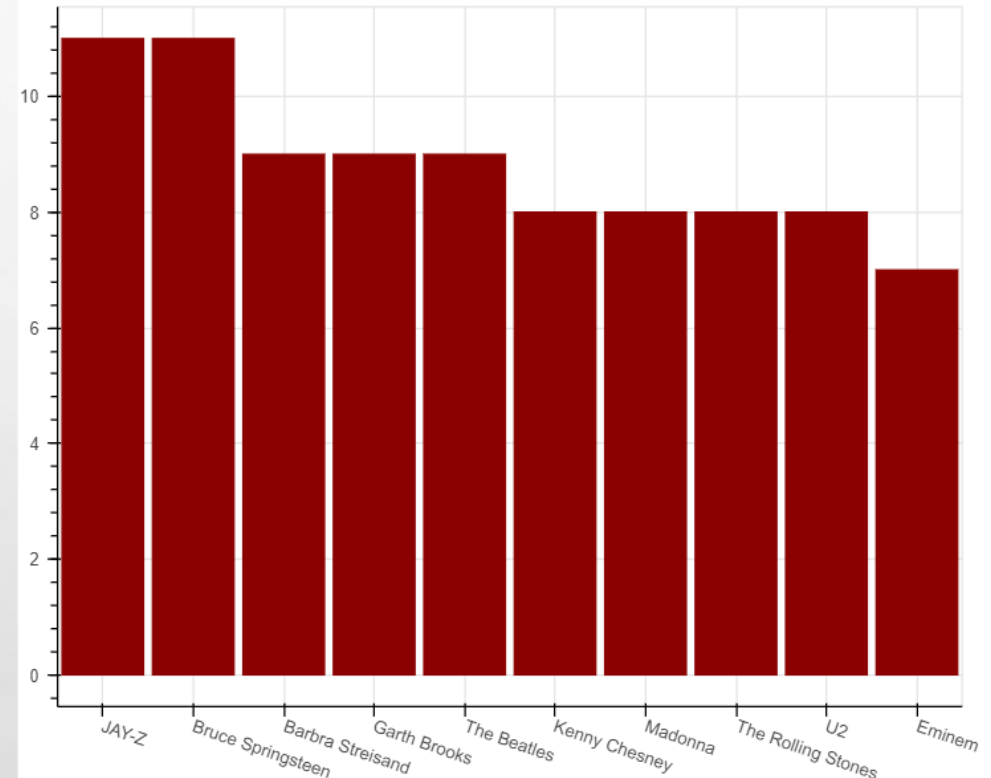


WHO MAKES THE BEST ALBUMS?

Artists with the most entries on Top 200



Most Albums to Reach #1



TOP CATALOG ALBUMS



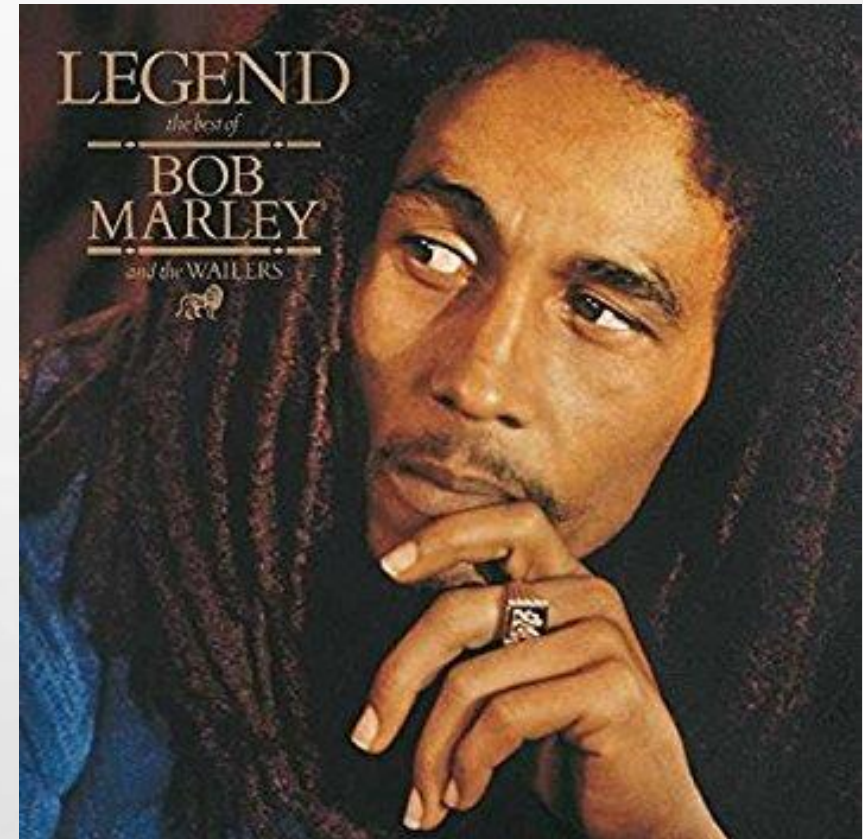
TOP CATALOG ALBUMS

WHAT EXACTLY IS THIS CHART?

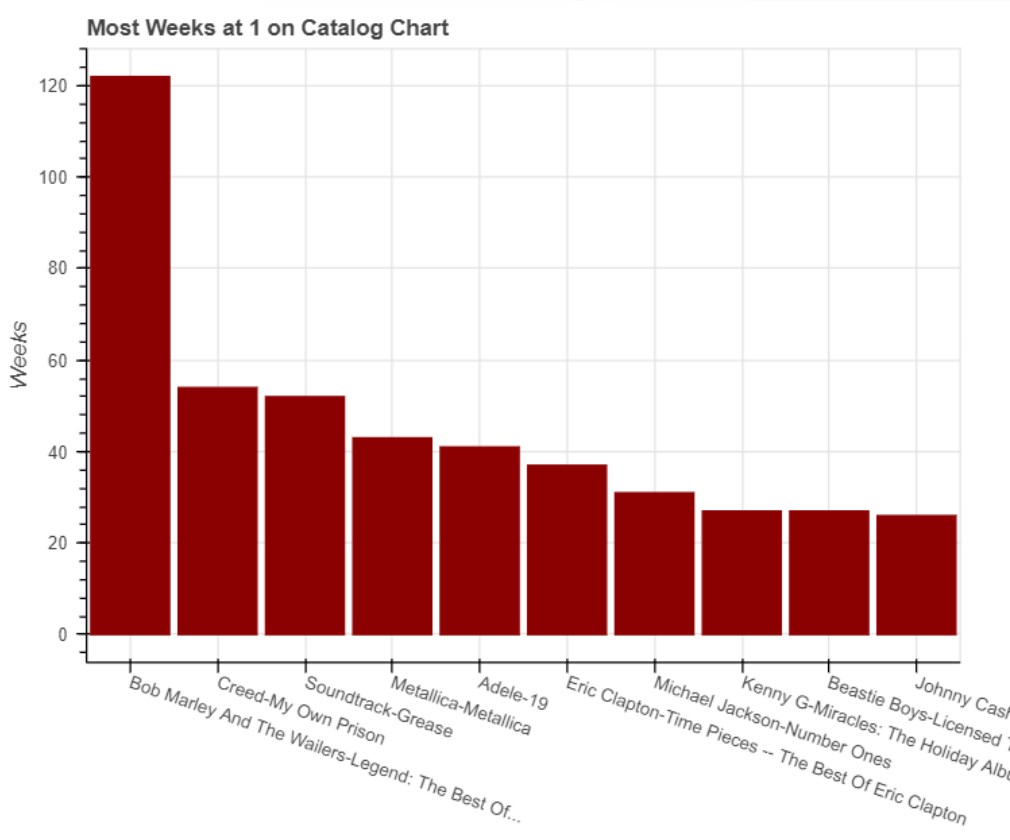
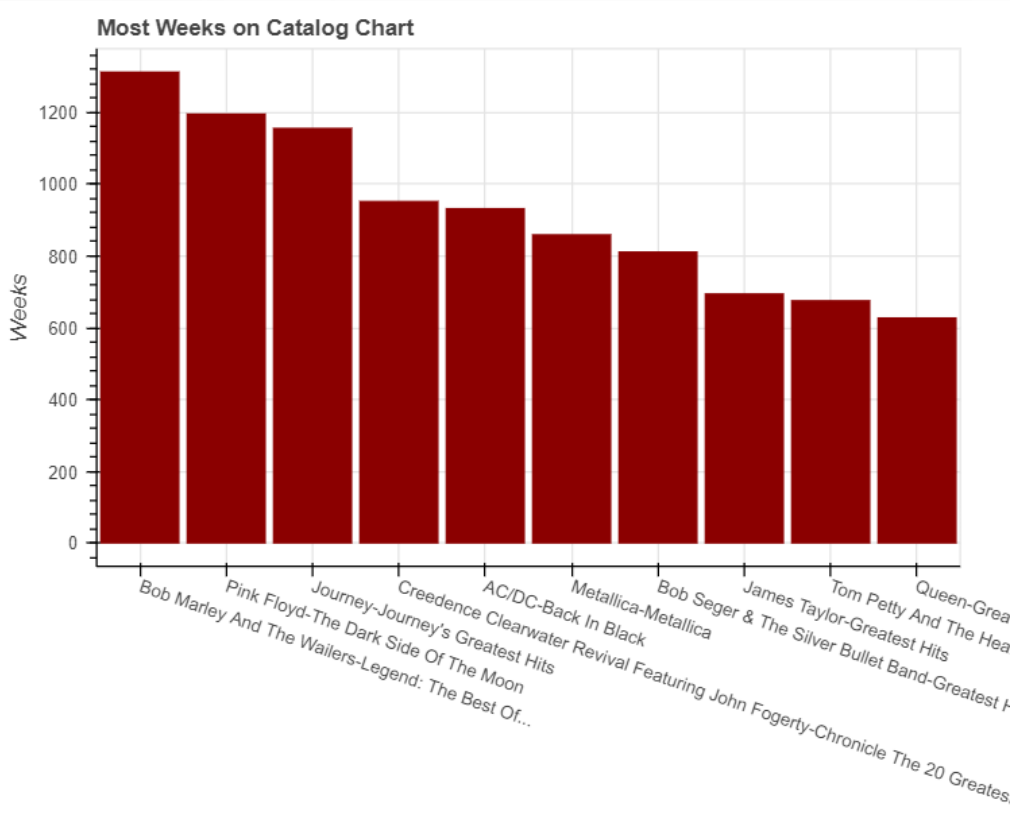
- **TOP 50 CATALOG ALBUMS**
- **START DATE: MAY 25, 1991**

PER BILLBOARD'S WEBSITE:

- **"TOP CATALOG ALBUMS RANKS THE MOST POPULAR ALBUMS ACROSS ALL GENRES THAT ARE AT LEAST 18-MONTHS OLD AND HAVE FALLEN BELOW NO. 100 ON THE BILLBOARD 200, AS COMPILED BY NIELSEN MUSIC, BASED ON MULTI-METRIC CONSUMPTION (BLENDING TRADITIONAL ALBUM SALES, TRACK EQUIVALENT ALBUMS, AND STREAMING EQUIVALENT ALBUMS)."**

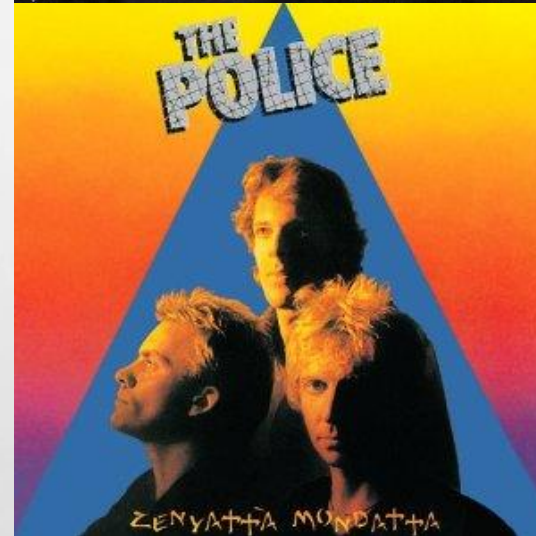
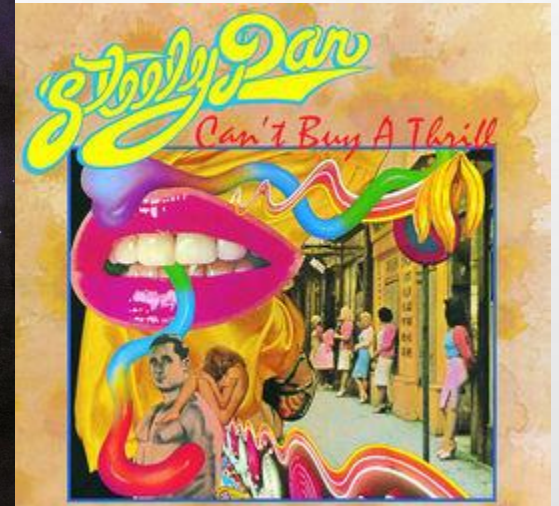
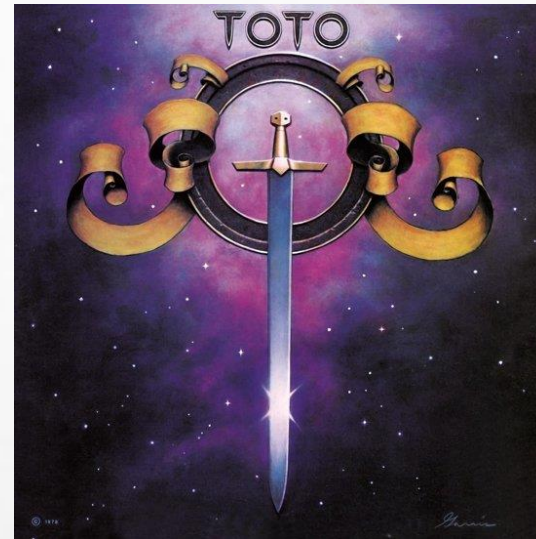


BEST CHARTING CATALOG ALBUM



RELATING TO TOP 200

- **2,020 OF THE 2,368 ALBUMS ALSO APPEARED ON TOP200 (85.3%)**
- **OF THE 348 THAT DID NOT:**
 - **20 REACHED NUMBER 1 ON THE CATALOG CHART**
 - **18 HAVE BEEN ON THE CATALOG CHART FOR 52 WEEKS OR MORE**
 - **67 FIRST APPEARED ON THE CATALOG CHART AFTER JAN 1, 2010**



FUTURE ANALYSIS

- **ARTIST OVERLAP BETWEEN THE TWO DATASETS**
- **SEASONAL TRENDS**
- **“GREATEST HITS” VS. STUDIO ALBUMS VS. LIVE RECORDINGS**
- **CONCURRENT CROSS-LISTING**
- **CROSS-REFERENCE OTHER BILLBOARD CHARTS**
- **MORE TECHNICAL ANALYSIS OF CHART MOVEMENT OVER TIME**

SCRAPE MORE DATA:

- **RECORD LABEL**
- **STUDIO RECORDED IN**
- **RECORDING BUDGET**
- **RECORDING MUSICIANS**
- **SONGWRITER CREDITS**