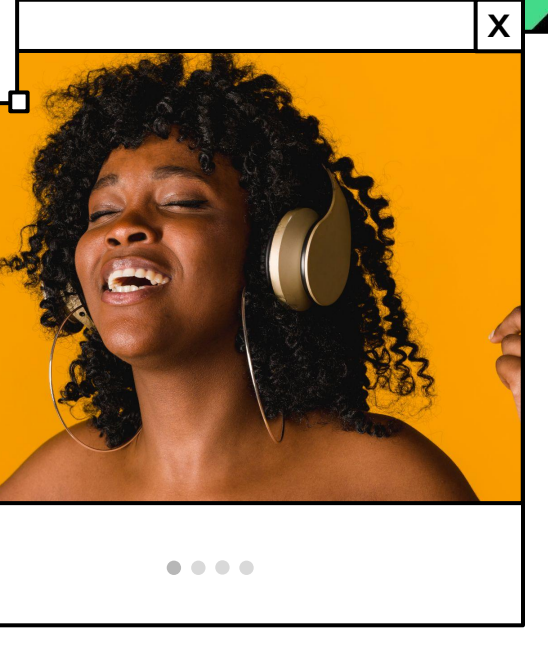
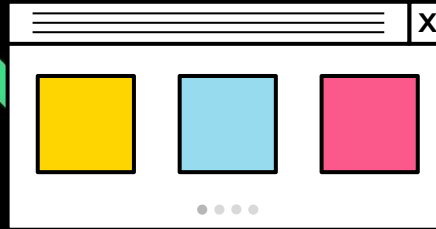
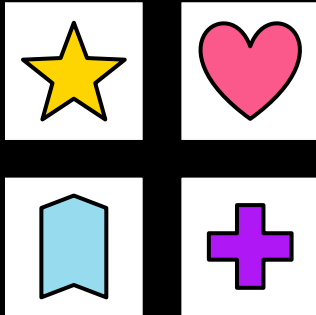
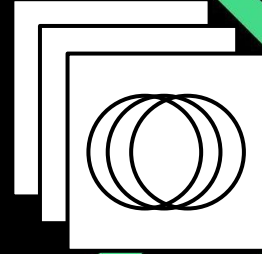


# Spotify Music Analytics & Recommendation system

Khaled El Bastawisy 201800029  
Mohamed Khalil 201801898



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# Most Popular Artists 2011 → 2017

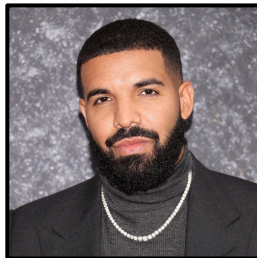
4th



2nd



1st



3rd



5th



X

Rihanna

Kanye  
West

Drake

...

Kendrick  
Lamar

The  
Weeknd



Home



# Most Popular Artists 2011 → 2017

9th



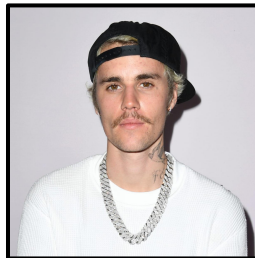
7th



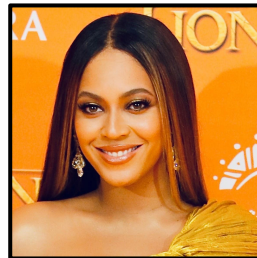
6th



8th



10th



J. Cole

Ed  
Sheeran

Eminem

...

Justin  
Bieber

Beyoncé

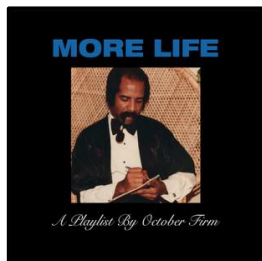


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# Most Popular Albums 2011 → 2017

4th



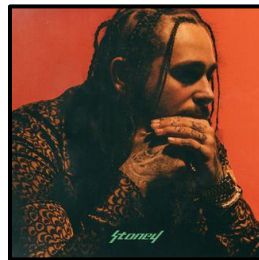
2nd



1st



3rd



5th



X

More Life

Greatest  
Hits

Views

Stoney

Coloring  
Book

...



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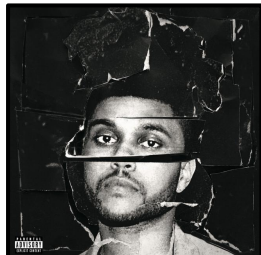


# Most Popular Albums 2011 → 2017

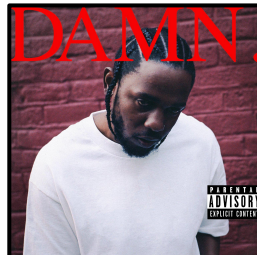
9th



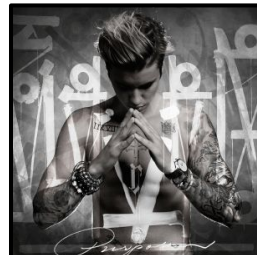
7th



6th



8th



10th



**American  
Teen**

**BBTM**

**DAMN**

**Purpose**

**Culture**

...

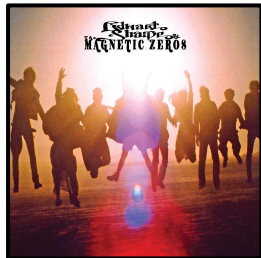
← Home →

# Most Popular Songs 2011 → 2017

4th



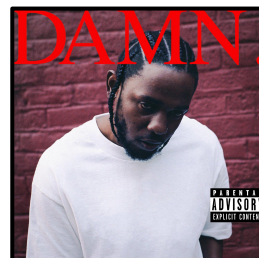
2nd



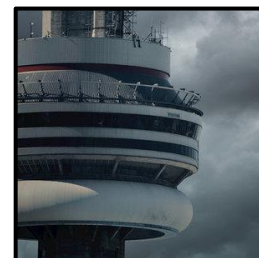
1st



3rd



5th



Roses

Home

Closer

HUMBLE

One Dance



← Home →



# Most Popular Songs 2011 → 2017

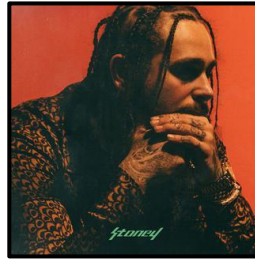
9th



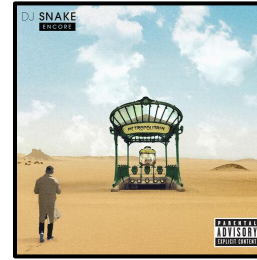
7th



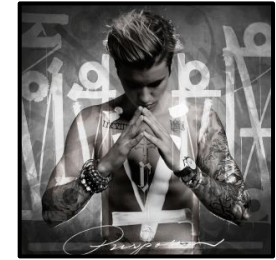
6th



8th



10th



X

Ride

Broccoli

Congratulations

Let me  
Love you

Sorry

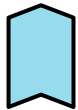
...



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# Track Recommendation - Playlist Continuation



## User Input

- **On Melancholy Hill - Gorillaz**
- **Feels Like We Only Go Backwards - Tame Impala**
- **Stolen Dance - Milky Chance**
- **Clint Eastwood - Gorillaz**
- **Breezeblocks - alt-J**

Common Genres

Alternative Rock | Pop/Rock | Indie Music

## Suggestions

1. Tongue Tied - Grouplove
2. Cigarette Daydream - Cage The Elephant
3. Why'd You Only Call Me When You're High? - Arctic Monkeys
4. Someday - The Strokes
5. Riptide - Vance Joy
6. Midnight City - M83
7. Left Hand Free - alt-J
8. Two Weeks - Grizzly Bear

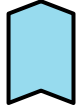
...



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# Track Recommendation - Artist Based

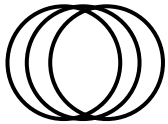


## User Input

- **Radiohead**
- **The Strokes**
- **Arctic Monkeys**

Common Genres

Progressive Rock | Alternative Rock | Punk Rock



## Suggestions

1. On Melancholy Hill - Gorillaz
2. Breezeblocks - alt-J
3. Riptide - Vance Joy
4. Pumped Up Kicks - Foster the People
5. Heart-Shaped Box - Nirvana
6. Cigarette Daydreams - Cage The Elephant
7. Goopy - Glass Animals

...



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# Album Recommendations

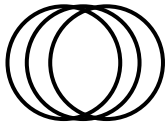


## User Input

- **Bohemian Rhapsody - Remastered 2011 - Queen**

Common Genres

70s Rock | Hard Rock | Classic Rock



## Suggestions

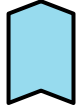
1. A Night At The Opera - Queen
2. Appetite For Destruction - Guns N' Roses
3. Slippery When Wet - Bon Jovi
4. Abbey Road - The Beatles
5. Back In Black - AC/DC
6. The Game - Queen
7. Jazz - Queen
8. Boston - Boston
9. News Of The World - Queen ...



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# Artist Recommendations

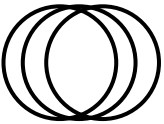


## User Input

- No Surprises - Radiohead

Common Genres

Alternative Rock | Electronic Rock | Post Punk



## Suggestions

1. Coldplay
2. Red Hot Chili Peppers
3. Nirvana
4. Muse
5. The Strokes
6. Pixies
7. Tame Impala
8. The Smashing Pumpkins
9. Mac Demarco
10. The Cure



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# Artist-Based Playlist Generator

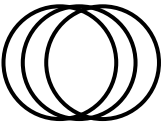


## User Input

- **Radiohead**
- **The Strokes**
- **Arctic Monkeys**

Common Genres

Alternative Rock | Electronic Rock | Post Punk



## Suggestions

1. Fluorescent Adolescent - Arctic Monkeys
2. Red Hot Chili Peppers
3. Last Nite - The Strokes
4. Creep - Radiohead
5. 505 - Arctic Monkeys
6. Karma Police - Radiohead
7. Reptilia - The Strokes
8. Machu Picchu - The Strokes
9. 2 + 2 = 5 - Radiohead

...



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# Conclusion

- **Collaborative Filtering is a potent method for recommendations when lacking information regarding genre and audio features.**
- **The uses of such a recommendation system can be used for suggesting tracks, albums, and artists.**
- **Different filtering and ordering techniques can be used to tune results and differentiate from competitors**

# Thanks!

Do you have any questions?

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s-mohamed.khalil@zewailcity.edu.eg

