

Explorify

Presented by: Inna Ivanova and Jonatan Engstad CPSC 547: Information Visualization

Agenda

- 1. Motivation
- 2. Explorify
- 3. Demo
- 4. Limitations
- 5. Q&As



Motivation

- Spotify Platform
 - The most popular platform for streaming music with millions of users
 - Provides custom visualization for their users data
- Spotify Year Wrapped Report
 - Allows Spotify users to view a compilation of data about their activity on the platform
 - It's only at the end of the year
 - Fairly limited with no interactivity





Post Malone Juice WRLD Migos Travis Scott 5 Seconds of Summer

Top Songs rockstar Solo (feat. Demi Lovato) In My Feelings Taste (feat. Offset) Échame La Culpa

Minutes Listened **70,061**

Top Genre **Hip Hop**

Colour By Artist Genres Artist Features Artist Timeline		Sorting Criteria Streaming Time	Artist Popularity	Alpha
Position By Artist Genres Artist Features Artist Timeline		Vampire Wookond - Ben Webster -		#1
Number of Artists to Display		Scott Henderson Vulfpeck- The Doobie Brothers-	#5	#3 #4
Display Attributes Artist Names		The Waterboys -	#6	
Legend Artist streaming time	WHAT IS	Steely Dan - Esbjörn Svensso	#9	
Artist genres Genres in common Proportion of genres shared		The Mars Volta - Prince -	#10	
Number of genres shared Similarity by musical qualities	EXPLORIFY?	Biako Milis - CHIC - Fleotwood Mac -	#12	
		Fronk Zappa	#14	
Daily Listening Pattern	0	Uncle Acid & Th Devendra Banhart	#16	
Sep Oct Nov D Su Image: Sep (Sep (Sep (Sep (Sep (Sep (Sep (Sep	Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Image:	Lovonora Bannan Todd Tarjo Paramoro Arcade Firo	#18 #19 #20	
Detailed Listening History per Day				



Why is Explorify?

- Allows the user to interact with and explore their personal streaming history
- Using Explorify, the user will:
 - Find interesting patterns and facts
 - Discover trends
 - Trigger memories
- In general: geek out about the data



Building Explorify: Data Collection



1. Request data on your Spotify account page. Thanks GDPR!





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- 2. Wait



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Explorifu

3. Receive 1 year detailed streaming history*

* It is possible to request data for entire account duration, but data is very sparse/fragmented



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- 1. Request data on your Spotify account page. Thanks GDPR!
- 2. Wait
- 3. Receive 1 year detailed streaming history*
- 4. Retrieve additional data from the Spotify Web API





Building Explorify: Creating Explorify



- The initial idea(s):
 - Streamchart, track clustering, listening pattern analysis, ...

4. Data and Task Abstractions

There are a total of 5 tasks we will be visualizing within the Explorify platform: Artist-Genre Network, Track Clustering by Audio Features, Artists Stream-graph, Top Artist Over Time and Daily Listening Pattern.

- The initial idea(s)
 - Streamchart, track clustering, listening pattern analysis
- Scrapping the initial ideas
 - Very many ambitious tasks, have to prioritize

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- The final product takes form
 - Settle on the most promising idea: the artist-genre network.

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 - Iterate

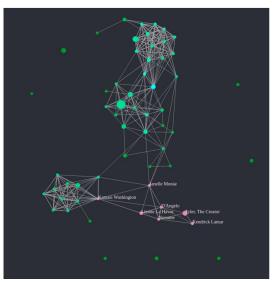
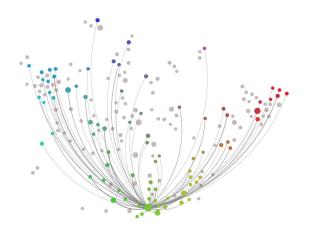
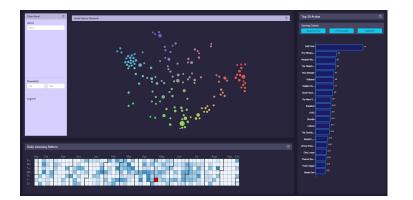


Figure 1. Artist-genre network visualization

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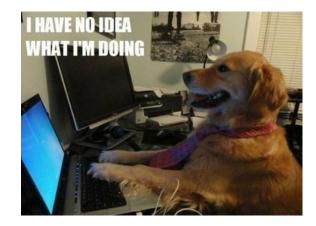


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The Process

- The initial idea(s)
 - Streamchart, track clustering, listening pattern analysis
- Scrapping the initial ideas
 - Very many ambitious tasks
- The final product takes form
 - \circ $\hfill Settle on the most promising idea: the artist-genre network.$
 - Iterate, iterate and iterate some more
- In parallel: Learn d3, explore and process the data



The Final Product: Explorify

DEMO



Limitations & Future Work

Limitations 1: Simple Technical Limitations

- Transitions could be better
- Code is messy
- Podcasts are not filtered out
- Some tracks have had slight name changes, making it hard to properly identify them
- UI is not responsive, and wastes too much space
- Some bugs present
- Question mark icons do nothing



Limitatons 2: Larger Limitations

- The tool is not very intuitive and the user must do some work before they can see interesting results
- Genres are not displayed very well
 - Possible solution: Multigraph with genres as nodes?

Future Work

- <u>User testing</u>
- Select multiple days in calendar
- Add zooming to timeline chart
- More edgemap options!
 - More edge types: related artists, shared sessions, ...
 - More color scales: Artist popularity, ...
- Fix the technical issues







What is Explorify?

- A dashboard visualizing your Spotify streaming history
- Several Interactive and interconnected views
 - Main view: edgemap with artists as nodes
 - With control panel
 - Several supporting views:
 - Calendar heatmap
 - Popularity barchart
 - Timeline Gantt chart

Jonatan's Storage Room

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STEP 1 Click the button to start the process of collecting your data.

Request

There are a total of 5 tasks we will be visualizing within ne Explorify platform: Artist-Genre Network, Track Clustering by Audio Features, Artists Stream-graph, Top Artist Over Time and Daily Listening Pattern.



WEB API