MelodyBox Documentation

# Executive Summary

Discover, track, and own your streaming history. Allow user to understand better their own listening and discovery.

## General Method:

* Get Streaming History
* Standardize streams & tracks
* Expand info about artists and genres
* Load to database
* View in Power BI

# Methodology Detail

## Getting Streaming History:

There are 3 ways currently to do this:

### API call for recently played data

* **# of Tracks**: Last 50 tracks played
* **Track Duration Played**: Track must be listened to in entirety (given uncorrupted account)
* **Context**: Yes (given uncorrupted account)
* **Delivery**: Track result in standard Spotify JSON format

### Request Spotify Account Data

* **# of Tracks**: 1 Year
* **Track Duration Played**: Partial listens available
* **Context**: No
* **Delivery**: Track results in a collection of JSON files

### Request Spotify Extended Streaming History

* **# of Tracks**: All time since getting premium
* **Track Duration Played**: Partial listens available
* **Context**: No
* **Delivery**: Heavily condensed track data in a collection of JSON files

## Transforming / Normalizing Streams

What if you could view your music streaming trends over the past 7 years?

Spotify released the capability to download your “Extended Streaming History”, which goes all the way back to the beginning of your subscription. I figured, this is a perfect opportunity to flex my data skills

**What building a data pipeline from scratch can teach you**

Python

Database Admin

API

Building code then rebuilding it

Putting database in the cloud