

Music & the Internet

MUMT301

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Plan

- Assignment 6 review
- Final project proposal presentation guidelines
- Project proposal draft round
- More Music APIs: LastFM and Echonest Labs
- In-class exercise
- Last assignment

Assignment 6 review

- <https://mumt301.github.io>

Final project proposal

The final project proposal consists on:

1. The submission of a written **project proposal**.

- You will write the abstract of your project, describing the main **goal** of the project, dividing it into **sub-goals**, and arranging them into a **timeline**.
- You must also present **references**. These may be **bibliographical**, **code** examples, **music** examples, **software** applications, or any kind of **creative** or **intellectual work** that you think is relevant for the development your project.
- The report should be 2 pages long, 11 pt, single-spaced.

Final project presentation guidelines

2. The presentation of your project proposal.

- You will present your project in class by means of a powerpoint-style slide show or an HTML webpage.
- You will describe your **goals** and **sub-goals**, and will present the **references** you consider relevant for doing your project.
- The presentation will be **25 minutes** (15-minute presentation, 10-minute round for questions).

The final project proposal presentation will be on Tuesday, 3 December

The final project submission is due on Monday, 16 December

Final project examples

Types of final project

- Web-based application with description (2- to 4-page report)
- Music project with description (2- to 4-page report)
- Research paper (6 to 10 pages)

Examples:

- Artist art badge generator based on a user's listening history
- Web-based musical instrument or controller
- Artist recommendation machine
- Substantial music composition (20-30 min) strictly using web resources
- Comprehensive comparison of on-demand music streaming services
- Web-based database of music venues in Montréal

Final project proposal examples

SOUNDCLOUD TWO- TRACK MIXER

IDEA

- A simple two deck audio mixer
- Allow user to search through Soundcloud tracks and play two tracks independently
- Implement an interactive crossfader to switch between them



TWO DECK MIXER

**"Traktor Kontrol
S2"**

GOALS

- Incorporate two audio player widgets that allow both searching and playing of soundcloud tracks.
- Incorporation of a crossfader
- Incorporation of two volume knobs

SOUNDCLOUD API

- Extensive API
- Multi language SDKs
- “Search” & “Stream”
- <https://developers.soundcloud.com/>



SOUNDCLOUD HTML 5 PLAYER



Cyril Hahn

Cyril Hahn - Perfect ...

Share

4:48

▶ 1,117,856

The image shows a SoundCloud player interface for a track by Cyril Hahn. The player includes a play button, the artist's name, the song title, a share button, a progress bar showing the duration (4:48), and a count of plays (1,117,856). The background of the player is a blurred version of the abstract painting shown on the left.

SOUND MANAGER 2



- Crossplatform API which allows JS to access and utilize Flash media methods
- <http://wheelsofsteel.net/>

SOUNDMANAGER 2 & CSS



<http://wheelsofsteel.net/>

JQUERY

- Javascript Library
- Will be used for the interactive slider and knob coding
- <http://jqueryui.com/slider/>
- <http://anthonyterrien.com/knob/>

PREVIOUS ATTEMPTS

- <https://github.com/AnthonyDry/SoundcloudDj>
 - See: http://www.music.mcgill.ca/~jackson/final/GITHUB_Example/Soundcloud_DJ_Master/
- <https://github.com/robclouth/SoundCloud-Mixer>
 - See: http://www.music.mcgill.ca/~jackson/final/GITHUB_Example/SoundCloud-Mixer-master/public/

FUNCTIONAL ONLINE MIXERS

- <http://wheelsofsteel.net/>
- <http://mix.until.am/>

TIMELINE

- Sunday November 30th: Soundcloud widget with search functionality finished
- Sunday December 7th: jQuery aspects (knobs and sliders) coded and linked with widgets
- Sunday December 14th: Overall aesthetic and final touches

WORKS CITED

- Anthony Dry. "SoundcloudDJ." *GitHub*. GitHub, n.d. Web. 27 Nov. 2014. <<https://github.com/AnthonyDry/SoundcloudDj>>.
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- Until AM. "Until AM." *Until.AM*. Until AM, n.d. Web. 27 Nov. 2014. <<http://mix.until.am/>>.

MUMT 301

Final Project Proposal

Project Goals

- Create a website where music playlists generated from Facebook groups/pages can be continuously streamed
- The user will be able to log into Facebook within the webpage and access music posted in their private groups and on the “walls” of people in their network
- Postings of links to different sites can be aggregated and listened to in a continuous stream, users can search through posts using filters like date posted, number of likes, and person posting, and generate further information about the artist within the website
- The site will display playlists made in public Facebook groups and pages that can be accessed without a login prompt as examples, as a way to include people who do not use Facebook, or for the inclusion of Facebook users who are not members of music-sharing groups
- Hopefully this will also encourage people to create music-sharing groups on Facebook with their friends as a form of music recommendation, discovery, and collective curation

Facebook music-sharing and discovery group examples

Let's Share Some Sonic Waves

Emily Hanson
November 7 at 2:19pm · Montreal
<https://www.youtube.com/watch?v=G4yiFSTaWIU>

EVY JANE - Laurel... sometimes live a cappella



YOUTUBE.COM

Like · Comment · Share

✓ Seen by 44

Lina Martin-Chan likes this.

Write a comment...

Sébastien Alexander
November 6 at 1:38pm
<http://youtu.be/ZYcU-bUweL0>

Alien City - Dirty Heaven



Last track from the 1979 self titled album from Jon Turnbow, Some info from the fantastic swanfungus site.... Originally released in a limited pressing of 50...

YOUTUBE.COM | BY NIGHTMELADY

Roasting beets

Derek DeBoer
September 4 · Ithaca, NY, United States
for the soul
<https://www.youtube.com/watch?v=mwztoqWeu54>



Aloe Blacc - Bente Ordinaria (2006)

YOUTUBE.COM

Like · Comment · Share

✓ Seen by 18

Morgan Fairbank likes this.

Write a comment...

Erica Jewell
August 4 · Edinburgh, United Kingdom
<http://sahelsounds.bandcamp.com/.../music-from-saharan-cellph...>



MUSIC FROM SAHARAN CELLPHONES

Music from Saharan Cellphones, by sahelsounds

9 track album

SAHELSONGS.BANDCAMP.COM

Save

Similar Application: Solayo

Solayo is “a Web app that aggregates content from YouTube, Dailymotion and SoundCloud, letting you search for and play music and videos from just a single site” – Kaylene Hong, The Next Web, 30 October 2013

The screenshot shows the Solayo beta application interface. On the left, there's a sidebar with links for Media Search, Radio, Login, Sign Up, Leave feedback, and Tour. The main area has a search bar with 'coldplay' typed in, a guest account indicator, and a search button. Below the search bar, there are tabs for All, Youtube, SoundCloud, and Dailymotion. The search results list several items:

- dual_bign - Coldplay - Paradise (SoundCloud, 4:15)
- COLDPLAY BEST SONGS (Youtube, 1:28:55)
- Coldplay - Hurts Like Heaven (Dailymotion, 3:30)
- heleyders® - Coldplay - The Scientist (SoundCloud, 5:09)
- Coldplay - The Scientist - Official Music Video [HD] - On Itunes and Spotify (Youtube, 5:13)
- Coldplay - Paradise (Dailymotion, 4:21)

To the right, a large video player window displays a Coldplay music video titled "Physical Therapy". The video player includes controls for volume, playback, and sharing. Below the video player, a "Guest's playlist" section is shown, which is currently empty. To the far right, a sidebar lists "Up Next" content, including a radio channel for Hip-hop and several video thumbnails for artists like Lecrae, Paintballing With Tyler, The Creator, Blackstreet, and Bienvenue au Maroc.

<http://solayo.com/landing>

<http://thenextweb.com/media/2013/10/30/spotify-like-solayo-plays-music-and-videos-from-youtube-dailymotion-and-soundcloud-in-one-place/>

Sub-goal No. 1

27 November – 2 December

- Create webpage
- Acquire Facebook API key, write JavaScript code to gain access to group data and user posts
- Find the format in which these posts appear in the returned JSON/XML file (probably in the form of the posted URL to the group page, or in the form of an embedded player)

Facebook's Graph API method for getting “the feed of posts [...] published to this group”

The screenshot shows the Facebook Developers documentation page. The top navigation bar includes links for Developers, Apps, Products, Docs (which is the active tab), Tools, Support, and Blog. A search bar is also present. On the left, there's a sidebar with sections for App Links, Games, Payments, Ads, Audience Network, Insights, and App Development. Below that is another section for SDKs with links for iOS, Android, JavaScript, PHP, and Unity. The main content area on the right is titled '/{group-id}/feed' and describes it as 'The feed of posts (including status updates) and links published to this group.' It includes sections for 'Reading', 'HTTP' (selected), PHP SDK, JavaScript SDK, iOS SDK, Android SDK, and Graph Explorer. Below this is a code snippet: 'GET /v2.2/{group-id}/feed HTTP/1.1' and 'Host: graph.facebook.com'. Further down are sections for 'Permissions' (listing user_groups and app_posts permissions), 'Fields' (described as an array of Post objects), and 'Examples'.

/group-id/feed

The feed of posts (including status updates) and links published to this group.

Reading

[HTTP](#) [PHP SDK](#) [JavaScript SDK](#) [iOS SDK](#) [Android SDK](#) [Graph Explorer](#)

```
GET /v2.2/{group-id}/feed HTTP/1.1
Host: graph.facebook.com
```

Permissions

- A user access token, for a member of the group, with `user_groups` permission is required.
- An app access token can read posts it published in app and game groups that belong to it.

Fields

An array of Post objects.

<https://developers.facebook.com/docs/graph-api/reference/v2.2/group/feed>

Sub-goal No. 2

3 – 6 December

- Write JavaScript code that uses the data acquired through Facebook to access APIs for YouTube, SoundCloud, Vimeo, Spotify, Grooveshark, Bandcamp, etc.
- It seems that Bandcamp no longer provides API keys

Widget API

In order to access the JavaScript object which provides the SoundCloud Widget API, add [this script](#) to your html page.

This script exposes the `SC.Widget(*iframeElement|frameElementID*)` function to the global scope. It allows you to control the widget from the parent page (the page the widget is inserted into). `SC.Widget` accepts the reference to the iframe element or its id.

```
var iframeElement = document.querySelector('iframe');
var iframeElementID = iframeElement.id;
var widget1 = SC.Widget(iframeElement);
var widget2 = SC.Widget(iframeElementID);
// widget1 === widget2
```

If you're looking for documentation on the Flash Widget visit [this page](#).

Playground

[Widget API Playground](#) is a special page where you can view examples and see the results live on your screen.

Methods

When you get the widget object with the help of the `SC.Widget` method, you'll have

Bandcamp API

Sorry, the API is no longer supported and we're not granting any new developer keys.

https://developers.google.com/youtube/js_api_reference
<http://developer.vimeo.com/player/js-api>
<https://developers.soundcloud.com/docs/api/html5-widget>
<https://bandcamp.com/developer>

YouTube JavaScript Player API Reference

This document provides reference information for the YouTube JavaScript player API.

API Methods

- [Overview](#)
- [Requirements](#)
- [Getting Started](#)
- [Operations](#)
- [Functions](#)
 - [Queueing functions](#)
 - [Playback controls and player settings](#)
 - [Playback status](#)
 - [Playback quality](#)
 - [Retrieving video information](#)
 - [Retrieving playlist information](#)
 - [Adding or removing an event listener](#)
- [Events](#)
- [Event Handlers](#)
- [Examples](#)
 - [Embedding the SWF](#)
 - [Getting the SWF Reference Object](#)
 - [Issuing Calls](#)

vimeo developer();

[API](#) [Player](#) [Guidelines](#) [My Apps](#) [Help](#)

Player / JavaScript API

How to control the Vimeo embedded player with JavaScript.

- [Getting Started](#)
- [Universal Embed Code](#)
- [Calling the API with Froogaloop](#)
- [Calling the API Manually](#)
- [More Examples](#)
- [Flash Embed Code](#)
- [API Reference](#)
 - [Universal Embed Method](#)
 - [Specification](#)
 - [Methods](#)
 - [Universal Embed Event](#)
 - [Specification](#)
 - [Events](#)
- [Compatibility](#)
- [Functions](#)
- [Events](#)

Getting Started

You'll need to be running on a web server instead of opening the file directly in your browser. Flash and JS security restrictions will prevent the API from working when run locally.

The JavaScript API works in different ways depending on how the player is embedded. Check out each section below for the details of the differences between embedding codes. For more information on how to embed our player, see [the embedding page](#).

Universal Embed Code

Sub-goal No. 3

6 – 10 December

- Write code to continuously stream from player to player
- If this is not possible, find a way to gather the information from posts and access recordings to continuously stream from a single site i.e. Spotify
- Display public playlists from public groups on site

Solayo

S beta

Media Playlists People

Floating Points Nuits Sonores

All Youtube SoundCloud

Nuits Sonores by floating points 11:56 SoundCloud

Floating Points - Nuits Sonores by 10minsDeep 11:59 Youtube

Floating Points - Nuits Sonores by Nick Ottrando 11:57 Youtube

Floating Points - Nuits Sonores by Housin' Berg 11:57 Youtube

NUITS SONORES 3 - FLOATING POINTS by Stéphane BOUCLO 7:02 Youtube

Leave feedback



0:00

Queue 0

0 1 2 3 4 5 6 7 8 9

<http://solayo.com/mediasearch>

SCM Player



SCM Music Player

seamless music for your website



SCM Music Player is a free and open source web music player, that brings a seamless music experience to your website. Support Tumblr, Blogger, Weebly, Tistory and more.

Continous Playback Cross Pages - Seamless playback throughout your website.

Full Featured Control - Play, pause, next, previous, seek, shuffle, repeat mode, volume and more.

Custom Skins - Match your look and feel. Choose or design your own skin with CSS.

Dynamic Playlist - Music from various sources: **MP3, SoundCloud, Youtube, RSS** in **HTML5 or Flash**.

Flexible UI - Dockable player on top or bottom. Playlist can be toggled.

Setup Wizard - Create your SCM Music Player without any pain.

Custom Skins

Setup

Addons

About

Setup Wizard

Go through each tab to **Choose Skin**, **Edit Playlist**, and **Configure Settings**. Select **Done** to proceed.

Returning user? Select **Import Profile**, to load up and edit your current script.

The screenshot shows the 'Choose Skin' tab selected in the top navigation bar. Below it, a section titled 'DEFAULT SKINS' displays seven different color-coded skins for the SCM Music Player. Each skin is represented by a horizontal bar with control icons (play, pause, stop) and a volume slider. The skins are colored in grey, blue, pink, orange, red, purple, and green. To the right of the skins, there are small radio buttons for selection. At the bottom right of this section, a callout box contains the text '4000+ Custom Skins'.

<http://scmplayer.net/>

Streamus

[Home](#)[Getting Started](#)[About](#)[Donate](#)

Simple, streaming music.

**The convenience of YouTube.
The beauty of Chrome technology.**

Streamus turns YouTube into the music player you always wanted. It's a Google Chrome extension that makes streaming YouTube refreshingly easy.

[Install extension now](#)

Forget the bookmarks

Adding videos to Streamus makes bookmarking YouTube obsolete! Your video collections are accessible from any PC.

No need for tabs

Ever accidentally close a song you were listening to? Yeah, us too. Streamus runs behind the scenes so you can enjoy a seamless, tab-free experience.

<https://streamus.com/>

Spotify API

[Home](#)[News](#)[Showcase](#)[My Applications](#)[Web API](#)[User Guide](#)[Beginner's Tutorial](#)[API Endpoint Reference](#)[Albums](#)[Artists](#)[Browse](#)[Library](#)[Playlists](#)[Profiles](#)[Search](#)[Tracks](#)[API Console](#)[My Apps](#) [Tools](#) [Support](#) [News](#)

Search

Web API Endpoint Reference

Our Web API endpoints give external applications access to Spotify catalog and user data.

Web API Base URL: <https://api.spotify.com>[User Guide](#) | [Tutorial](#) | [Code Examples](#)Search:

Method	Endpoint	Usage	Returns
GET	/v1/albums/{id}	Get an album	album
GET	/v1/albums?ids={ids}	Get several albums	albums
GET	/v1/albums/{id}/tracks	Get an album's tracks	tracks*
GET	/v1/artists/{id}	Get an artist	artist
GET	/v1/artists?ids={ids}	Get several artists	artists
GET	/v1/artists/{id}/albums	Get an artist's albums	albums*
GET	/v1/artists/{id}/top-tracks	Get an artist's top tracks	tracks
GET	/v1/artists/{id}/related-artists	Get an artist's related artists	artists

<https://developer.spotify.com/web-api/endpoint-reference/>

Public group example

ABOUT

1,645 members

Public Group

This group is loosely related to a group I set up on MSN in the early 2K's called "Ambient Techno World. It was partly providing a link to a genre of obscure post-club electronic music that I'd picked up listening to the Chill Out Zone on Kiss FM during the 90's before the show was taken off air in 2000.

I still really enjoyed this new raw Electronica. Some fantastic artist created their best works in my opinion. I am hoping to regain the same kind of situation as was on MSN where people with an interest in Electronica networked before Malware links took hold. I intend to post up some of the great tunes if I can locate them on Youtube etc.

Music over two decades old has stood the test of time for its everlasting freshness. It was a renaissance where Electronica had moved on from its novelty beginnings and artists the world over were more adept at playing with new sounds, using new musical tools and essentially creating a genre of ambient techno. The music has remained largely underground but for a variety of radio broadcasts like the one on Kiss - The Chill out Zone with Paul Thomas.

2000 heralded the end of the Kiss Chill Out Zone, when corporate bosses of EMAP withdrew its budget for selective music. That was when the broadcast died but became the advent of a new commercial coining of the term 'Chill Out' and such sub genres as Lounge and chill out classical began misrepresenting the original genre.

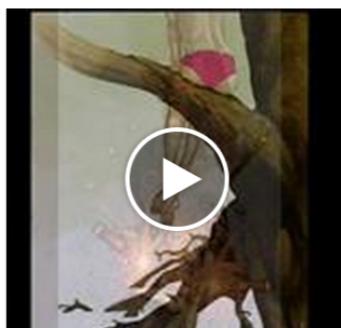
Ambient Techno World 1990s

Edward Edward
Yesterday at 9:38am
<https://www.youtube.com/watch?v=IGSCLNGn2Qc>



Ballet Mechanique - Embody
1996, Eevo Lute Muzique
<http://www.discogs.com/Ballet-Mechanique-Embody-EP/master/78328>

Vagelis Pontikis
November 23 at 8:32pm
ghost#dogs



The Black Dog - Clan (Mongol Hordes)
I.A.O. - "Clan (Mongol Hordes)". Black Dog Productions. Bytes. Warp Records. 1993. Art: Dream a Little Dream of Me by Frazer Irving. Adele by Frazer Irving. ...

<https://www.facebook.com/groups/AmbientTechnoWorld/>

Sub-goal No. 4

10 – 13 December

- Add search filters such as date posted, number of likes, person posting, et cetera.
- Add links for further information about artists [as in Assignment 8]

Extracting info for filters

Facebook Developers | Apps | Products | Docs | Tools | Support | Blog | Search in docs

App Links
Games
Payments
Ads
Audience Network
Insights
App Development
SDKs
iOS
Android
JavaScript
PHP
Unity
Third-Party
APIs

`/{object-id}/likes`

This reference describes the `/likes` edge that is common to multiple Graph API nodes. The structure and operations are the same for each node.

Reading

[HTTP](#) [PHP SDK](#) [JavaScript SDK](#) [iOS SDK](#) [Android SDK](#) [Graph Explorer ▾](#)

```
GET /v2.2/{object-id}/likes HTTP/1.1
Host: graph.facebook.com
```

Permissions

- The same permissions required to view the parent object are required to view likes on that object.

Fields

An array of User objects representing each of the people who liked the object, in addition to the following field:

Property Name	Description	Type
<code>total_count</code>	Total number of people who liked. This is only returned when the flag <code>summary=true</code> is set.	<code>int32</code>

<https://developers.facebook.com/docs/graph-api/reference/v2.2/object/likes>

```

function querySimilar()
{
    $("#newname").empty();
    $("#bio").empty();
    $("#photo").empty();
    $("#further").empty();
    var selected = event.target.innerHTML;
    var url = 'http://ws.audioscrobbler.com/2.0/';
    var args =
    {
        method: 'artist.getinfo',
        artist: selected,
        api_key: lastfmKey,
        format: 'json',
    };
    $.getJSON(url, args, function(data)
    {
        name = data.artist.name;
        biography = data.artist.bio.content;
        photosource = data.artist.image[04]["#text"];
        photo = "</img>";
        $("#newname").append(name);
        $("#bio").append(biography);
        $("#photo").append(photo);
    });

    var urlurl = 'http://developer.echonest.com/api/v4/artist/urls';
    var urlargs =
    {
        api_key: echoKey,
        name: selected,
        format: 'json',
    };
    $.getJSON(urlurl, urlargs, function(urldata)
    {
        $("#further").append('further info: <br>');
        links = urldata.response.urls;
        for (i = 0; i < 3; i++)
        {
            $("#further").append('<a href="' + links[Object.keys(links)[i]] + '" target="_blank">' +
links[Object.keys(links)[i]] + '</a><br>');
        };
    });
}

```

<script> for further information about artists

Sub-goal No. 5

14 – 16 December

- Make sure the site is easily navigable and create a clean and good-looking CSS style
- If there is extra time, repeat the process but accessing data posted to Twitter

Bibliography

(n.d.). Ambient Techno World. *Facebook*. Retrieved 27 November, 2014. From <https://www.facebook.com/groups/AmbientTechnoWorld/>

(n.d.). Bandcamp API. *Bandcamp*. Retrieved 27 November, 2014. From <https://bandcamp.com/developer>

(n.d.). Solayo. Retrieved 27 November, 2014. From <http://solayo.com/mediasearch>

Hong, K. (30 October 2013). Solayo Plays Music and Videos In One Place, For Free. *The Next Web*. Retrieved 27 November, 2014. From <http://thenextweb.com/media/2013/10/30/spotify-like-solayo-plays-music-and-videos-from-youtube-dailymotion-and-soundcloud-in-one-place/>

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(n.d.). *Music Recommendation Machine*. Retrieved 27 November, 2014. From <http://www.music.mcgill.ca/~erica/recommendation.html>

TOURING, TICKET SCALPERS AND WHAT
THE INDUSTRY IS DOING ABOUT IT
Written Proposal

TOURING, TICKET SCALPERS AND WHAT THE INDUSTRY IS DOING ABOUT IT

A close-up of a silver and black microphone on a stand, positioned in the foreground. The background is a blurred, warm-toned scene of a concert or event, with numerous small lights from phones and cameras creating a bokeh effect.

MUMT FINAL PROJECT

THESIS STATEMENT

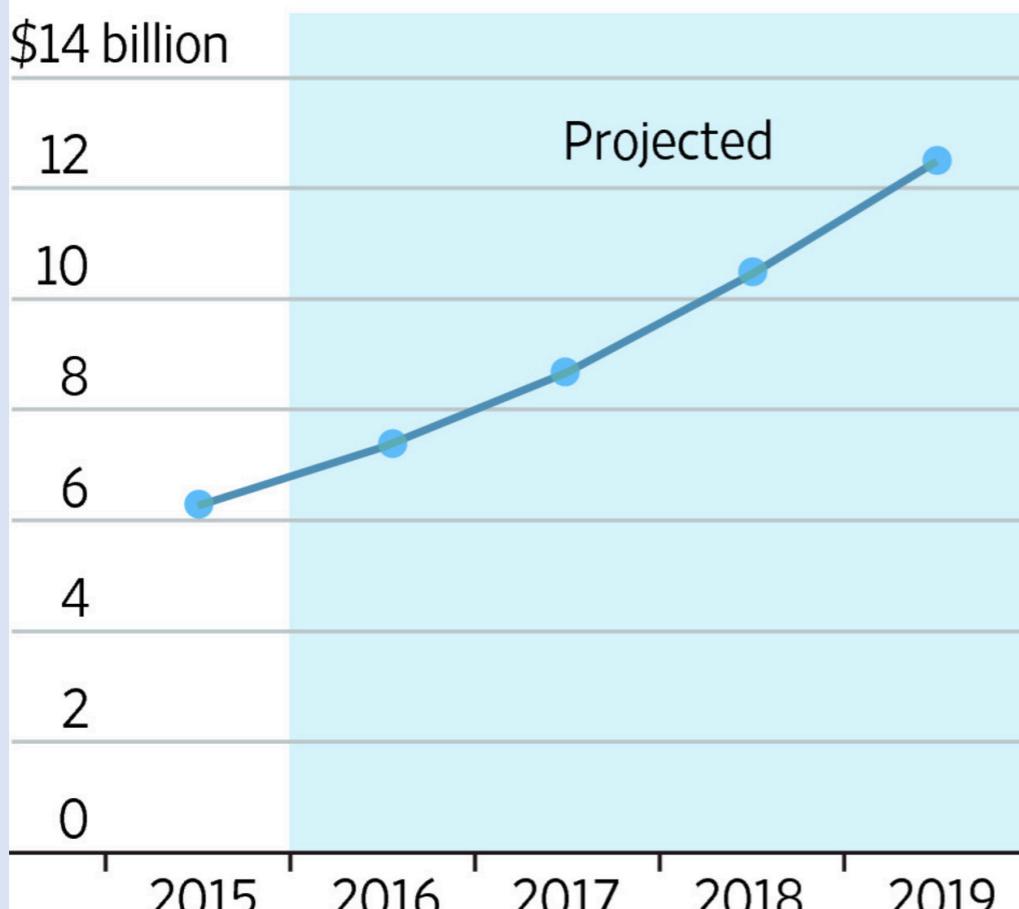
With the increase in relevance of touring comes the increase of ticket scalpers preying on ticket sales. To counter this growing problem, artists and ticket companies are starting to collaborate to create new strategies to protect their sales, while consistently devising ways to increase revenue from their shows. This paper will discuss some of the existing strategies specifically those used by U2, Jay-Z and Taylor Swift to attempt a prediction on what direction these strategies will take ticket sales in the coming years.

CONTEXT

- Touring is increasingly becoming the most reliable source of income.
- Artists have really strenuous tour schedules to stay relevant and keep money flowing
- People are more willing to pay for a live experience rather than to own music
- Ticket prices are steadily rising at the risk of dissuading customers
- To maximize revenue, pricing needs to be strategic, dynamic and tiered

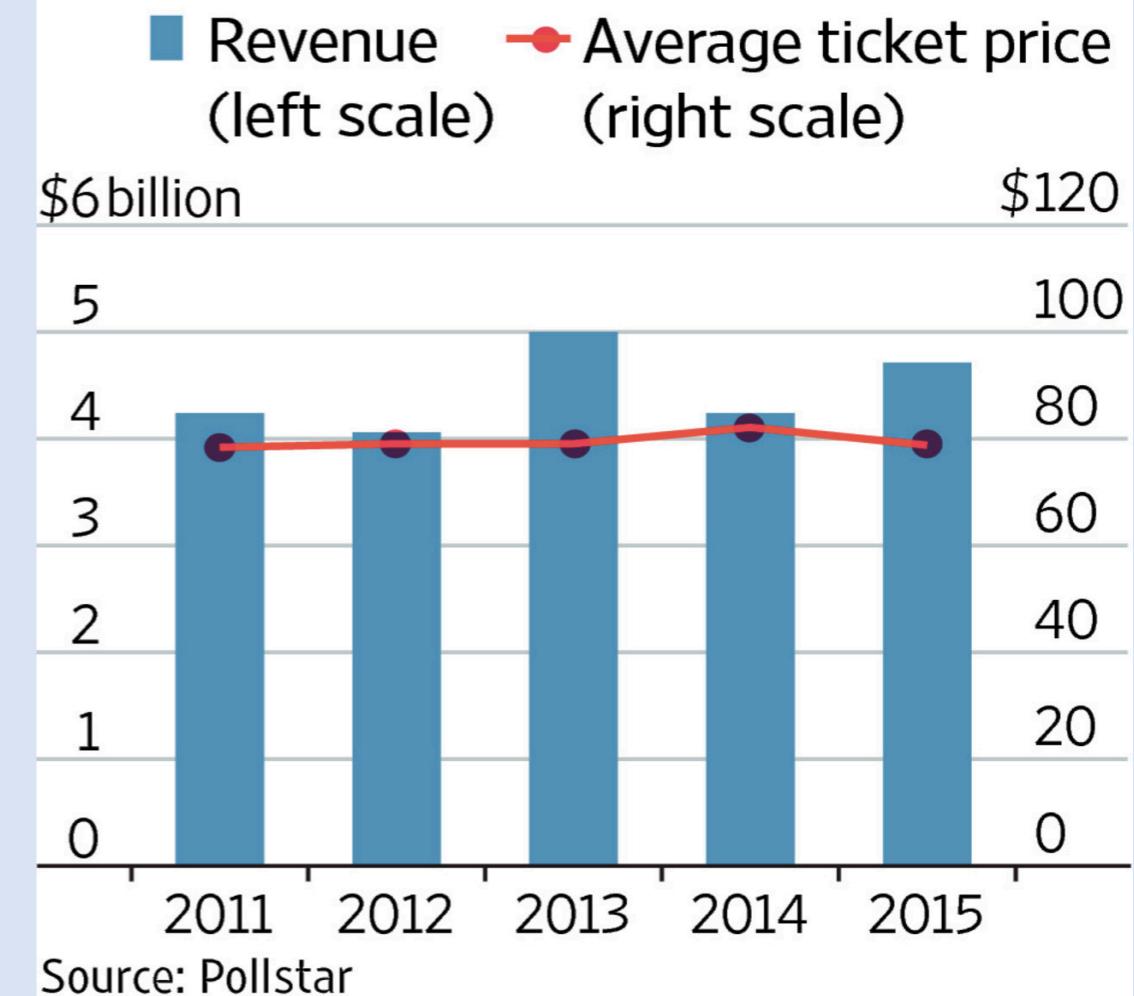
Chart about increasing relevance of touring

Includes sports and music



Source: Technavio

Top 100 world tours
(plus average ticket prices, in dollars)



Source: Pollstar

SCALPERS AND TOUTS

- The secondary market for ticket sales is essential
- Its primary purpose is to provide an outlet for an individual to resell the ticket due to a change of plans
- However, scalpers and ticket touts are usually the majority of sales on these websites
- They exist to exploit arbitrage opportunities
- They breed if tickets are sold in a buying frenzy or if the tickets are valued lower than they are worth
- Dynamic pricing is a good way to thwart this

MAIN GOAL

To attempt a prediction of the future of ticket pricing and sale strategies in the music industry.



SUB GOALS

- 1) Discuss and elaborate upon the increasing relevance of touring to music industry revenue
- 2) Describe motives for ticket-resale and the corresponding outlets
- 3) Evaluate the interaction between the primary and secondary ticket-sale markets
- 4) Examine the ticket pricing strategies used by U2, Jay-Z and Taylor Swift in partnership with Live Nation.
- 5) Interview three individuals who have interacted with the Taylor Swift Tix program to gage the customer response
- 6) Draw a conclusion that considers for the successes and failures of these initiatives
- 7) Suggest improvements and use the cumulative date to predict the possible future strategy of ticket pricing.

TIMELINE

- Goals 1, 2, 3, 4, 6 and 7 will be represented as different sections of the paper. This paper will be written between the 15th and 19th of December.
- Taylor Swift tickets go on sale December 14th, I will interview people on December 16th to get an idea of their full experience.
- I will study the ticket pricing for some upcoming shows such as Sam Smith, Harry Styles, DanandPhil tour to draw a stronger conclusion about which pricing method is carrying forward.

Sources

Brown, S. C., & Knox, D. (2016, May 20). Why go to pop concerts? The motivations behind live music attendance. Retrieved December 07, 2017, from <http://journals.sagepub.com/doi/abs/10.1177/1029864916650719>

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RNDM
Music Composition with web-based tools
Written proposal

Music!

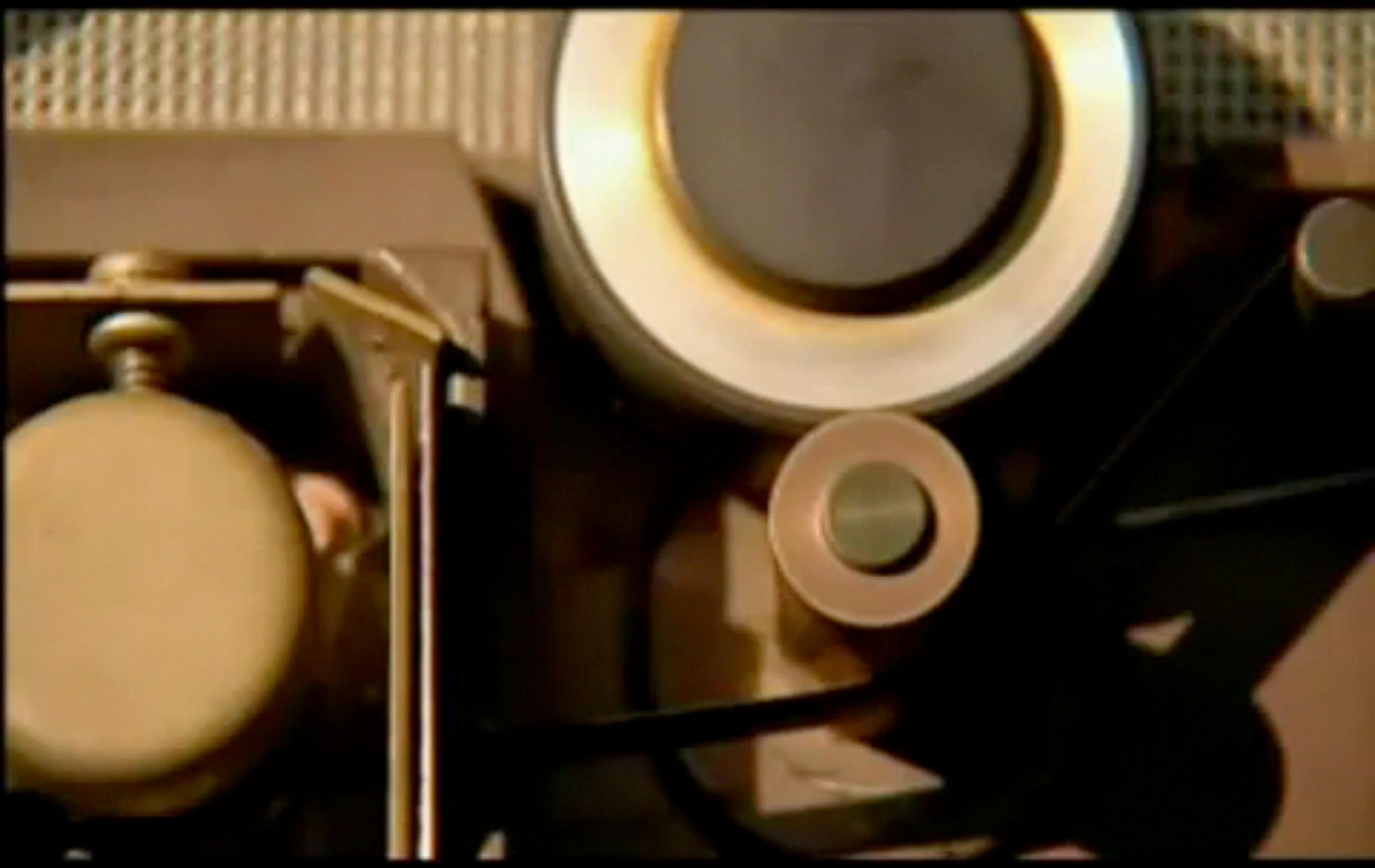
Final Project Proposal draft round

Web-based procedural instrument

During the first half of the 60s, the American composer Steve Reich developed the idea of repeating short patterns of sound as a compositional technique by experimenting with tape.

By using the same piece of audio in two different recording machines, he started both loops in unison, and gradually delayed one of the machines in order to obtain complex and canonic rhythmic, melodic, and harmonic patterns starting from simple material.

You can create a web-based emulation of the analog process that Reich explored 45 years ago.



More Music APIs

CoverArtArchive API

- Repository of user-contributed music release covers
- <https://coverartarchive.org/release-group/986def88-cf90-3c76-a46cfdf026b2ded1/front>
- Thumbnails!

LastFM API

- An interface to the **LastFM database**
- Aimed at **developing musical applications** requiring **music metadata** and **listeners' listening behaviour data**
- The service's architecture follows the **REST** design principles
- Interaction with the web service is done using HTTP and all content is **served in XML format**
- The same web service is also available in JSON format
- A key is required to access the API
- <https://www.last.fm/api>
- Sadly, no images anymore! But there are other APIs to get them.
Example

Echonest's Lab and Spotify Web API

- Music intelligence company
- Acquired by Spotify
- Provides acoustic and cultural data for driving Spotify's recommendation engine
- Part of the old Echonest API now is available in Spotify API
- <http://static.echonest.com/labs/>
- The Spotify Web API

Synths

- www.tony-b.org (use Safari)
- <http://www.gurchet-rai.net/apps/sequencer/>
- <http://www.angryoctopus.co.nz/?cat=5> (IE only!)
- <http://websynths.com/>
- <https://www.g200kg.com/docs/webmodular/>
- <https://www.modulargrid.net/e/racks/synth/54459/2824>
- <https://musiclab.chromeexperiments.com>

Web-based music sequencers and DAWs

- [AudioSauna](#)
- [Soundation](#)
- [AudioTool](#)
- [AmpedStudio](#)
- and many others
 - [UJAM](#)
 - [Bandlab](#)
 - [Soundtrap](#)

Collaborative music production

- <https://www.looplabs.com/beta>
- <https://www.ohmstudio.com/> (web-based collab + client)
- <https://blend.io/>
- <http://www.cockos.com/ninjam/> (distance jamming and collab!)

Web-based post production

- Mastering:
 - Cloudbounce
 - Masteringbox
 - Landr (Montréal-based!)
- Post-production:
 - <https://auphonic.com/>

Free sounds

- <http://www.downloadfreesound.com/>
- <http://www.freesfx.co.uk/>
- <http://freesound.org>
 - crowd-source
 - most comprehensive one

Coding environment and Javascript libraries for sound generation and processing

- [Pizzicato.js](#)
- [timbre.js](#)
- [Tone.js \(more demos\)](#)
- <http://jazz.computer/> (Awesome!)
-

BREAK

JavaScript

- mumt301.github.io