

# Visualizing Emotional Response

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# Goals

- Overall goal is to create a music player which visualizes a user's emotional response.
- Greatest challenge is to find ways to represent emotion and transitions between emotional states

# Initial Idea

The screenshot shows the iTunes application window. At the top, the playback controls show 'Intro Outkast' at 0:40. The left sidebar includes 'LIBRARY', 'Music', 'Emotion Monitor', and 'EMOTION MONITOR' with a 'Current State: HAPPY' indicator and two line graphs. The main area displays a visualization of music tracks as album covers connected by lines. A large circle labeled 'Relaxing' encompasses several covers, including 'True Magic' and 'We Are Hip Hop Di...'. A smaller circle labeled 'Lower Heartrate' encompasses other covers. The bottom of the window features a table of tracks.

Name	Time	Artist	Album	Genre	Rating	Play Count
<input checked="" type="checkbox"/> Perfect Timing	4:14	Mos Def	True Magic	Rap		1
<input checked="" type="checkbox"/> Lifetime	5:47	Mos Def	True Magic	Rap		
<input checked="" type="checkbox"/> Another World (Black Star Rem...	4:19	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> My Kung Fu (Urban Thermal D...	5:09	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> Most Def (Remix)	4:14	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> Tinseltown to the Boogiedown ...	4:55	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> Double Trouble ft. The Roots)	5:52	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> S.O.S. ft. Bush Babies	4:59	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> A Brighter Day ft. Ronnie Jordan	6:11	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> Travelin' Man (DJ Honda Remix)	3:55	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> The Hard Margin ft. The Creat...	4:31	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> Hurricane ft. The Roots, Com...	5:37	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> Body Rock ft. Q-Tip and Tash	5:13	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> One Four Love ft. Talib Kweli, ...	4:01	Mos Def	We Are Hip Hop Di...	Hip-Hop		1
<input checked="" type="checkbox"/> Next Universe	4:16	Mos Def	We Are Hip Hop Di...	Hip-Hop		
<input checked="" type="checkbox"/> Stakes Is High (De La Soul Rem...	4:49	Mos Def	We Are Hip Hop Di...	Hip-Hop		

1165 items, 3.8 days, 7.75 GB

# Requirements

- Needs to be active and responsive to user
- Needs to display imagery indicative of different emotional states
- Needs to react to both small fluctuations and major changes

# Proposed Visualization

- Create a driving simulation where user's emotional state determines the speed and location of the car.
- Ex. A relaxed user is shown a scenic drive by the beach, an excited user is shown flying through Manhattan.
- This can be done using Google Earth APIs

# Proposed Application

The screenshot shows a web browser window with the following elements:

- Address Bar:** file:///C:/Users/Ebby/Desktop/earth/Google%20Earth%20Plug-in%20Driving%20Simulator.htm
- Simulator Panel:** Contains buttons for "Reset", "Start", "Pause", "-", and "+".
- Statistics Panel:** A bar chart with five bars representing different states: Excited, Aroused, Alert, Normal, and Relaxed. The "Excited" bar is the tallest.
- Current State:** Text indicating the current state is "Excited".
- Map Panel:** A 3D aerial view of a city street in New York, featuring a navigation control and a red location pin.
- Music Player Panel:** A large, empty rectangular area labeled "Music Player".
- Visual Feedback:** A purple waveform visualization at the bottom of the page, showing high-frequency oscillations.