

# Emotional Response to Music Monitor

Ebby Amirebrahimi

# Motivation

- Goal of the overall project is to classify a user's music library based on their emotional responses
- Goal for this class is to create an intuitive interface which visualizes this process and organization of music

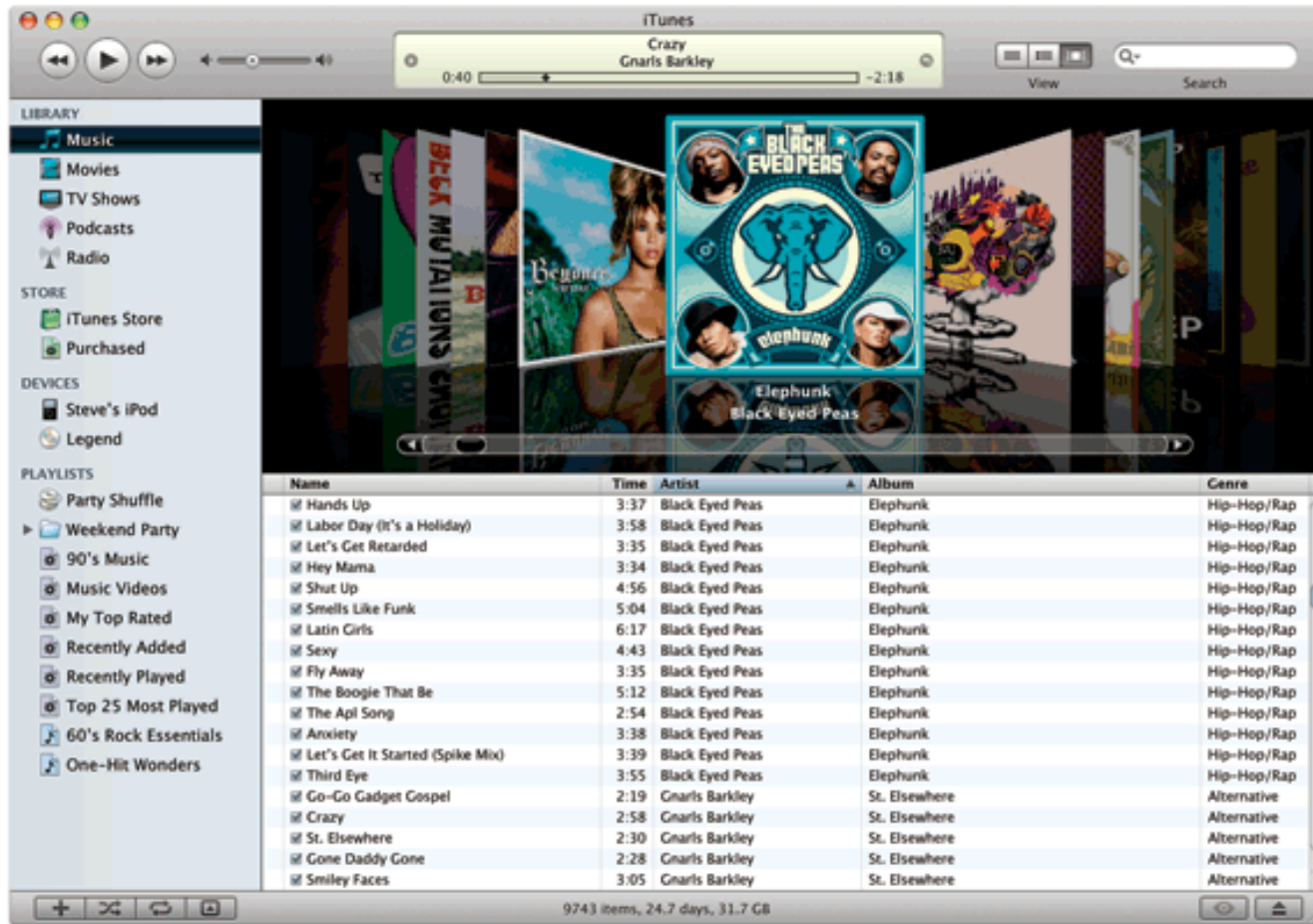
# Problems

- Should depict the users current emotional state in a quantitative format (graph)
- Should display the auditory properties of the current song being played, and emotional classification
- Should allow user to explore and select songs based on their emotional connections
- Should take input from a Galvanic Skin Sensor

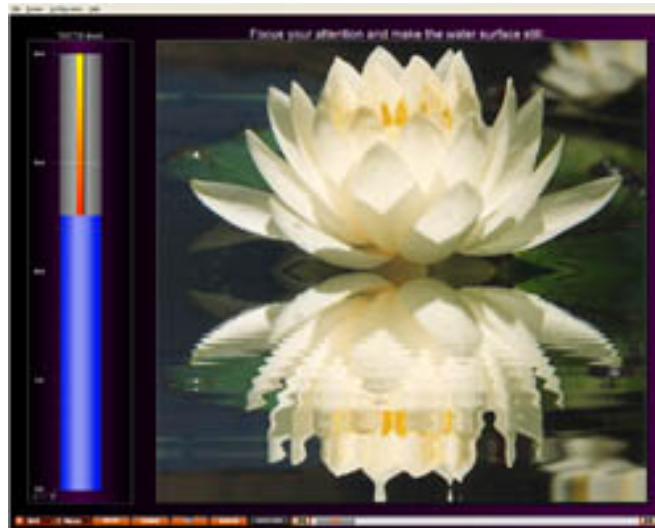
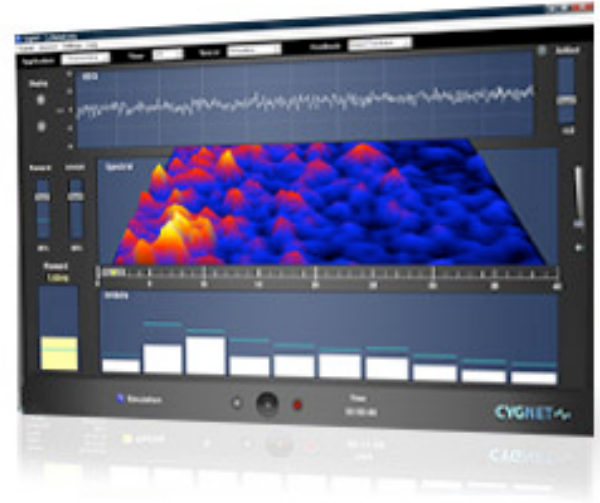
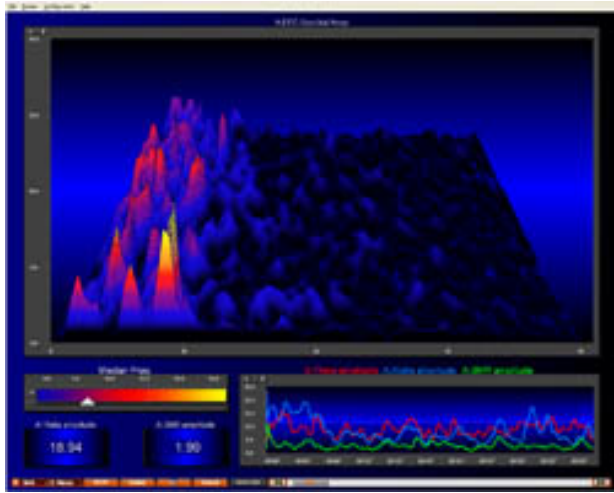
# Previous work

- Will be a cross between a music player and a neurofeedback monitor

# Music Players



# Neurofeedback Software



# Possible Application Layout

The screenshot displays the iTunes application interface. At the top, the title bar reads 'iTunes' and the current track is 'Intro Outkast' with a progress bar at 0:40. The left sidebar contains a 'LIBRARY' section with 'Music' and 'Emotion Monitor' options. The 'EMOTION MONITOR' section shows the 'Current State' as 'HAPPY' and includes two line graphs. The main area features a visualization with two clusters of album covers: a large 'Relaxing' cluster and a smaller 'Lower Heartrate' cluster. The bottom of the window shows a table of music 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

# Milestones

- 1 – Working display of real-time skin sensor data
- 2 – Application skeleton with data display and music library present
- 3 – Finish ML backend and create exploration visualization/music library



Questions?