



# Augmenting Programmatic Music

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# What's the plan?

- Some questions that led to augmenting music
- Some examples of augmenting media
- Augmenting a community ensemble
- Augmenting programmatic music
- Let's talk

# How to reach the resources

- ▶ [www.JaredOLEary.com](http://www.JaredOLEary.com)
  - ▶ Presentations
  - ▶ Augmenting Programmatic Music



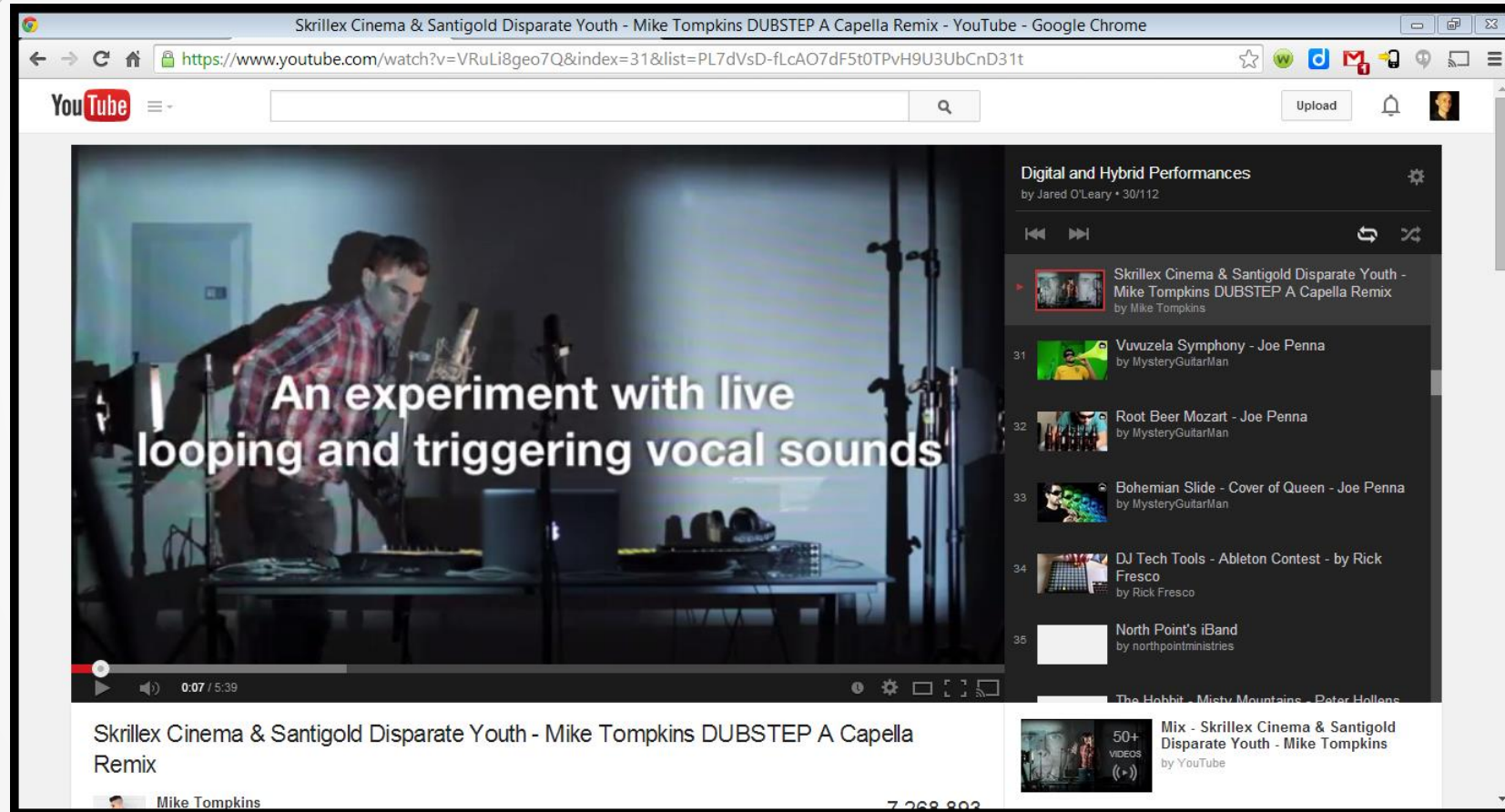


# Some questions that led to augmenting music

In what ways can technology be used to think deeper about performing music?

The image is a screenshot of a YouTube video player in a Google Chrome browser. The browser's address bar shows the URL: <https://www.youtube.com/watch?v=-CBd2mEUK2s&index=100&list=PL7dVsD-fLcAO7dF5t0TPvH9U3UbCnD31t>. The video player itself shows a man in a dark hoodie sitting on a stool, playing a double bass. He is in a dimly lit room with a desk and a lamp to his right. The video title is "Bach's Bastion ReMix by Sebastian Freij". Below the video, the channel name "Sebastian Freij" is visible with a "Subscribe" button and "1,471" subscribers. The video has 8,951 views. To the right of the video player is a playlist titled "Digital and Hybrid Performances" by Jared O'Leary, containing 112 videos. The first video in the playlist is the one currently playing. Other videos in the playlist include "Controller Battle - JOEL DAVEL vs ARTFUL CODGER (elimination)", "My Dog Sings Michael Jackson", "WhitePatch Boy plays the AlphaSphere @ Big Tings Occur, filmed by Craig 'Rainbo Ninja'...", "Imogen Heap Performance with Musical Gloves Demo", and "No Love" cover compilation with a "how to" explanation at the end by Jared O'Leary. At the bottom right of the video player, there is a "Mix" button and a "Videos" button, with "50+ VIDEOS" and "(-)" next to them.

# How can technology be combined for new ways of making music?

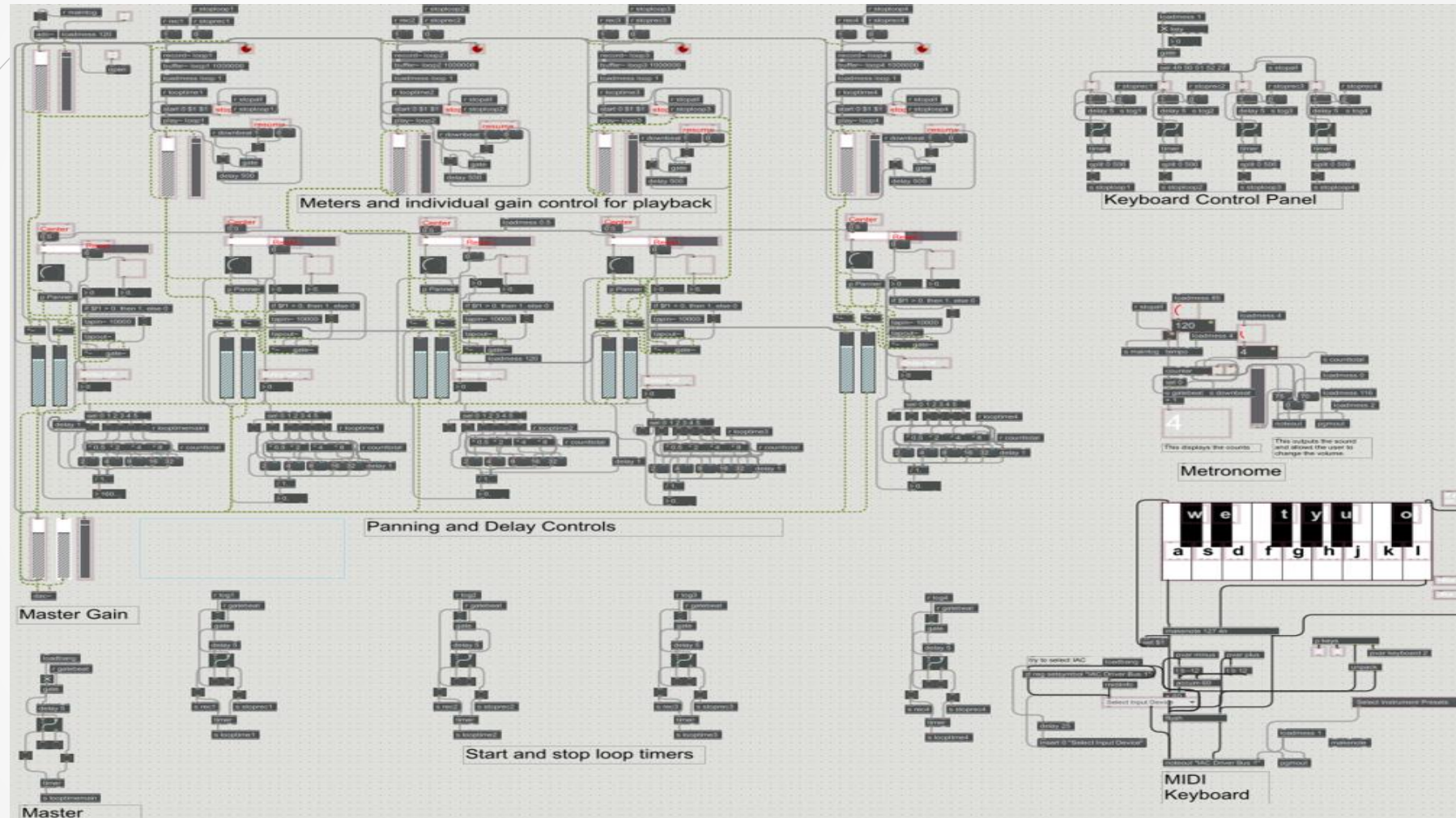


The screenshot shows a YouTube video player in a Google Chrome browser. The video title is "Skrillex Cinema & Santigold Disparate Youth - Mike Tompkins DUBSTEP A Capella Remix". The video content shows a man in a red and white plaid shirt performing at a desk with a laptop and a microphone. Overlaid text reads: "An experiment with live looping and triggering vocal sounds". The video player includes standard controls like play/pause, volume, and a progress bar showing 0:07 / 5:39. To the right of the video is a playlist titled "Digital and Hybrid Performances" by Jared O'Leary, containing several other music videos. Below the video player, the video title and the channel name "Mike Tompkins" are visible, along with a view count of 7,268,803.

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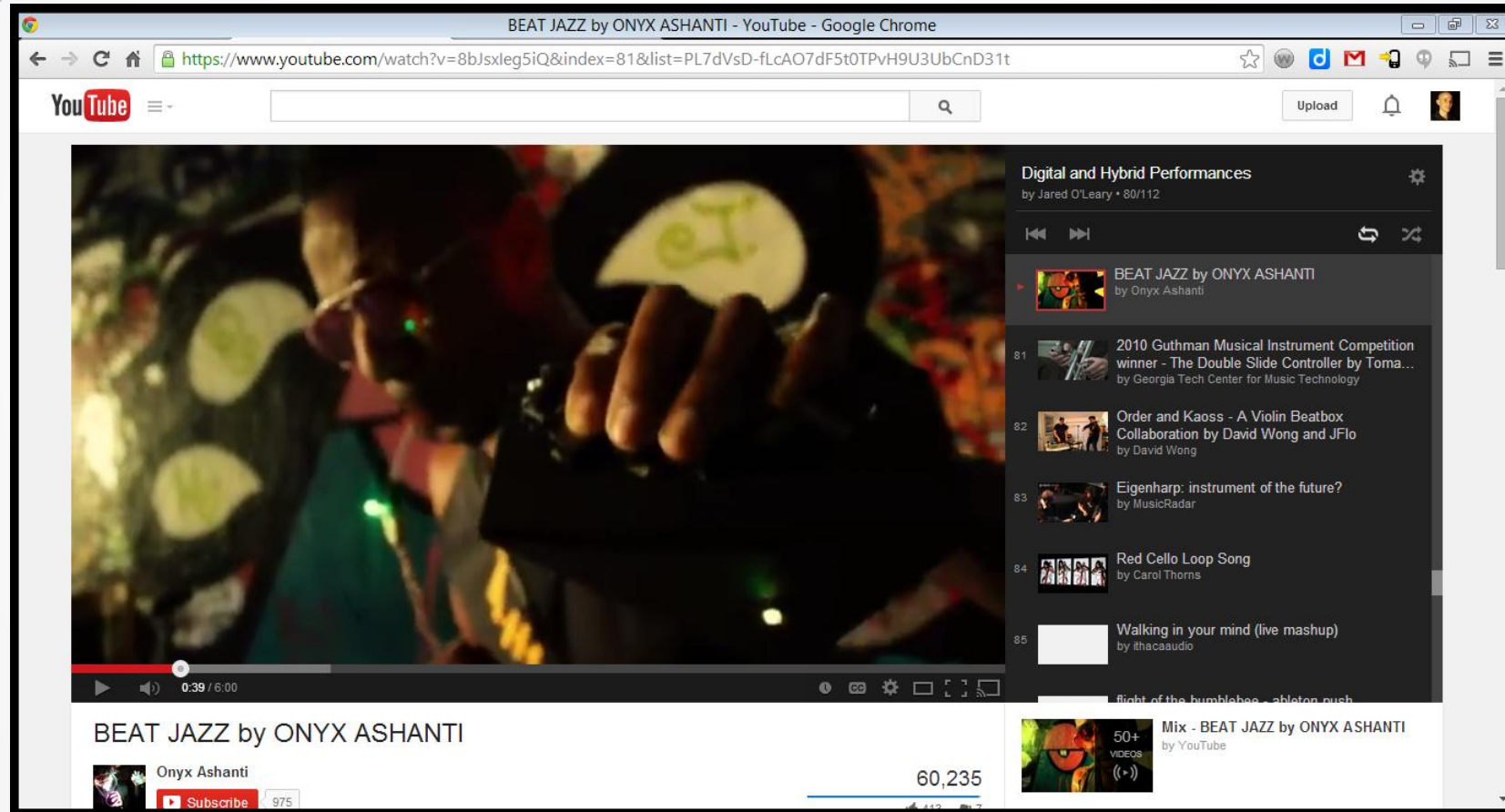


# When is music?



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# When is an instrument?



The image is a screenshot of a YouTube video player in a Google Chrome browser. The browser's address bar shows the URL: <https://www.youtube.com/watch?v=8bJxleg5iQ&index=81&list=PL7dVsD-flCAO7dF5t0TPvH9U3UbCnD31t>. The video player shows a video titled "BEAT JAZZ by ONYX ASHANTI" by Onyx Ashanti. The video content shows a person's hands playing a custom-built instrument, possibly a double slide controller, with a yellow circular sticker on the top surface. The video player interface includes a progress bar at 0:39 / 6:00, a play button, and a volume icon. Below the video, the title "BEAT JAZZ by ONYX ASHANTI" is displayed, along with the channel name "Onyx Ashanti" and a "Subscribe" button with 975 subscribers. To the right of the video player, there is a "Digital and Hybrid Performances" playlist by Jared O'Leary with 80/112 videos. The playlist includes the following items:


- 81 BEAT JAZZ by ONYX ASHANTI by Onyx Ashanti
- 82 2010 Guthman Musical Instrument Competition winner - The Double Slide Controller by Toma... by Georgia Tech Center for Music Technology
- 83 Order and Kaoss - A Violin Beatbox Collaboration by David Wong and JFlo by David Wong
- 84 Eigenharp: instrument of the future? by MusicRadar
- 85 Red Cello Loop Song by Carol Thorns
- Walking in your mind (live mashup) by ithacaudio

At the bottom right of the video player, there is a "Mix - BEAT JAZZ by ONYX ASHANTI" by YouTube, which has 50+ videos. The video player also shows a view count of 60,235.

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# When is an instrumental ensemble?



The screenshot shows a YouTube video player in a Google Chrome browser. The video title is "DJ Radar w/the Red Bull Artsechro Symphony - Carnegie Hall". The video player shows a DJ in a tuxedo performing at a laptop, with a symphony orchestra in the background. The video progress bar indicates 7:30 / 8:33. Below the video player, the channel name "DJ RADAR ((( )))" is visible, along with a "Subscribe" button and a subscriber count of 44. The video has 3,817 views. To the right of the video player, there is a playlist titled "Digital and Hybrid Performances" by Jared O'Leary, containing 4/113 items. The playlist includes the current video and several other videos: "Baby Got Athletic" by MowtenDeo, "j.viewz playing Teardrop with vegetables" by ViewzOfficial, "MaKey MaKey Music Examples" by Eric Rosenbaum, "Pizza Hut Canada presents Dip Hop" by Pizza Hut Canada, and "Brian Williams Raps 'Rapper's Delight'" by The Tonight Show Starring Jimmy Fallon. Below the playlist, there is an advertisement for "St Barts Vacation Video" by wimcovillavacations, which has 134,000 views and a duration of 1:32.

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# Some examples of augmenting media

# Augmenting imagery with sound

The screenshot shows a YouTube video player interface. The main video is titled "Life Accordion To Trump" by Huw Parkinson, with 1,765,700 views and 14,015 likes. The video content shows a man playing an accordion with a Trump face overlay. The video is part of a playlist titled "Participatory culture" by Jared O'Leary, which includes 13 videos. The playlist items are: "Life Accordion To Trump" (Huw Parkinson), "The Last Guardian Trailer Remake (with the Cutest Pug)" (IGN), "Epic Fail Vines - Hollaback Girl (Funny)" (Mario Ibarra), "Linkin Bark - Numb" (rooland87), "Donald Trump Bing Bong - Remix Compilation" (TwinkleMan), and "Music using ONLY sounds from Windows XP and 98!" (SomethingUnreal). The video player also shows a "Share" button, an "Embed" button, and an "Email" button. The video player interface includes a search bar, a "You Tube" logo, and a "Search" button. The video player also shows a "Share" button, an "Embed" button, and an "Email" button.

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# Augmenting memes with music

The screenshot shows a YouTube video player interface. The main video is titled "Epic Fail Vines - Hollaback Girl (Funny)" by Mario Ibarra, with 186,603 views. The video content shows a person falling, with the text "Best Vines" overlaid in blue. The right sidebar features a playlist titled "Participatory culture" by Jared O'Leary, containing 10/54 videos. The playlist items include:

- 1. Epic Fail Vines - Hollaback Girl (Funny) by Mario Ibarra
- 11. Linkin Bark - Numb by rooland87
- 12. Donald Trump Bing Bong - Remix Compilation by TwinkleMan
- 13. Music using ONLY sounds from Windows XP and 98! by SomethingUnreal
- 14. Double Dream Hands Soulja Boy by jarzod114
- 15. Bone Thugs-n-Harmony | Tha Crossroads | Sesame Street Version by isthisshowyougoviral

Below the video player, the video details are shown: "Epic Fail Vines - Hollaback Girl (Funny)" by Mario Ibarra, with a "Subscribe" button (221 subscribers) and "Add to", "Share", and "More" options. The video was published on Mar 4, 2015, by Funny Vines.

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# Augmenting media with music

The screenshot shows a YouTube video player for the video "Pepe Silvia w/drums" by David Dockery. The video content shows a man in a red and white baseball cap playing drums. An inset video in the top left corner shows a scene from "The Office" featuring Steve Ballmer. The video player interface includes a search bar at the top, navigation icons, and a playlist on the right side. Below the video player, the video title "Pepe Silvia w/drums" and the channel name "David Dockery" are displayed, along with a "Subscribe" button and "9.5K" subscribers. The video has "730,072 views", "16,049" likes, and "221" comments. Below the video player, there are options to "Share", "Embed", and "Email". The playlist on the right includes videos like "Cash Me Outside, How Bow Dah" [BYOS] by Ralph Nader, "Eminem | Not Afraid | Arthur Mashup" by isthishowyougoviral, "Life Accordion To Trump" by Huw Parkinson, "The Last Guardian Trailer Remake (with the Cutest Pug)" by IGN, and "Epic Fail Vines - Hollaback Girl (Funny)" by Mario Ibarra.



# Creating and augmenting music from media

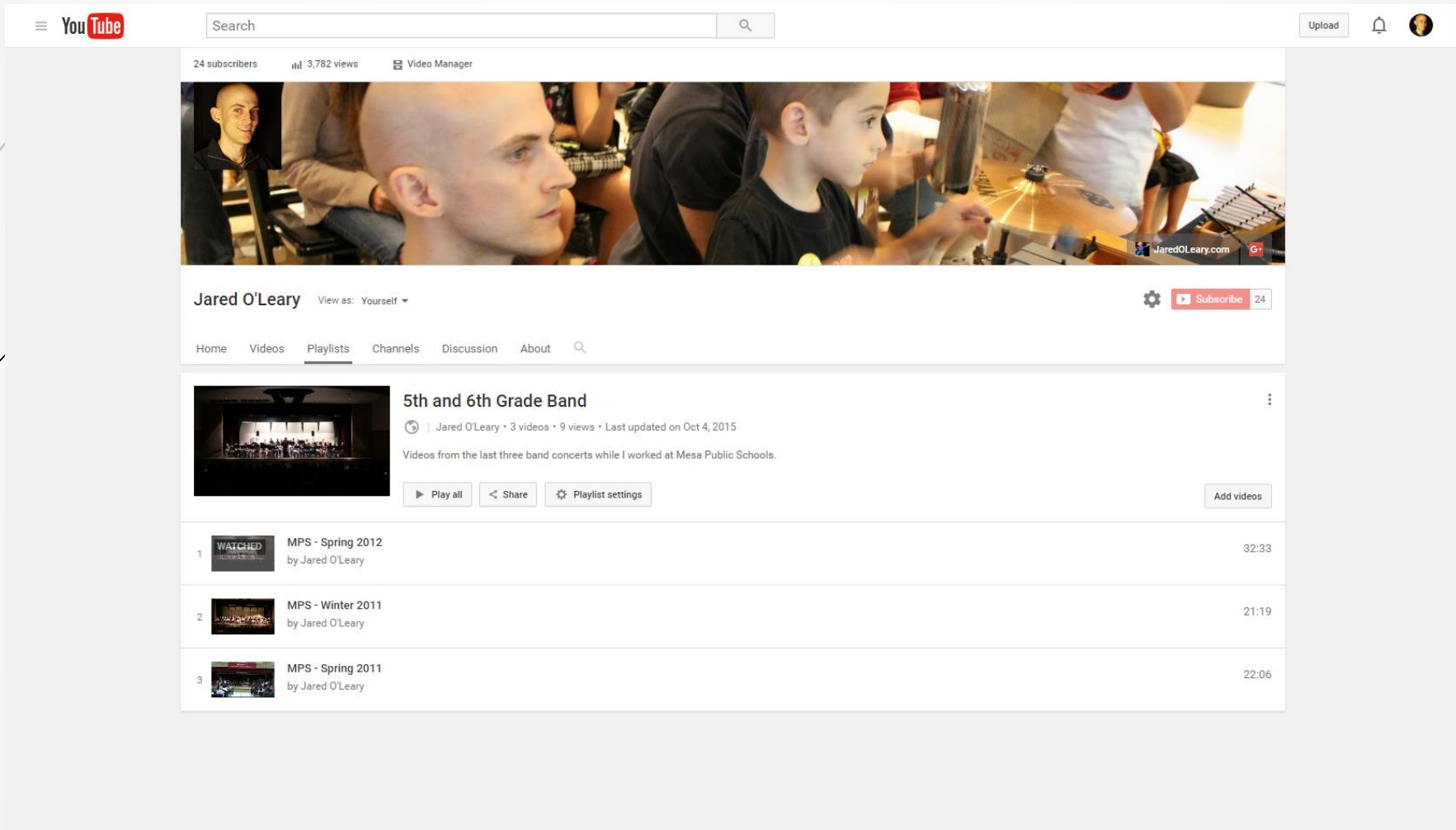
The screenshot shows a YouTube video player interface. The main video is titled "Cash Me Outside, How Bow Dah" [BYOS] by Ralph Nader. The video content is split: the left side shows a close-up of a woman's face, and the right side shows a man in a black jacket and cap playing a drum. The video has 905,857 views, 9,479 likes, and 353 dislikes. Below the video, there are options to "Add to", "Share", and "More". A "Participatory culture" playlist is visible on the right side of the player, containing 6/54 videos. The playlist items are:

- "Cash Me Outside, How Bow Dah" [BYOS] by Ralph Nader
- Eminem | Not Afraid | Arthur Mashup by isthisshowyougoviral
- Life Accordion To Trump by Huw Parkinson
- The Last Guardian Trailer Remake (with the Cutest Pug) by IGN
- Epic Fall Vines - Hollaback Girl (Funny) by Mario Ibarra
- Linkin Bark - Numb by rooland87

# Augmenting an elementary ensemble



# Augmenting an elementary ensemble



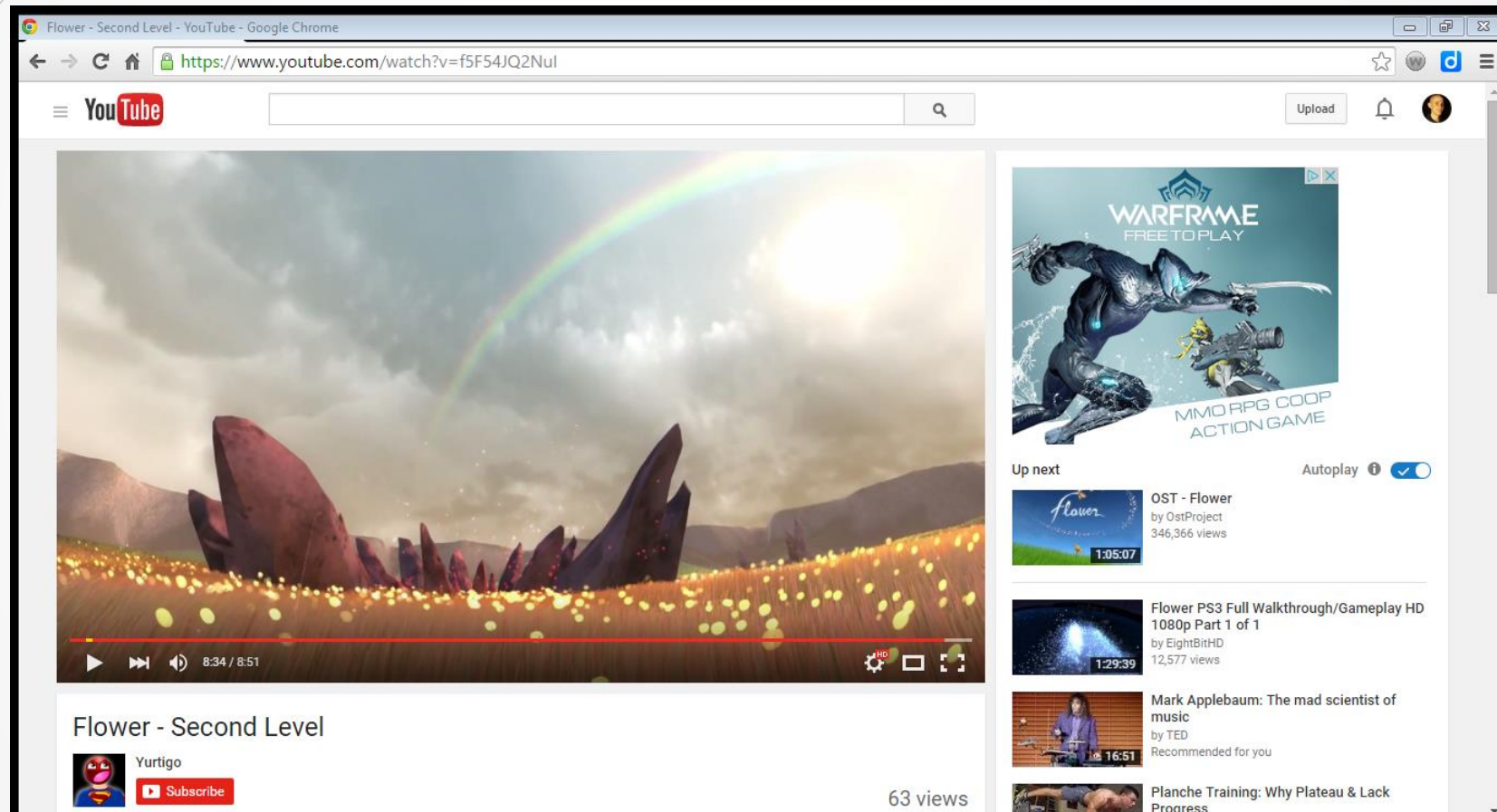
The image shows a screenshot of a YouTube channel page for Jared O'Leary. The channel has 24 subscribers and 3,782 views. The main video thumbnail shows a man and a young boy playing drums. Below the channel name, there are navigation tabs for Home, Videos, Playlists, Channels, Discussion, and About. The 'Playlists' tab is selected, showing a playlist titled '5th and 6th Grade Band' with 3 videos and 9 views. The playlist description reads: 'Videos from the last three band concerts while I worked at Mesa Public Schools.' Below the playlist title, there are buttons for 'Play all', 'Share', and 'Playlist settings'. The playlist contains three videos:

Video Title	Duration
1. MPS - Spring 2012 by Jared O'Leary	32:33
2. MPS - Winter 2011 by Jared O'Leary	21:19
3. MPS - Spring 2011 by Jared O'Leary	22:06

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# Augmenting a video game



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How might the music and sound differ in other spaces or places?

Limbo Gameplay (PS4 HD) [1080p] - YouTube - Google Chrome

https://www.youtube.com/watch?v=aZs2RoF24oc

Subscribe!

Playdead Presents  
A GAME BY ARNT JENSEN

**LIMBO**

LOADING

0:20 / 8:07

Limbo Gameplay (PS4 HD) [1080p]

Throneful 141,562

23,612

**THE NEW WALKING TACO**  
A NEW WAY TO AFTERSCHOOL SNACK

UPLOADED

UPLOADED

UPLOADED

UPLOADED

Up next

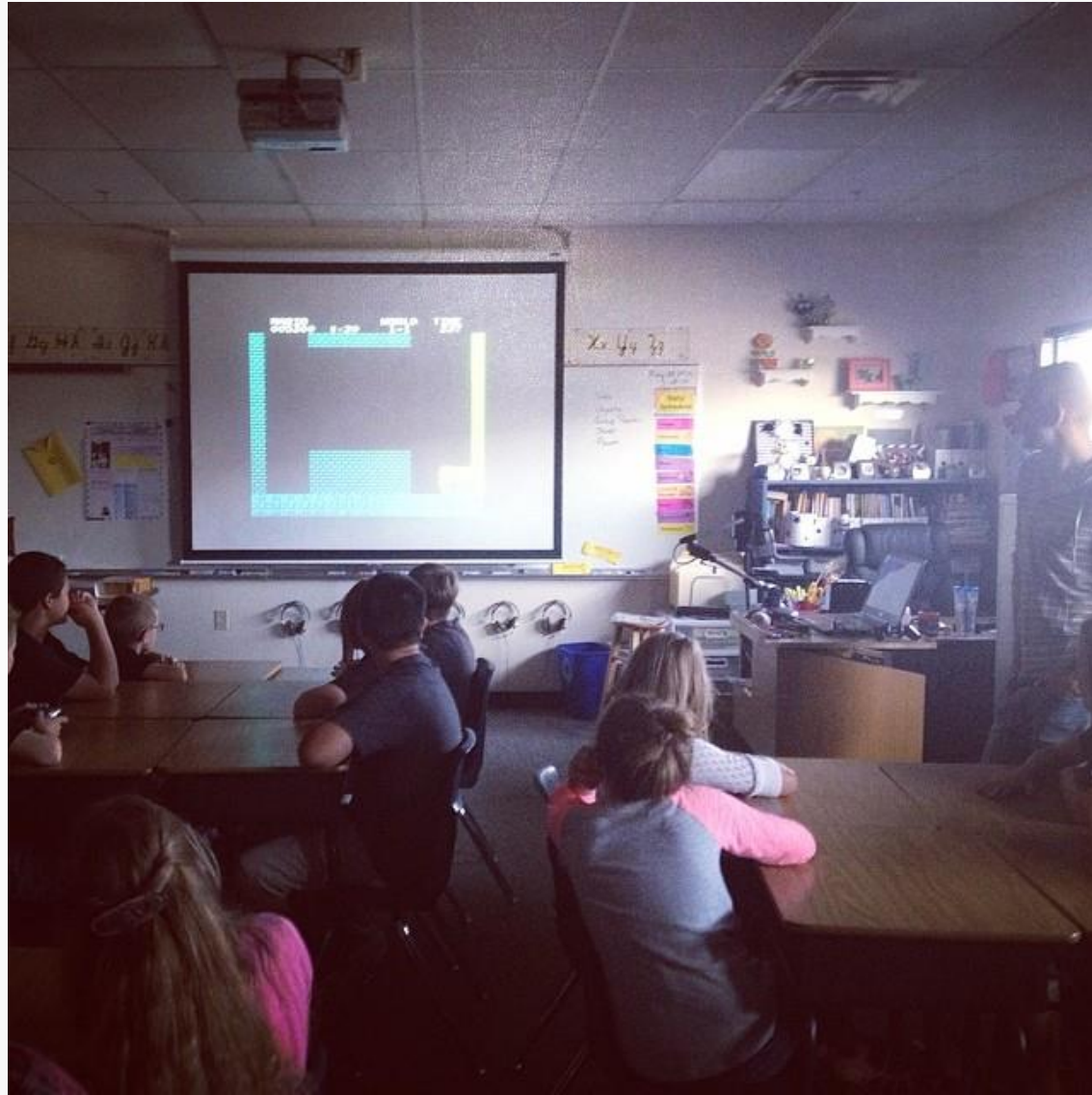
Autoplay

Limbo full game (no death)  
by sutiibukun  
243,050 views  
51:12

Warframe Gameplay (Xbox One HD) [1080p]  
by Throneful  
5,089 views  
14:41

Hustle Kings Gameplay (PS4 HD) [1080p]  
by Throneful  
5,528 views  
7:46

Dragon Ball: XenoVerse Gameplay (PS4 HD) [1080p]



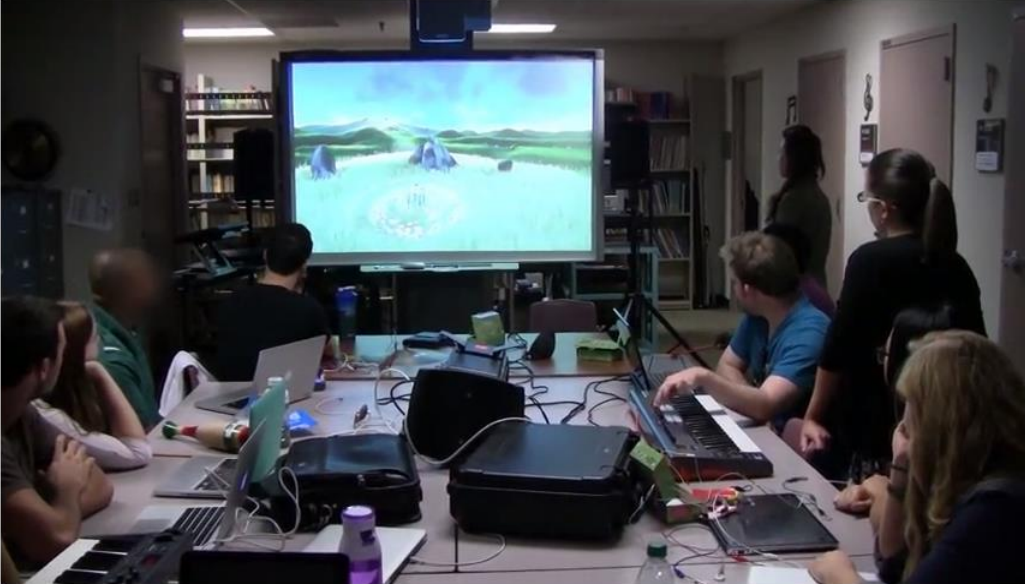
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# Exploring music education implications in secondary general music



The screenshot shows a YouTube video player in a Google Chrome browser. The video content depicts a classroom where several students are seated at a long table, focused on their laptops. In the background, a large projection screen displays a Minecraft game. The video player interface includes a search bar, a video title, and a list of recommended videos on the right side.

Video Game Sharing and Discussion - YouTube - Google Chrome  
https://www.youtube.com/watch?v=GZzCCmLsY48&feature=youtu.be

YouTube

How I proposed through a Minecraft mod by Jared O'Leary 223 views 19:04

Owen Campbell - Angry Busker - Australia's Got Talent 2012 audition 3 [FULL] by HipToeKnee Recommended for you 7:28

this drummer is at the wrong gig by elabjer Recommended for you 4:47

Flaccenting arranged by Jared O'Leary by Jared O'Leary 348 views 2:24

Salty Peanuts by Jared O'Leary by Jared O'Leary 465 views 2:08

Using Coaches Eye in music education by Jared O'Leary 115 views 1:44

Last Call arranged by Jared O'Leary by Jared O'Leary 880 views 1:37

Analytics Video Manager

Video Game Sharing and Discussion

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# Augmenting a community ensemble

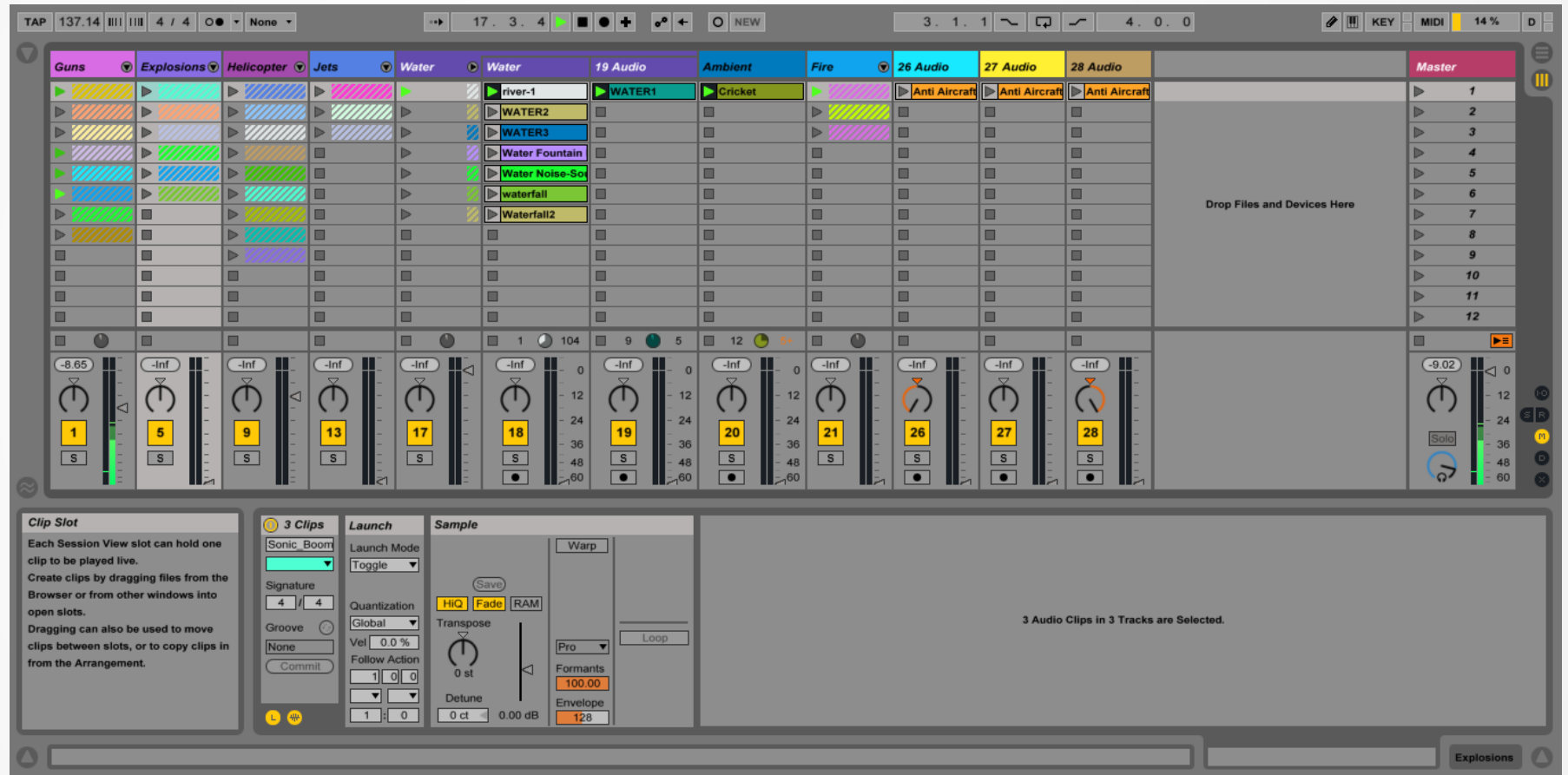
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# Augmenting a community ensemble



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# Augmenting a community ensemble





# Augmenting a community ensemble

**Rainforest - soft**

1  
Percussion Congas

7 Flutes then voices 8 9 10 Timpani and flashlights 11 12 13 Voices up 14

15 15 16 17 18 19 20 21 22  
Voices down Trumpet Clarinet and flute Flashlights

23 Creepy sounds 24 25 26 27

Soft creepy sounds  
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43  
Clarinet solo

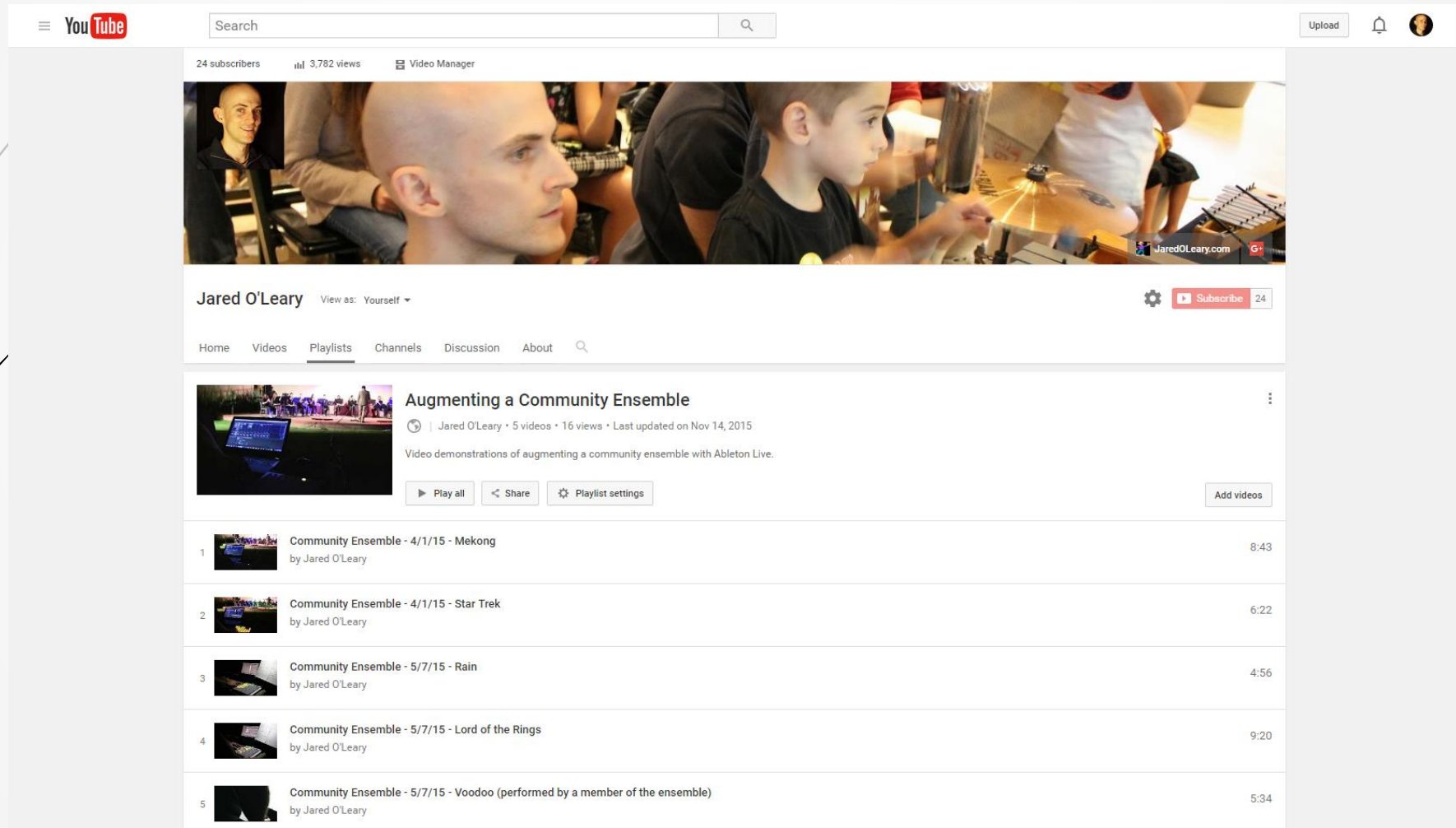
44 44 45 46 47 48 49  
More ensemble flute added

50 51 52 53 54 55

56 57 58 59 60 61 62 63  
flute fade

64 65 66 67 68 69 70  
blinking lights blinking lights

# Augmenting a community ensemble



The screenshot shows the YouTube channel page for Jared O'Leary. The channel has 24 subscribers and 3,782 views. The main video is titled "Augmenting a Community Ensemble" and is part of a playlist of the same name. The playlist description states: "Video demonstrations of augmenting a community ensemble with Ableton Live." The playlist contains five videos:

Video Title	Duration
1. Community Ensemble - 4/1/15 - Mekong	8:43
2. Community Ensemble - 4/1/15 - Star Trek	6:22
3. Community Ensemble - 5/7/15 - Rain	4:56
4. Community Ensemble - 5/7/15 - Lord of the Rings	9:20
5. Community Ensemble - 5/7/15 - Voodoo (performed by a member of the ensemble)	5:34

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# Augmenting programmatic music

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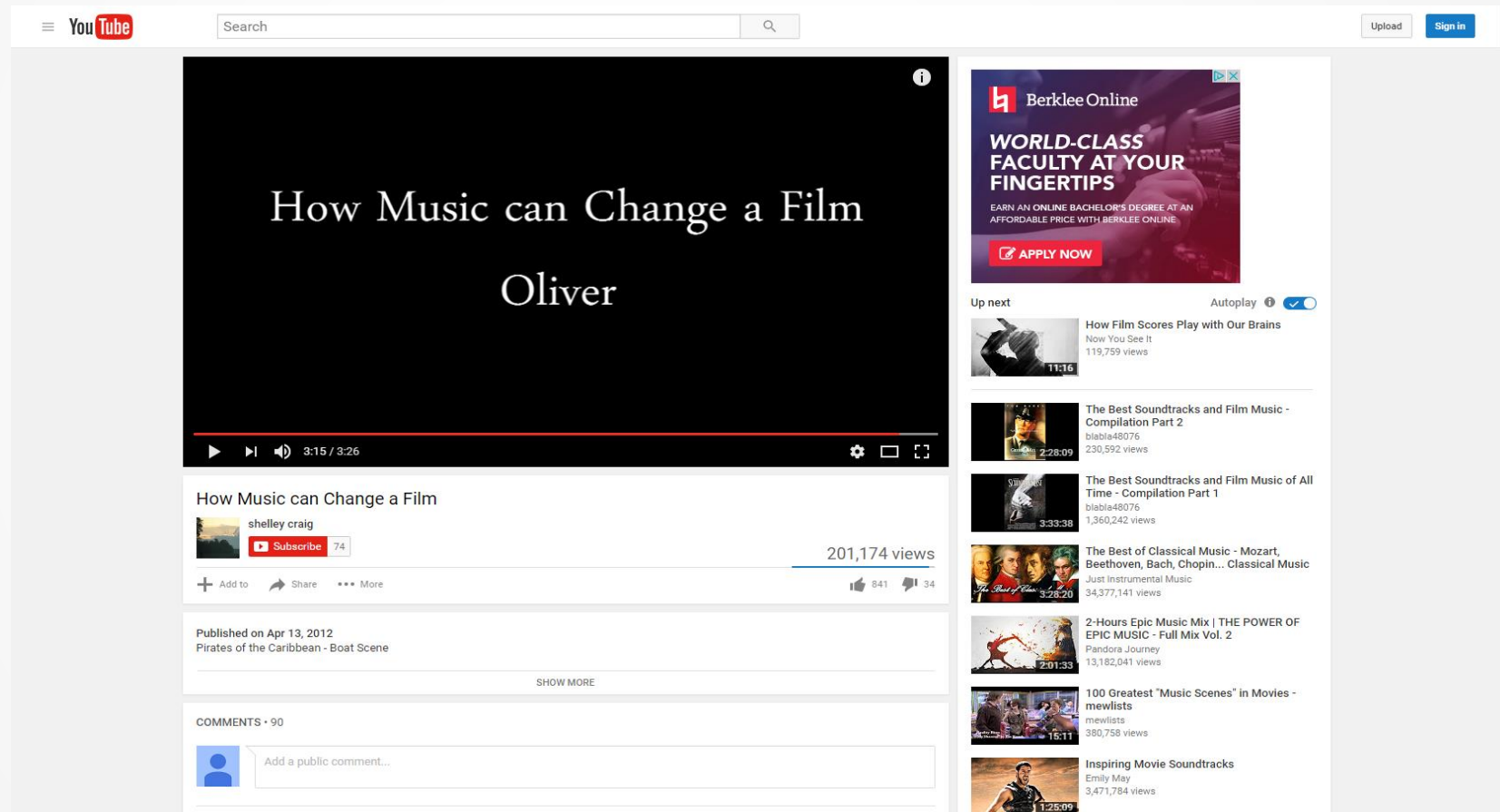




# Some questions for consideration

- ▶ What music could we augment today?
  - ▶ Is it already programmatic or will we make it programmatic?

# Should we augment the original meaning or create new meanings?



The image shows a screenshot of a YouTube video player. The video title is "How Music can Change a Film" by Oliver. The video player shows a black screen with white text. Below the video player, the video title "How Music can Change a Film" is displayed, along with the channel name "shelley craig" and a "Subscribe" button with 74 subscribers. The video has 201,174 views. The video description includes "Published on Apr 13, 2012" and "Pirates of the Caribbean - Boat Scene". There are 90 comments. To the right of the video player, there is a sidebar with an advertisement for Berklee Online and a list of recommended videos.

**Berklee Online**  
WORLD-CLASS FACULTY AT YOUR FINGERTIPS  
EARN AN ONLINE BACHELOR'S DEGREE AT AN AFFORDABLE PRICE WITH BERKLEE ONLINE.  
APPLY NOW

Up next Autoplay

- How Film Scores Play with Our Brains  
Now You See It  
119,759 views  
11:16
- The Best Soundtracks and Film Music - Compilation Part 2  
biabla48076  
230,592 views  
2:28:09
- The Best Soundtracks and Film Music of All Time - Compilation Part 1  
biabla48076  
1,360,242 views  
3:33:38
- The Best of Classical Music - Mozart, Beethoven, Bach, Chopin... Classical Music  
Just Instrumental Music  
34,377,141 views  
3:28:20
- 2-Hours Epic Music Mix | THE POWER OF EPIC MUSIC - Full Mix Vol. 2  
Pandora Journey  
13,182,041 views  
2:01:33
- 100 Greatest "Music Scenes" in Movies - newlists  
mewifats  
380,758 views  
15:11
- Inspiring Movie Soundtracks  
Emily May  
3,471,784 views  
1:25:09



# Some questions for consideration

- ▶ What music could we augment today?
  - ▶ Is it already programmatic or will we make it programmatic?
  - ▶ Should we stick with the original meaning or create new meanings?
- ▶ What technology or tools might we use to augment the music?
- ▶ How might we collaborate or work independently?
- ▶ What might we consider for preparing, practicing, and performing?





# Let's create

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# Let's talk

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# Some questions we might discuss

- ▶ What could/n't be learned by augmenting music?
  - ▶ In terms of music and sound
    - ▶ Recording, sampling, designing, etc.
  - ▶ TPACK?
- ▶ When could/n't we augment music?
- ▶ What resources are/n't needed?
- ▶ Where could/n't an experience like this occur?
- ▶ When is it legal/illegal to augment music?



# Let's talk

- ▶ [www.JaredOLEary.com](http://www.JaredOLEary.com)
  - ▶ Presentations
  - ▶ Augmenting Programmatic Music

