

Weekly Questions:

What are your goals for today's class?

How do media artists generate ideas?

What to do when you need help:

Project Options:

[Build Something with an Arduino](#)

[Code Your Own Music](#)

[Create Your Own Project](#)

[Design Your Own Interface \(MaKey MaKey\)](#)

[Everyday Object Drum Beat](#)

[Foley Project \(Adding your own sounds, music, and dialogue to pre-recorded media\)](#)

[Interactive Story](#)

[Original Piece of Music](#)

[Modular Synthesizer](#)

[Music Video Project](#)

[Pixel Art Project](#)

[Short Film](#)

[Speech Sampling Project](#)

[Stop Motion Movie](#)

[Take Apart and Rebuild Something](#)

[Tutorial Project](#)

[Video Game Project](#)

[Website Project](#)

Build Something with an Arduino

- Start off by going through each project that the Arduino comes with (don't skip any as they get progressively harder)
 - [Here is a playlist of someone walking you through each project](#)
 - Call me over so I can disable the firewall on YouTube
 - Watch the video and pause after each step that is demonstrated
 - *Let me know if I should create a tutorial to make it even easier to follow*
- When looking at the code ask the following:
 - What could you change in the code or in what you built to make the Arduino function differently?
 - What do you want to create that you could use an Arduino for?
 - What else could you create using the parts in the arduino box?
 - How could you use the Arduino to make the world a better place?

Code Your Own Music

- Create your own music through live coding with Sonic Pi
 - Press “command” and “spacebar” (or click on the magnifying glass on the top right corner of the screen) then type in “Sonic” to find the program.
 - Read through the tutorials to learn how to use the program
- When creating your own music ask the following:
 - What style of music can you make through coding?
 - Can you make a drumbeat or melody that changes every time you hear it?
 - Will your music sound the same way every time it is played, or will it sound differently every time you run the code?
 - How do the audio effects change the way your music sounds?
 - What parameters can you use to shape the sounds you are coding?

Create Your Own Project

- Talk with me about a project you are interested in creating

Design Your Own Interface (MaKey MaKey)

- Create and code an interface that allows you to do something in Scratch (e.g., musical instrument, video game controller, keyboard, etc.)
- Questions to ask:
 - What do you want the interface to do?
 - What don’t you want your interface to do?
 - Are there interfaces similar to the one you are thinking of designing?
 - If so, what would you change about them to make your own?
 - If not, what ideas can you borrow from other interfaces?
 - What materials conduct electricity and how could you use them?
 - What materials don’t conduct electricity and how could you use them?
 - Will you use JavaScript or Scratch to program your interface?

Everyday Object Drum Beat

- Record samples of everyday objects (e.g., items from your backpack, stuff in the room, etc.) to create a drum beat
- Questions to ask:
 - What software can you use to create this project?
 - Will you do audio only or will you include video?
 - If you use video, how will you show what is making the sound?
 - What objects can be used to make unique sounds?
 - How can those sounds be used in a beat?
 - Will this be a drum beat you’ve heard before, or will it be original?
 - When can you use a drum beat someone else already made?

Foley Project (Adding your own sounds, music, and dialogue to pre-recorded media)

- Add your own sounds, music, and dialogue to a movie scene, commercial, tv show, film clip, video game, etc.
- Questions to ask:
 - What pre-recorded media would be interesting to change the sound, music, and dialogue for?
 - What software will help you with this project?
 - When should you keep the original intent of the pre-recorded media?
 - When should you change it to mean something else?
 - What type of mood can make with the audio and video?

- Can you make it funny, sad, happy, scary, exciting, boring, etc.?

Interactive Story

- Create an interactive story
- Questions to ask:
 - How could visuals enhance the story?
 - How could sounds enhance the story?
 - Who would be interested in the story?
 - How will people interact with your story?
 - Will it be a lot of interaction or a small amount?

Original Piece of Music

- Create an original piece of music using the software and hardware available in the lab
- Questions to ask:
 - How long does it need to be?
 - What music software do we have that can help you with this project?
 - What style of music could you create?
 - When is using someone else's musical ideas ok?
 - When isn't it ok?

Modular Synthesizer

- Design and perform with a modular synthesizer using the Little Bits synth kit
- Questions to ask:
 - How can you use a modular synthesizer to make music?
 - How does the order of the modules change the sound you can make?
 - How do the different modules change the sound you can make?
 - How does making music like this differ from making music with GarageBand or in your music class at school?

Music Video Project

- Create a music video
- Questions to ask:
 - What software do we have that could be used to make music for the video?
 - What software do we have that could be used to make the video?
 - When can you use someone else's music for a music video?
 - When can you use someone else's images for a music video?
 - How can the video line up with the music?

Pixel Art Project

- Create a piece of pixel art (8-bit art that uses only squares - think of old video games)
- Questions to ask:
 - What imagery do you want to turn into pixel art?
 - What software on the computer or online can be used to create pixel art?
 - How do people make unique pixel art creations?
 - What makes pixel art unique?
 - Will the pixel art move or stay still?
 - How could you make it move?
 - Can you create this from coding?

Short Film

- Create a short film
- Questions to ask:
 - How can you create a short film with the hardware and software in the class?
 - What have others done in their short films that makes them unique?
 - How long does the short film have to be to answer the question?
 - What kinds of sounds/effects can you add to enhance the short film?
 - Can you make this film by coding?

Speech Sampling Project

- Create an original piece of music using samples from a famous speech and the software and hardware available in the lab
- Questions to ask:
 - How can samples from famous speeches be used?
 - What music software do we have that can help you with this project?
 - What style of music could you create ?
 - When is using someone else's sample ok?
 - When isn't it ok?

Stop Motion Movie

- Create a stop motion movie
- Questions to ask:
 - How can you create a stop motion movie with the hardware and software in the class?
 - What have others done in their stop motion movies that makes them unique?
 - What can you do in a stop motion movie that you cannot do in a regular movie?
 - How long does the stop motion movie have to be to answer the question?
 - What kinds of sounds/effects can you add to enhance the stop motion movie?

Take Apart and Rebuild Something

- Using the tools in the back area, take apart and rebuild something from the back cabinet
 - Note that you need to put back together whatever it was you took apart so others can work on the project on a following class
- Questions to ask:
 - How do you think each component/module/section of the technology contributes to its overall function?
How does/n't the design take into consideration how the technology is used?
 - What would you do differently if you had the opportunity to create your of version of this piece of technology
 - What questions do you have about how it is constructed?
 - Where could you go to find out more information about how and why it was constructed the way it was?

Tutorial Project

- Create a tutorial that explains how media/technology
- Questions to ask:
 - What kinds of tutorials are there?
 - When is a tutorial helpful?
 - What makes a good tutorial?
 - How long should the tutorial be?
 - Is there a tutorial out there that already does what I was thinking of doing?
 - If so, what can I do to make an even better tutorial?
 - Who do you want to use the tutorial?

- Where will you distribute the tutorial?

Video Game Project

- Create your own video game
- Questions to ask:
 - What kinds of video games have been made using JavaScript?
 - How could other video games be used as a model for what you want to create?
 - What kinds of interaction do you want the user to have with the game?
 - What kinds of characters, objects, environments, or themes would work well for your game?
 - Will there be multiple levels/stages/environments, or will it be in one area?
 - What kinds of functions can you use to make it so you write less code?

Website Project

- Create your own website using html and CSS
- Questions to ask:
 - What makes a good website?
 - Why would someone want to visit your website?
 - Who would you want to visit your website?
 - How does html and CSS allow you to design your website?
 - What do you want to do with your website that you are unsure if html or CSS can do?
 - How can you use JS with your website to make it even more interactive?

What to do when you need help:

1. Check the built-in help or resources
2. Ask a friend for help and use questions found on our website
3. Ask another friend for help
4. If I'm not working with someone, ask me for help.
 - a. If I'm working with someone, repeat steps 1-3