

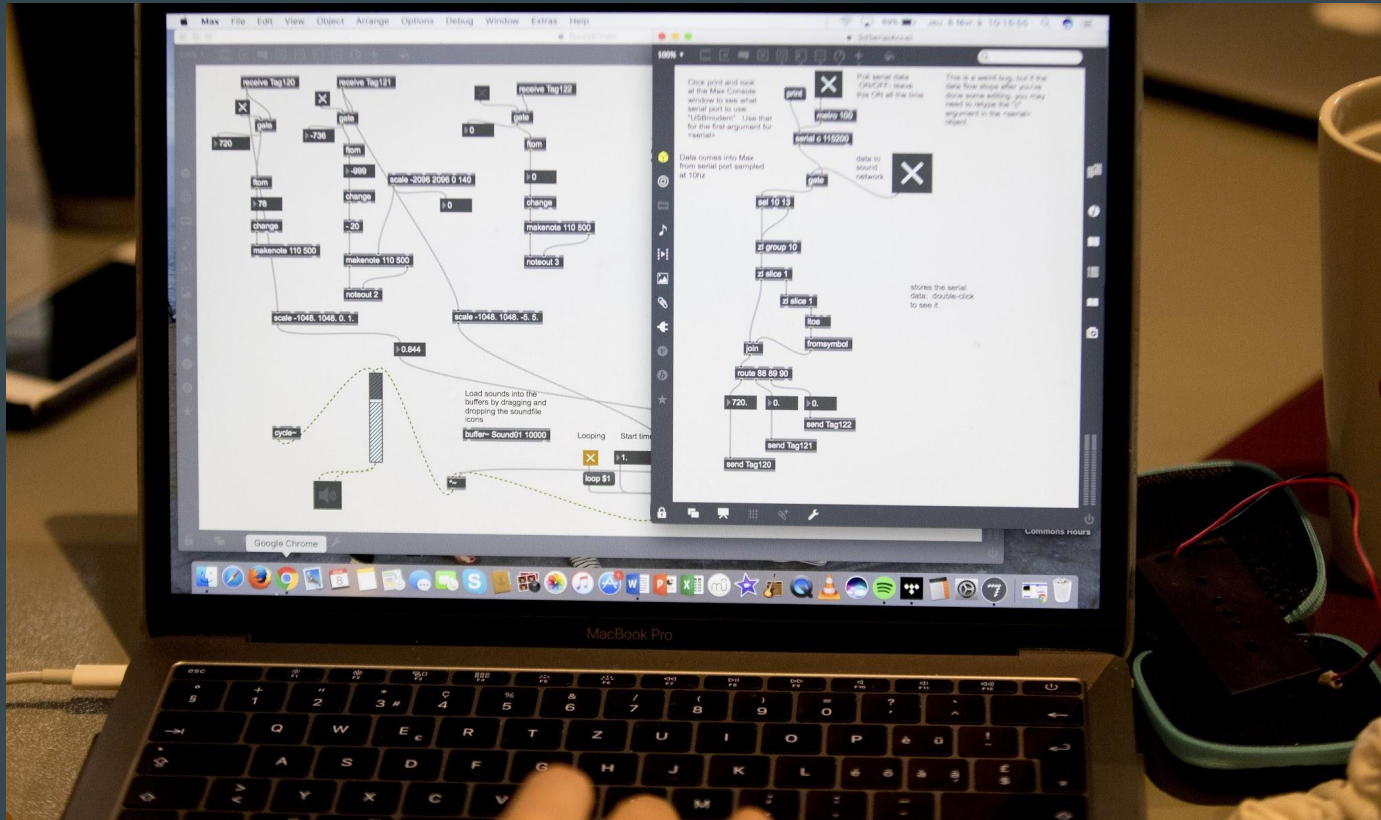
# Choreography, Composition, and Code



# Design of Digital/Comp Systems



# Computers, Music and the Arts



# Advanced Composition Seminar



# Collaboration Across Disciplines

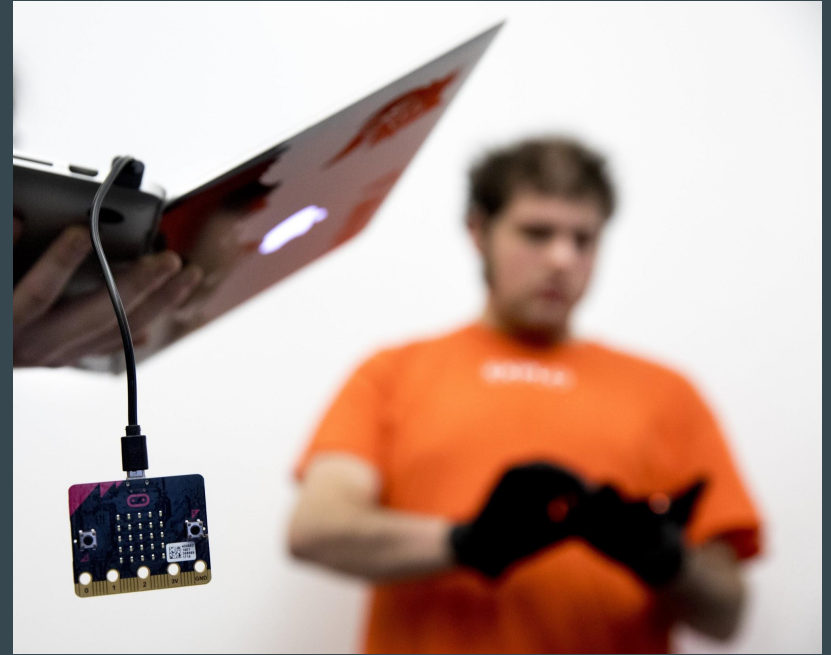
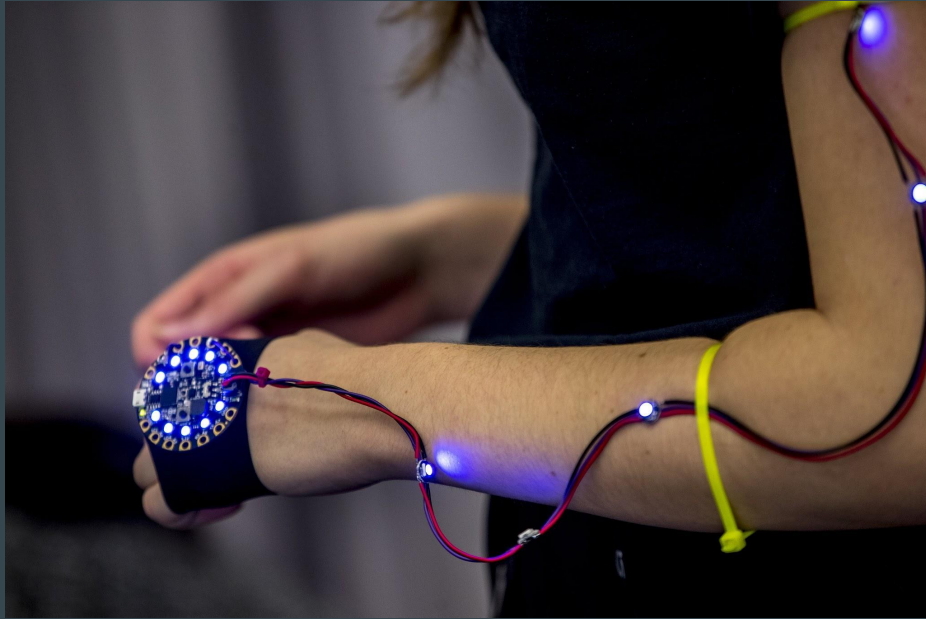


# Collaborators



Collaborators: DCS 102, MUS 241, DANC 351, Bates Dance Festival, Learning Associates Erica Mott (Chicago, IL), Ryan Ingebritsen (Chicago, IL) and Ahmed Saleh (Alexandria, Egypt)

# Sensing and Coding



# Coding with sensor data

The screenshot displays the Adafruit Blocks IDE interface. At the top, there are navigation links for 'adafruit', 'HOME', 'BLOCKS', and 'JAVASCRIPT', along with a help icon, a settings gear, and the Microsoft logo. The main workspace is divided into three sections:

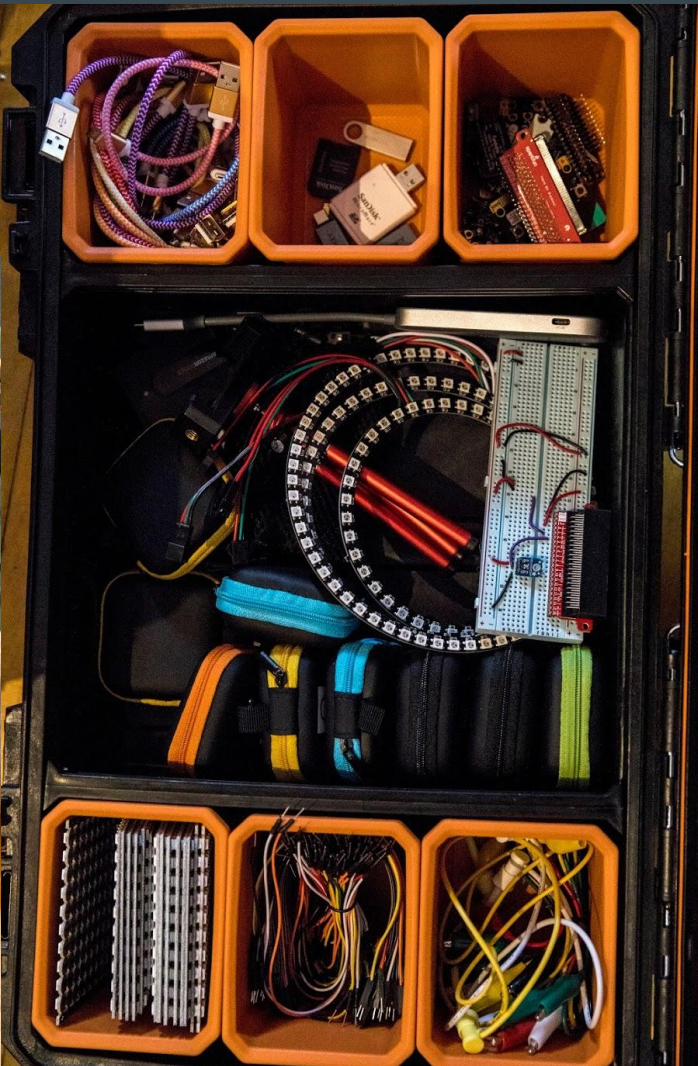
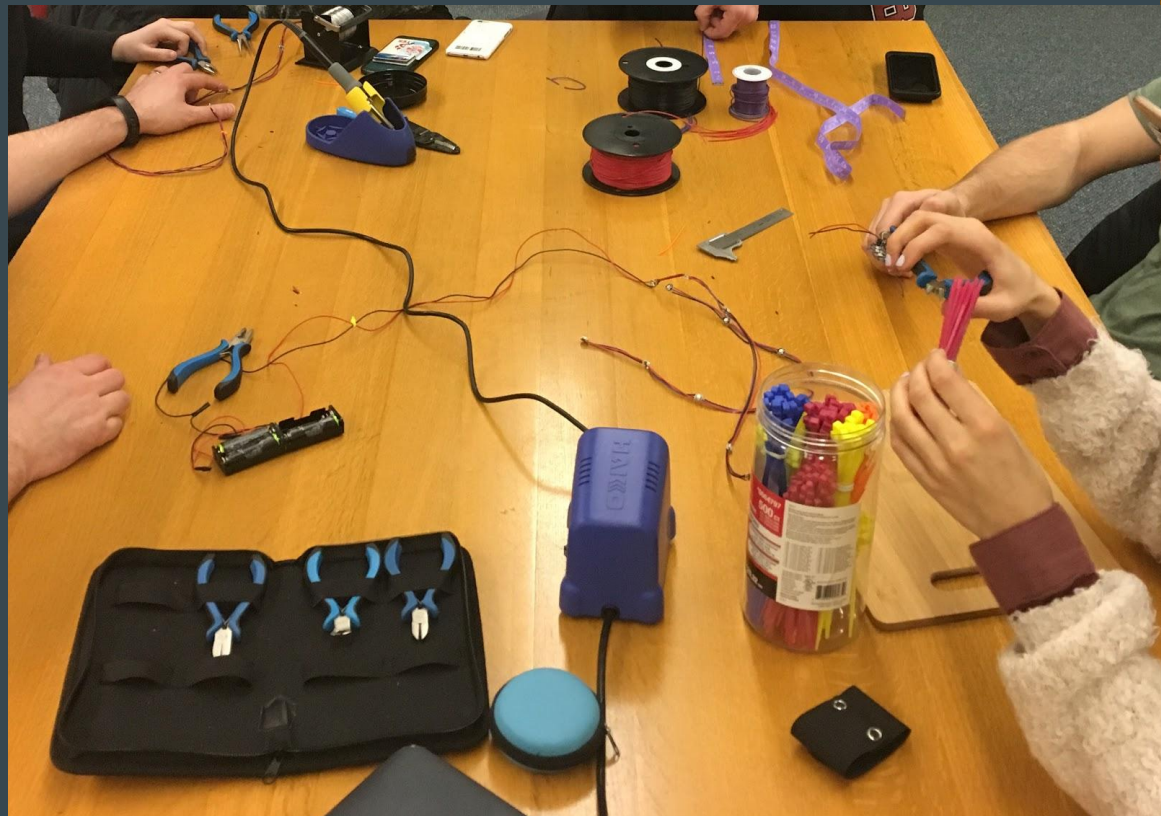
- Left Panel:** A top-down view of a circular NeoPixel ring with various pins labeled (e.g., GND, 5V, TX, RX, A0, A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100, A101, A102, A103, A104, A105, A106, A107, A108, A109, A110, A111, A112, A113, A114, A115, A116, A117, A118, A119, A120, A121, A122, A123, A124, A125, A126, A127, A128, A129, A130, A131, A132, A133, A134, A135, A136, A137, A138, A139, A140, A141, A142, A143, A144, A145, A146, A147, A148, A149, A150, A151, A152, A153, A154, A155, A156, A157, A158, A159, A160, A161, A162, A163, A164, A165, 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A996, A997, A998, A999, A1000). Below the ring are icons for a square, refresh, share, volume, and camera.
- Center Panel:** A search bar and a vertical menu of categories: LIGHT, INPUT, MUSIC, NETWORK, LOOPS, LOGIC, VARIABLES, MATH, and ADVANCED.
- Right Panel:** A JavaScript code block with the following logic:

```
forever
  set volume 0
  stop all sounds
  set Accel to acceleration (mg) z
  set left to create strip on A3 with 10 pixels
  while acceleration (mg) z >= 0
    do
      left set pixel color at 0 to orange
      left rotate by 1
    pause 100 ms
  while acceleration (mg) z <= 0
    do
      left set pixel color at 0 to cyan
      left rotate by 1
    pause 200 ms
```

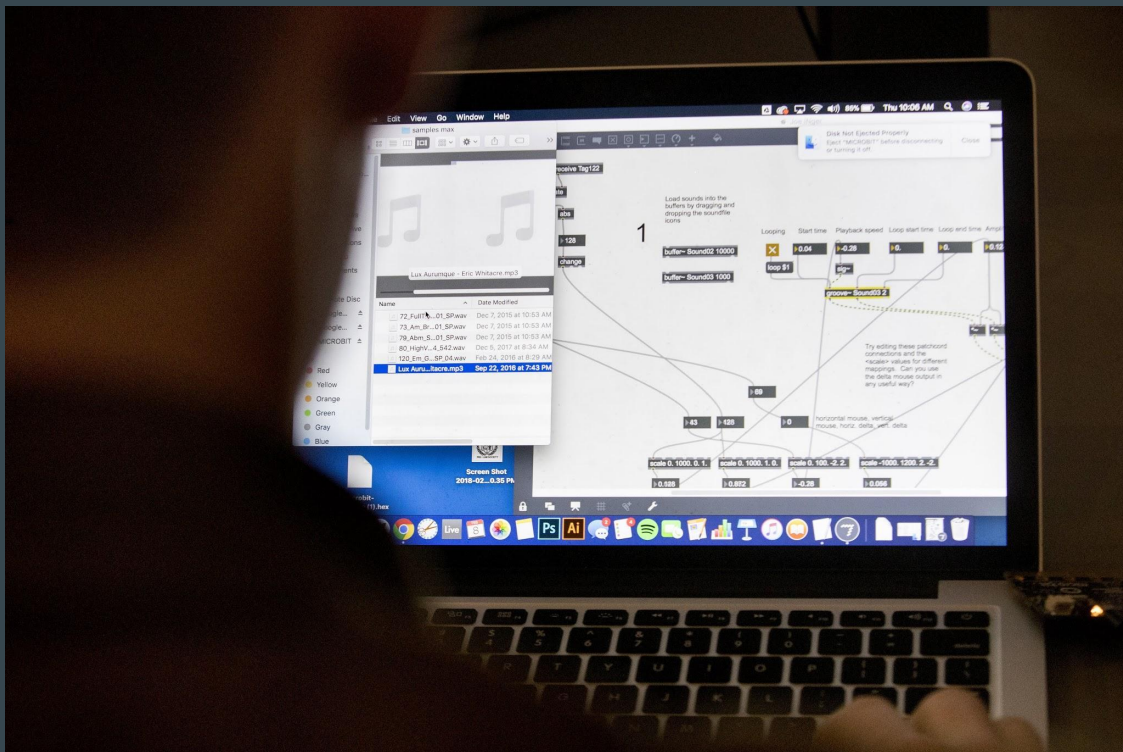
At the bottom, there is a 'Download' button, a text input field containing 'New neo', and navigation icons for back, forward, home, and refresh.



# Building Wearable Electronics



# Working with Max and Max for Live



<https://architectofsound.wordpress.com/2016/10/24/introducing-10-patches-from-max-msp-visual-programming-language-for-music-and-multimedia/>

# Composing Music with sensor data



# Choreographing with Sensors and Interactive Music



# Choreography Demonstration



# Ideas for the future

1. Increasing interdependence
2. A more permanent costume
3. Commitment to a more formal theme or concept

Questions:

→ How did movement affect the music?

↳ I am curious about how we can see this more visibly.

2. What's the theme?  
Light here any meaning?

# Thank you!

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