Earsketch Activity: Coding with Music!

- Go to earsketch.gatech.edu/earsketch2/
- Get familiar with the environment!
 - a. Create a user account to save work regularly
 - b. Code Editor: Write code here!
 - c. Run button: When you're done, click run!

- d. Shows errors and warnings in the console, and creates music in Digital Audio Workstation
- e. **Curriculum**: If you want to explore more, you can read the chapters!
- f. Sound browser: choose your sounds!







3. Get Started!

- a. Create a new Python script
- b. Take a look at the gray lines with #.
 These are comments and don't affect code!
- c. set(120) is the tempo of your song!
- d. Use the fitMedia function to add a sound!
 - i. fitMedia(sound name, track number, start, end)

- for sound names,

go to the sound browser, use the filters:



and you can play sounds as preview,



and copy their name by clicking here:



4. Add Effects

- a. Use the set Effect function!
- b. setEffect(track number, effect type, effect parameter, value)
 - i. Ex setEffect(1, VOLUME, GAIN, -20) will make track one be -30dB. This will make it quieter!
- c. OR setEffect(track number, effect type, effect parameter, start value, start measure, end value, end measure)
 - i. Ex setEffect(1, VOLUME, GAIN, -30, 1, 0, 2) will make track 1 be -30dB (quieter!) at the beginning and normal at measure 2!
- d. Other effects are REVERB, DELAY, and more! Explore curriculum and effects to find them!

5. Add some beats!

- a. Select your beat sound!
 - i. Sound Browser -> Artist Filter-> makeBeat
- b. Create a beat string of 16 characters.There are 3 possible characters
 - i. '0' will play the sound
 - ii. '+' continues sound
 - iii. '-' silence
 - iv. Ex "0+--0+--0-0'
- c. Use the makeBeat Function
 - i. makeBeat(sound name, track number, start measure, beat string)