## EarSketch – engageCS

## Going deeper in the curriculum

March 2017

## 1. Possible exercises

The conclusion of the session is an invitation for students to create their own songs. You can have additional elements for students interested in going deeper:

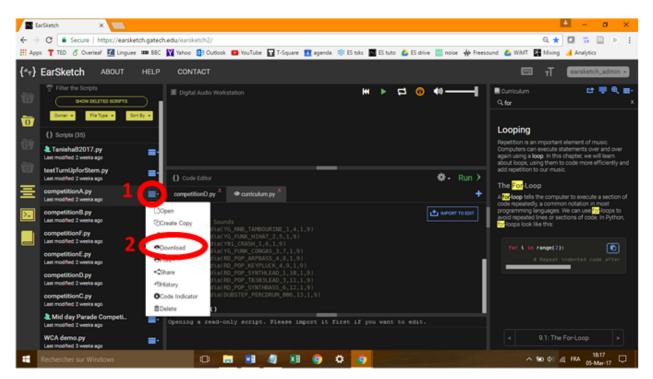
- Students can add loops. This can be done using the makebeat command. After reading the appropriate paragraph (see chapter https://earsketch.gatech.edu/earsketch2/?curriculum=2-1-0), they can have the makeBeat() repeat for several measures (a measure is the musical time unit). A bonus exercise for highest achieving students: try to have a makeBeat() only in every other measure (answer: inside the makeBeat function, type 2\*I where I is the iteration counter).
- Students can also insert variables. After looking at the paragraph on variables (https://earsketch.gatech.edu/earsketch2/?curriculum=1-2-4), they can have variables for their sound names, instead of using them directly.
- For students who feel comfortable, they can also learn about functions (see chapter https://earsketch.gatech.edu/earsketch2/?curriculum=2-2-0), and create functions for each sections of their songs.

## 2. Converting a script to MP3

To convert your script to an MP3 file, follow these instructions:

• Go to the script section:

	ch.gatech.edu/earsketch2/ 🎟 88C 🙀 Yahoo 🚱 Outlook 💶 YouTube 🖬 T-Square 👥 a	genda 😻 ES tsks 👿 ES tuto 🔥 ES drive 📃 noise 🌵 Free	Q ★ 🖾 🚡 📄 🕨 sound 🔥 WMT 🌃 Mixing 🚄 Analytics
*} EarSketch ABOUT	HELP CONTACT		T earsketch_admin
Filter the Scripts     Server DELETED SCHIPTS     Owner      File Type     Sert	32 Digital Audio Workstation	₩ ► C2	E Curriculum 🗠 🕎 🔍 Q. for
Scripts (35)			Looping Repetition is an important element of music.
Last modified 2 weeks ago	=		Computers can execute statements over and over again using a loop. In this chapter, we will learn about loops, using them to code more efficiently a
testTurnUpforStem.py Last modified 2 weeks ago	=- () Code Editor	💠 Run 🔾	add repetition to our music. The For-Loop
competitionA.py Last modified 2 weeks ago	competitionD py X @ curriculum.py X	+	A for loop tells the computer to execute a section
competition8.py Last modified 2 weeks ago			<ul> <li>coide repeatedly a common notation in most programming languages. We can use to loops to avoid repeated lines or sections of code. In Python loops look like this:</li> </ul>
Last modified 2 weeks ago	21 #fitNedia(YG_FUNK_HIHAT_2,5,1,9) 22 #fitNedia(Y01_CRASH_1,6,1,9)		for L in range(2):
competitionE.py Last modified 2 weeks ago	<ul> <li>#fitMedia(YG_FUNK_CONGAS_3,7,1,9)</li> <li>#fitMedia(RD_POP_ARPBASS_4,8,1,9)</li> <li>#fitMedia(RD_POP_KEYPLUCK_4,9,1,9)</li> </ul>		# Repeat indented code after
competitionD.py Last modified 2 weeks ago	26 efitHedia(RD_POP_SYNTHLEAD_1,10,1,9) 27 efitHedia(RD_POP_TE303LEAD_3,11,1,9) 28 efitHedia(RD_POP_SYNTHEAS5_6,12,1,9)		
competitionC.py Last modified 2 weeks ago	29 #fitMedia(DUBSTEP_PERCORUM_006,13,1,9 30 31 finish()	·	
& Mid day Parade Competi Last modified 2 weeks ago	<ul> <li>Opening a read-only script. Please import</li> </ul>	it first if you want to edit.	·
WCA demo.py Last modified 3 weeks ago	=-		< 9.1: The For-Loop >



• Then open the menu for the script you want to convert to mp3, and click on download:

• This will open this window (shown below), then click on the download sign in the mp3 line:

