# Music 15

## Lecture 2

Wednesday, Jan 22, 2020

# Lecture Outline

1.  **Announcements**

2.  **Section Information**

3.  **Terminology from Main Lecture**

4.  **Assignment 1 Overview**

    a.  Arpeggios, Melody, Bass, Extras

5.  **One-on-one help**

    a.  Please help someone in need if you are finished

# Announcements

- <u>Assignment 1</u>: DUE by 11:59 pm this Friday, Jan 24.

# Section Information

- **Is anyone new to this section?**

    - Please mark the sign-in sheet to receive credit for attendance

    - **Section Webpage**: chadmckell.com/mus15. Lecture slides and other section material will be posted here. To get caught up, please read last week's lecture slides and install LMMS.

- **Absence policy**

    - If you are sick or injured and cannot attend the section, please send me an email explaining your situation in order to receive credit for attendance. If it's a recurring issue, please provide a doctor's note.

- **To access the computer lab in CPMC 204, please fill out this form:**

    - http://music.ucsd.edu/keys

# Terminology from Main Lecture

Chiptune

Tracker

Sequencer

DX7

FM Synthesis

Sampling

MIDI

Transposition

iMUSE

Minimalism

Duty cycle

Longitudinal wave

Counterpoint

Fugue

Prelude

# Assignment 1 Overview

- What should my submission look like?

  a. A PDF or Word document that contains answers to the form posted on Canvas.
  b. See example submission here: https://chadmckell.com/mus15

- **Origin of inspiration**: choose your own (don't copy from example above)

- **Picture**: choose your own (don't copy from example above)

  a. You may download a public domain image from the internet, draw a picture by hand or using computer graphics, or use a photograph you've taken with your camera

- **Instrumentation style**: chiptune (i.e. sounds made using basic waveforms)

  a. We recommend using BitInvader in LMMS

# Assignment 1 Overview

- **Number of instruments:** at least 3

- **List of tracks/ instruments:** list at least 3 pairs (see example submission)

# Assignment 1 Overview

- **Song length**: at least 4 bars (i.e. measures)

- **Tempo**: choose a tempo that fits your mood

- **Composing method**: chords-first

  a. Order recommended for this assignment: chords -> arpeggios -> bass -> melody

- **What you hear**: Sad? Happy? Adventuresome? Dreamy?

- **Music submission**: Paste link to soundcloud, clyp.it, or personal website

- **Why might pulses work better for melodies and triangle waves for bass?**

  a. Give answer in your PDF or Word document

# Let's give it a try!

# Assignment 1 Overview: Arpeggio Track

1. **Pick a scale that matches your scene**

   a. To keep things simple, you could choose C Major (happy) or A Minor (sad). These scales correspond to the white keys on the piano. This means that you can ignore the black keys on the piano and it should sound pretty good.

2. **Place a chord from the scale in the first bar near C4 or C5**

   a. If you chose the C major scale, you could pick any 3 white keys spaced every other key apart

3. **Break up the notes into separate beats to create an arpeggio**

   a. Try duplicating one of the notes in the chord
   b. Tinker with the order and duration of the notes until you find something you like

4. **Repeat this process for subsequent bars**

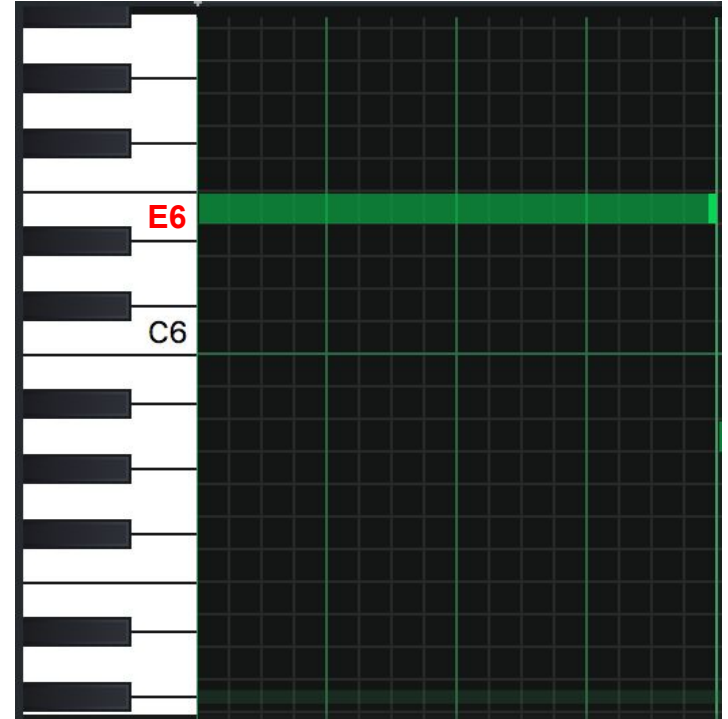# Assignment 1 Overview: Arpeggio Track
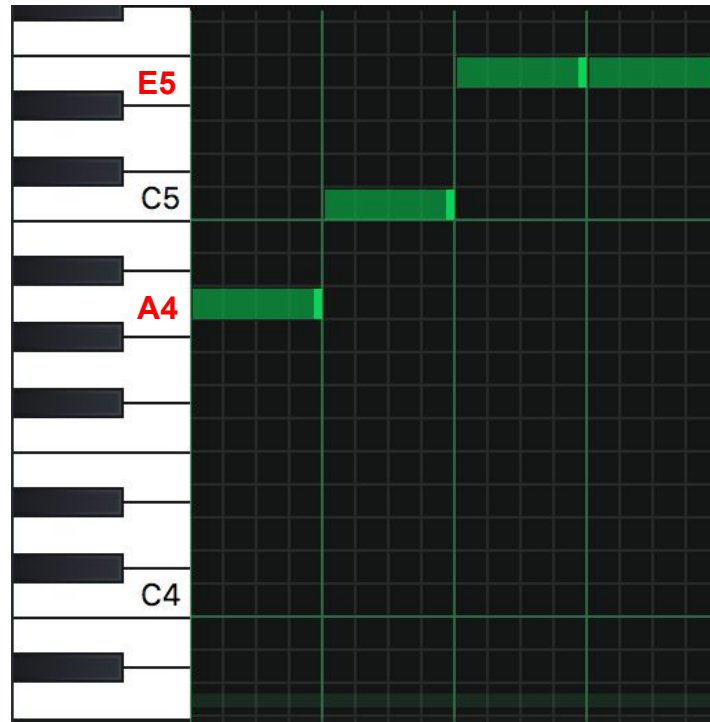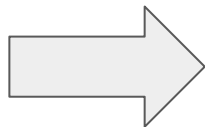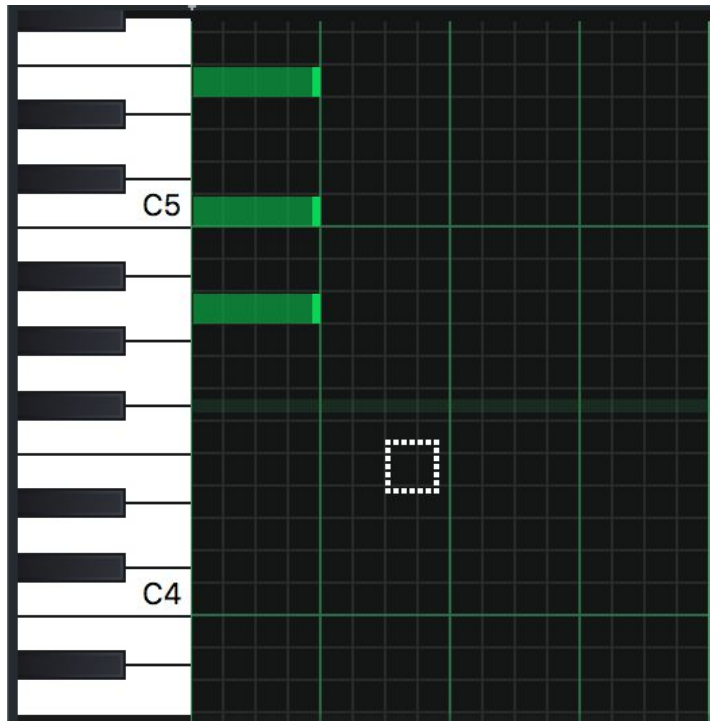
# Assignment 1 Overview: Bass Track

1. **Choose a note from the chord in the arpeggio track**

   a. For example: **A4** (see Arpeggio slide)

2. **Create that same note 1 or 2 octaves below on a different track in Song-Editor**

   a. For example: **A3** (see right image)

3. **Try different note durations**

4. **Repeat for subsequent bars**
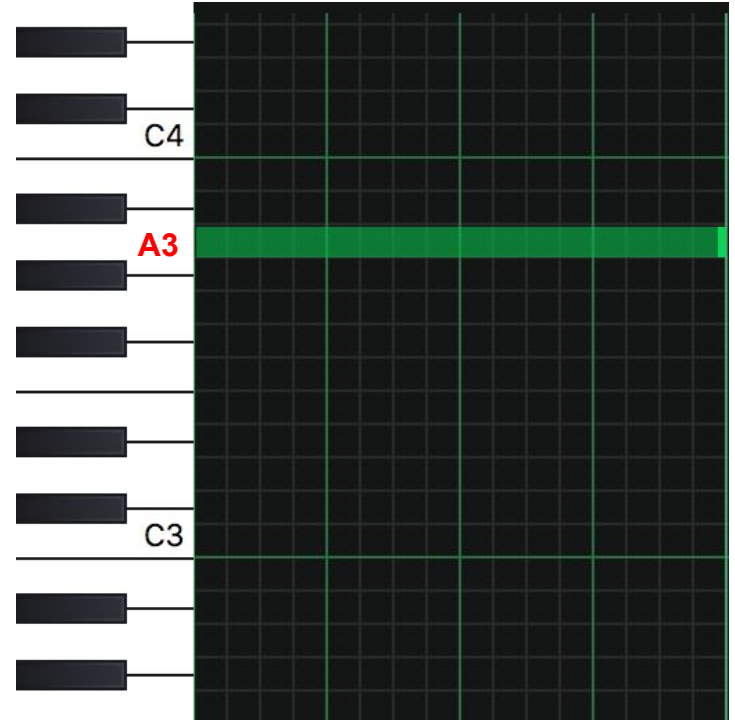
# Assignment 1 Overview: Melody Track

1. **Choose a note from the chord in the arpeggio track**

   a. For example: **E5** (see Arpeggio slide)

2. **Create that same note one octave above on a different track in Song-Editor**

   a. For example: **E6** (see right image)

3. **Try different note durations**

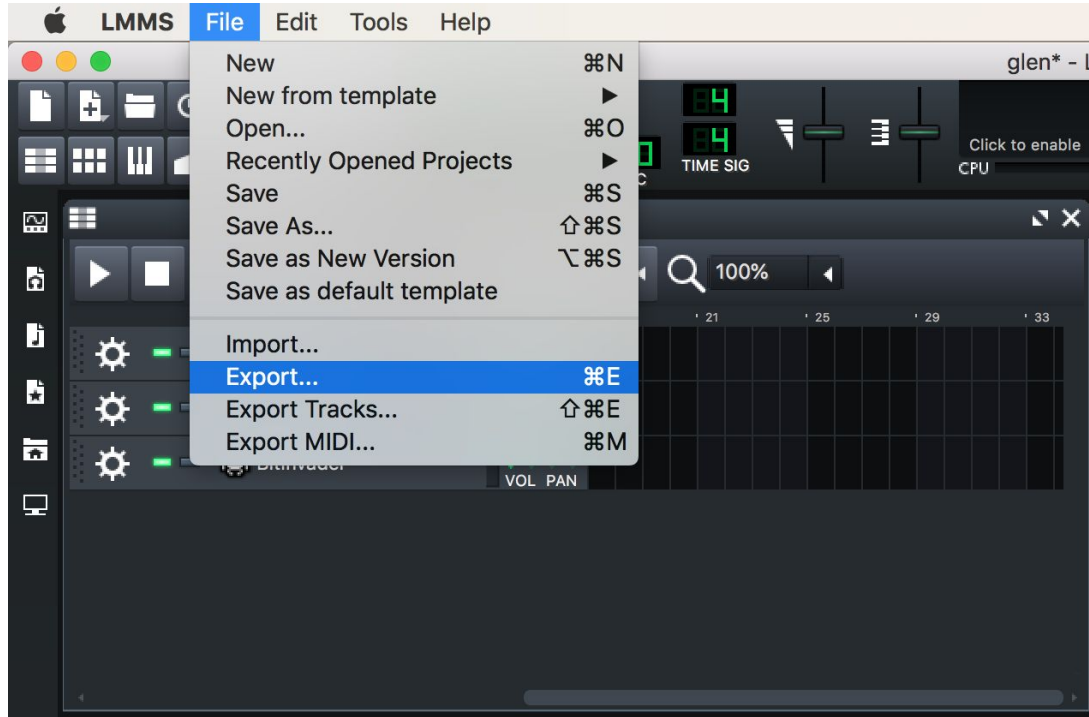4. **Repeat for subsequent bars**

# Assignment 1 Overview: Extras

1. **Click "FX" to add effects (see image)**

   a. You could try adding reverb to the melody or arpeggio track

2. **Try adjusting the duty cycle (i.e. "Length")**

3. **Try rounding out the waveform using the "S" option (see image)**

4. **Adjust volume of tracks to avoid clipping**

# Assignment 1 Overview: Export audio

# One-on-one help

Please help someone in need if you are finished