Record

Play Recording

STOP



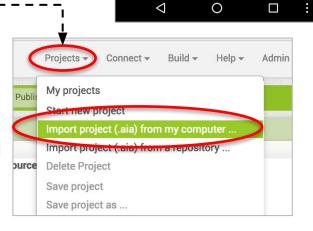
In this unit,
you will create your own
music by composing and
synthesizing musical
sounds generated by
various instruments.

START HERE

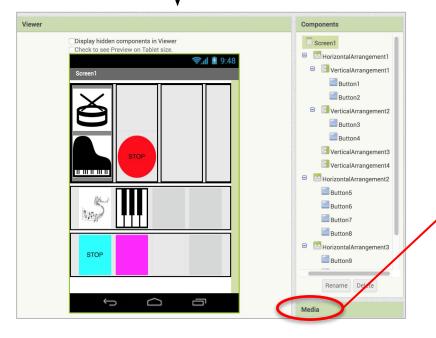
Go to the MIT App Inventor website (http://ai2.appinventor.mit.edu).

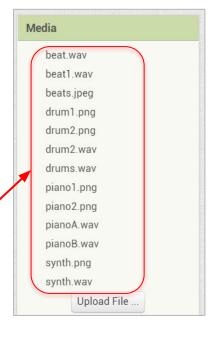
Import the "MusicMaker_template.aia" project provided by your teacher. - - - -

Your Designer will look like this when the template is imported. You have been given some starter layouts to view, modify, or delete. You can see all the image and sound files are under **Media**.



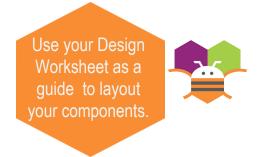
89000







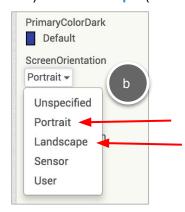
DESIGNING THE APP



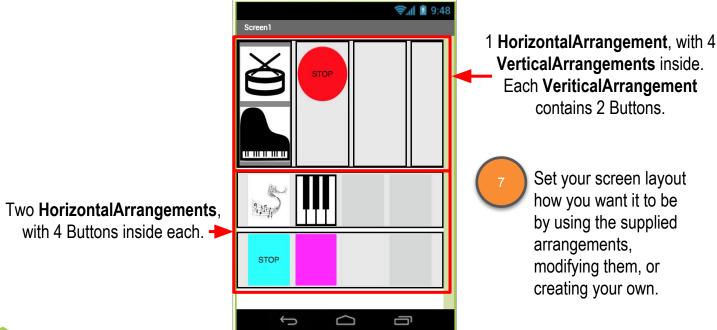
In the template, you have been provided with some options for layouts, using **HorizontalArrangement** and **VerticalArrangement** components. Feel free to use these, or make your own layouts. Delete any **HorizontalArrangements** or **VerticalArrangements** you decide not to use.

The first step is to set your app's orientation. Did you design your app to be used in a vertical position, or sideways? Click on **Screen1** in the Components pane, and then change its **ScreenOrientation** property to either **Portrait** (vertical) or **Landscape** (horizontal).



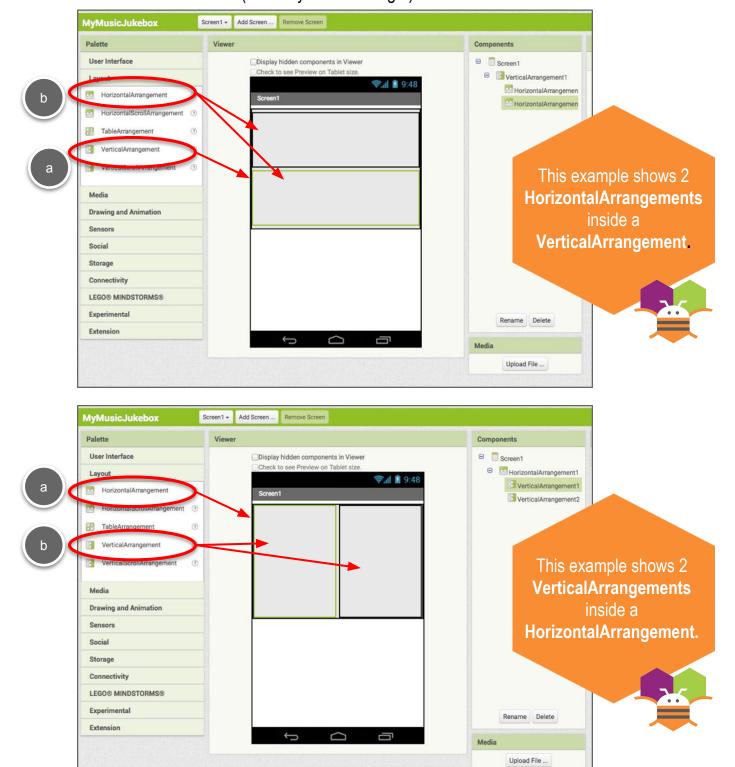


Look at the template layout to see how the **HorizontalArrangement** and **VerticalArrangement** components can change the layout.



DESIGNING THE APP

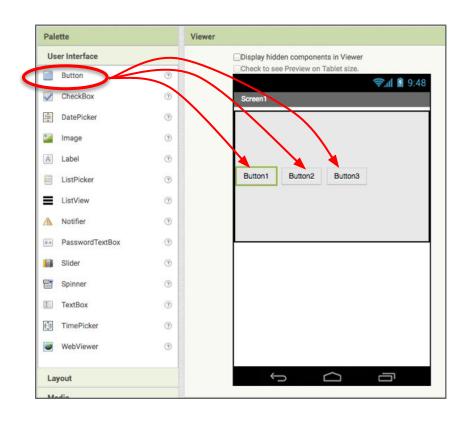
If you want to add your own **VerticalArrangements** or **HorizontalArrangements**, you will find them in the Layout drawer. Drag them out, and it is recommended to set either the *Width* and/or *Height* to **Fill Parent** so it fills the screen (either by width or height).



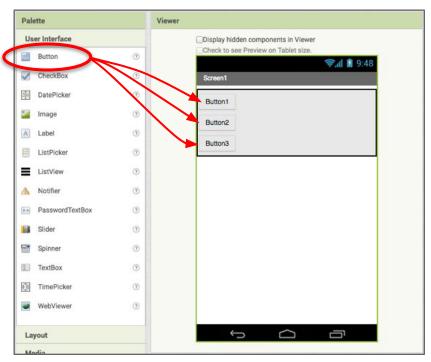


DESIGNING THE APP

Buttons are laid out differently depending on whether you are using a **HorizontalArrangement** or a **VerticalArrangement**.











MAKING IT FIT

Also note the sizing of the Buttons inside the Arrangements. To make sure they fit and are visible. You might have to change their *Width* and *Height* properties.

Button properties
example for those
inside a
VerticalArrangement

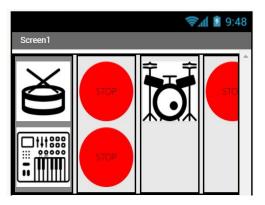
Width
Fill parent...

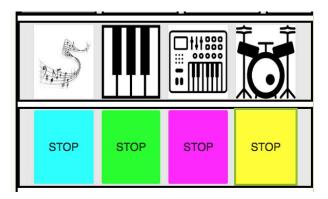
Here 20% means 20% of the "parent", the Arrangement in which it is contained.

Button properties
example for those
inside a
HorizontalArrangement



Add more Buttons so you have at least 4 instruments. Below are two examples of possible layouts.





Make sure to rename your Buttons using descriptive names to make your app more manageable.







CHANGING THE BUTTON PROPERTIES

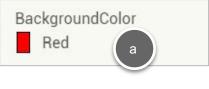
For example, you could start with a drum. Select **Button1** in the template, change its *Image* to "drum1.png" and rename it "Drum1Button".

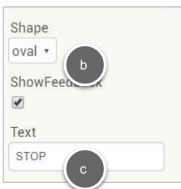






To make a Stop button for the drum, select **Button2** in the template, change its *BackgroundColor* to "Red", *Text* to "STOP", *Shape* to "oval" and rename it to "StopDrum1Button".











The following are the Computational Thinking Concepts covered in Part 2.

Music Maker 1. Naming: Components HorizontalArrangemen VerticalArrangemen Drum1Button Piano1Button SynthesizerButto StopDrum1Butto StopPiano1Buttc StopSynthesizeB VerticalArrangemen Drum2Button Piano2Button BeatButton VerticalArrangemen StopDrum2Butto StopPiano2Butto StopBeatButton

