Record

Play Recording

0

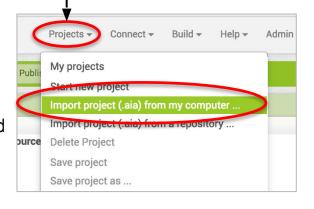
STOP



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

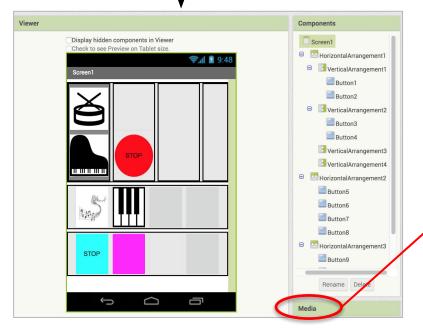
#### **START HERE**

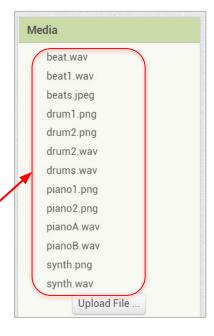
- Go to the MIT App Inventor website (http://ai2.appinventor.mit.edu).
- Import the "MusicMaker\_template.aia" project provided by your teacher. - - -
  - Your Designer will look like this when the template is imported. You have been given some starter layouts to view, modify, or delete. You can see all the image and sound files are under **Media**.



 $\triangleleft$ 

89000







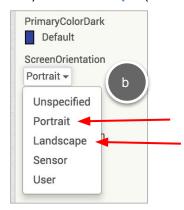
#### **DESIGNING THE APP**



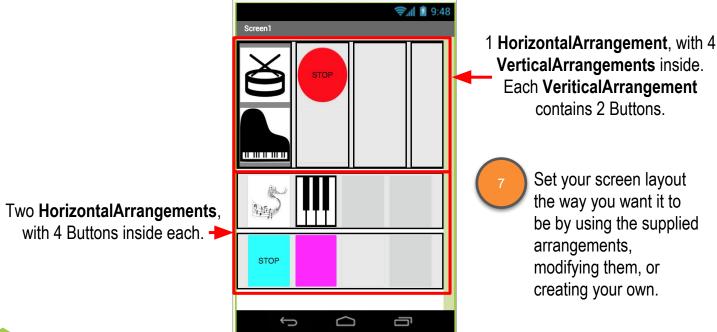
In the template, you are provided with some options for layouts, using **HorizontalArrangement** and **VerticalArrangement** components. Feel free to use these, or make your own layouts. Delete any **HorizontalArrangements** or **VerticalArrangements** you decide not to use.

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



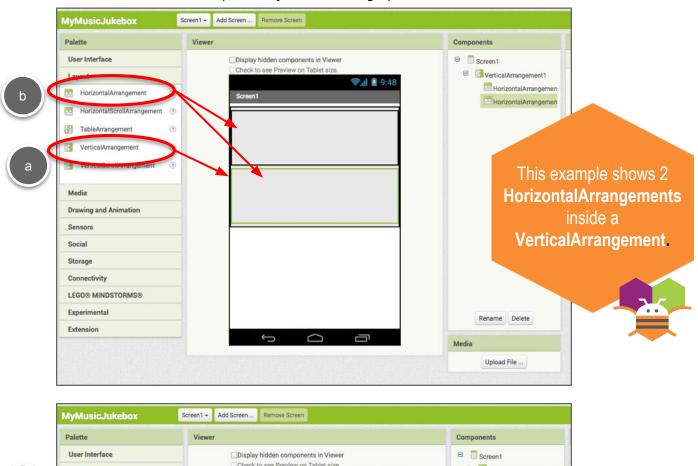


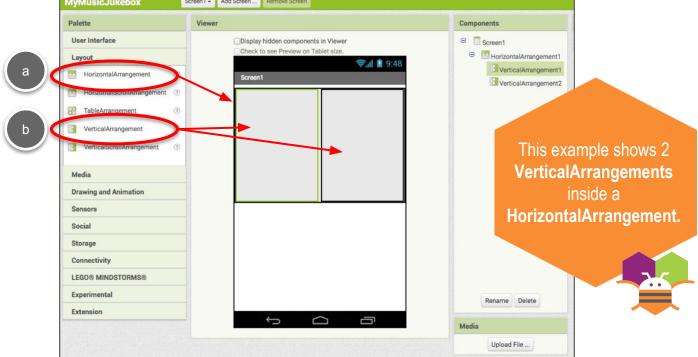
Look at the template layout to see how the **HorizontalArrangement** and **VerticalArrangement** components can change the layout.



# **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).

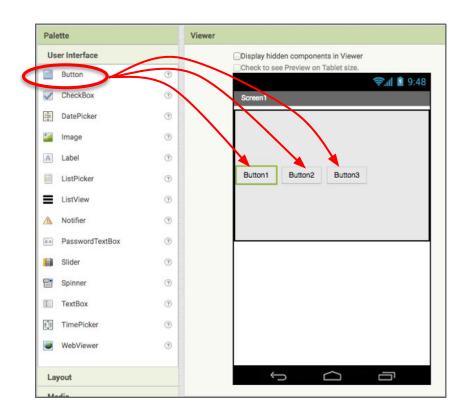




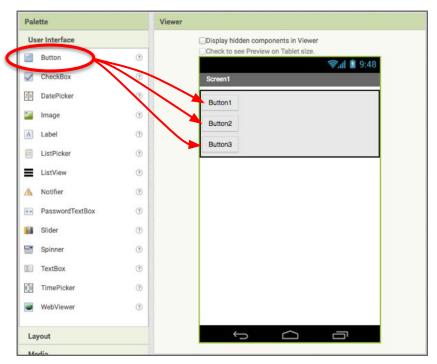


# **DESIGNING THE APP**

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

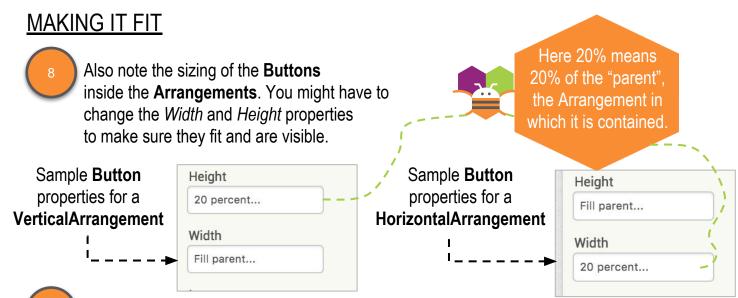




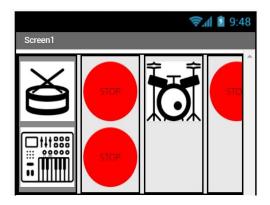


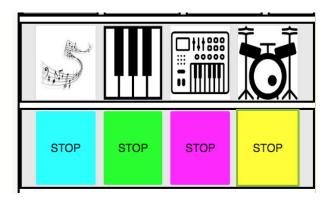






Add more **Buttons** so you have at least 4 instruments.. Below are two examples of possible layouts.





Make sure to rename your **Buttons** using descriptive names to make the coding of your app more manageable.







# **CHANGING THE BUTTON PROPERTIES**

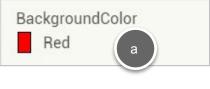
For example, perhaps start with a drum. Select **Button1** in the template, change its *Image* to "drum1.png" and rename it to "Drum1Button".

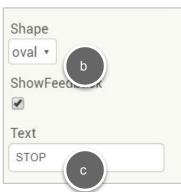






To make a Stop button for the drum, select **Button2** in the template, change its *BackgroundColor* to "Red", *Text* to "STOP", *Shape* to "oval" and rename it "StopDrum1Button".











#### COMPUTATIONAL THINKING CONCEPTS

The following are the Computational Thinking Concepts covered in Part 1.

