MY PIANO: CHALLENGE

Thanks for trying some of the Challenges. Try one, two, or all of the suggestions, or come up with your own!

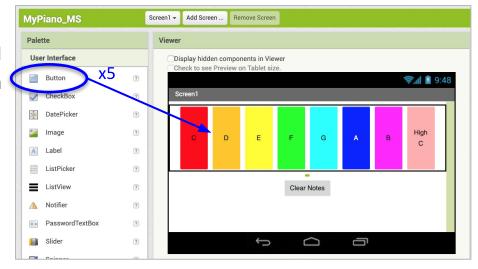
ADD SHARP NOTE BUTTONS

Switch to the Designer.



Add 5 more Buttons for the 5 Sharp Notes (C, D, F, G, and A). Remember to name them CSharpButton,

DSharpButton, etc) so the sound file works properly.



Since you added 5 new Buttons, you have a total of 13. If you want all the *Width's* to add up to 100%, what percentage should each **Button** *Width* be? You can round down to the nearest whole number.

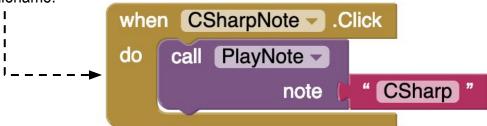


ADD SHARP NOTES (continued)

Switch to the Blocks Editor. - - - - - - - - - - - - - - - - ■



Add Button.Click event blocks for all you new Buttons. Remember to set the note parameter to match the Button name, since that matches the sound filename.



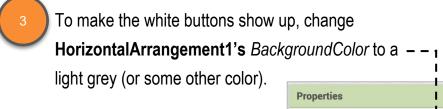


MAKE THE BUTTONS LOOK LIKE A PIANO

Switch to the Designer.

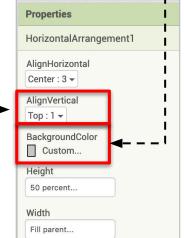


Changing the key color is really easy! Change all the regular buttons to a white *BackgroundColor*, and all the Sharp buttons to a black *BackgroundColor*. You will have to change the *TextColor* for the black buttons to white so they appear on the black background.



And change the *AlignVertical* property to "Top: 1" for

HorizontalArrangement1. - -

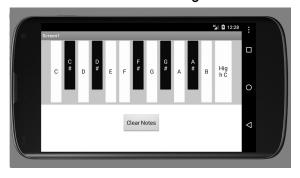




You could make the Sharp Note **Buttons** not quite as tall as the regular notes. 40% is a good option, but you can try different values to see what you like.



Should look something like this!





Palette
User Interface

Layout

Camcorder

TextToSpeech

drag

drag

(?)

?

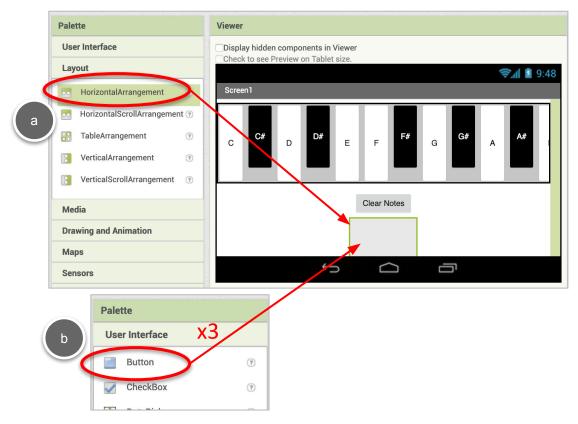
Camera ImagePicker

RECORD YOUR MUSIC

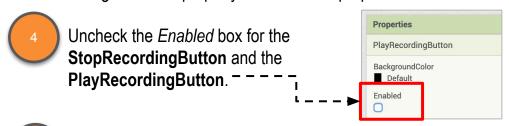
Switch to the Designer.



2 Add a HorizontalArrangement to the Viewer, and drop 3 Buttons into the HorizontalArrangement.



Name them **RecordButton**, **StopRecordingButton**, and **PlayRecordingButton**, in that order and change the *Text* property for each to its purpose.



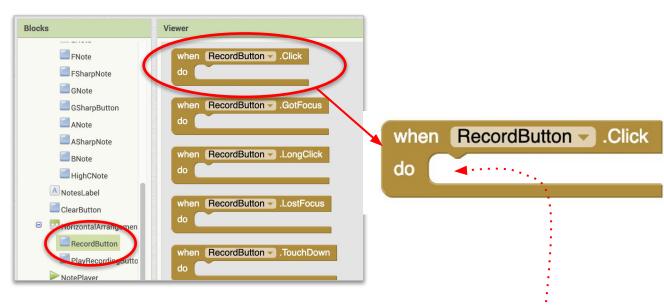
Drag in a **SoundRecorder** component and another **Player** component from the Media drawer. Rename the Player component **RecordingPlayer**.



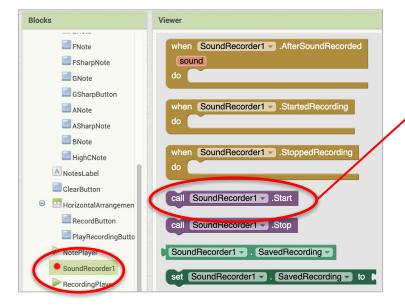
SoundRecorder1 -

RECORD YOUR MUSIC (continued)

- Switch to the Blocks Editor. -----
- 7 Drag out a **RecordButton.Click** event block.



When the user clicks this **Button**, you want to start the **SoundRecorder**.

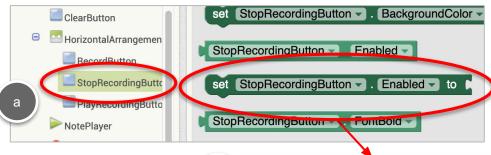




.Start



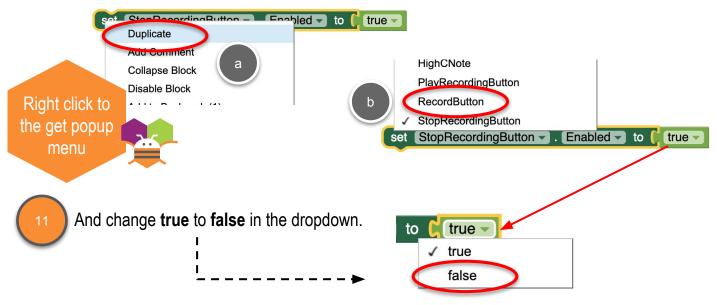
You also want to enable the **StopRecordingButton** so they can stop the recording when they wish.



b set StopRecordingButton ▼ . Enabled ▼ to



Since the app is recording, disable the **RecordButton** by Duplicating the **set StopRecordingButton.Enabled** block and changing **StopRecordingButton** to **RecordButton** in the dropdown.

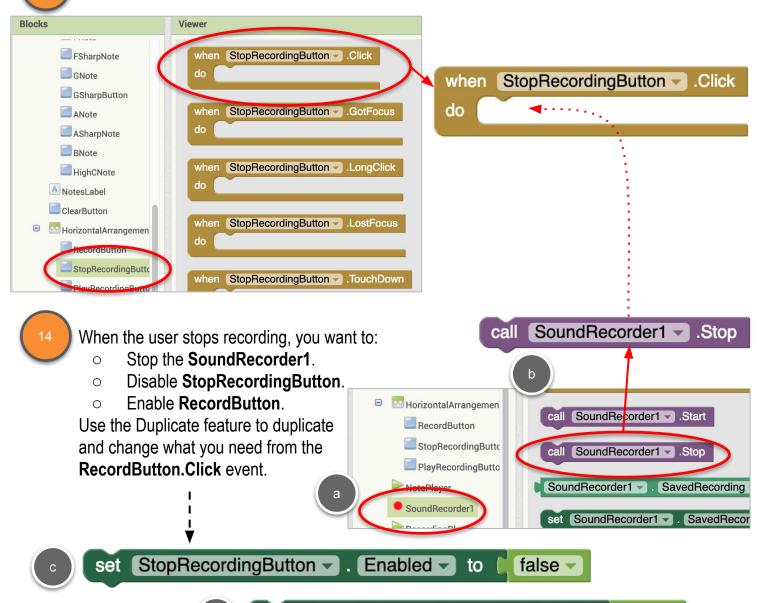




Duplicate the **set RecordButton.Enabled to false** block and change it for **PlayRecordingButton.** You want to make sure the user doesn't try to play back a recording while the app is recording.

set PlayRecordingButton ▼ . Enabled ▼ to false ▼

Drag out a **StopRecordingButton.Click** event block.

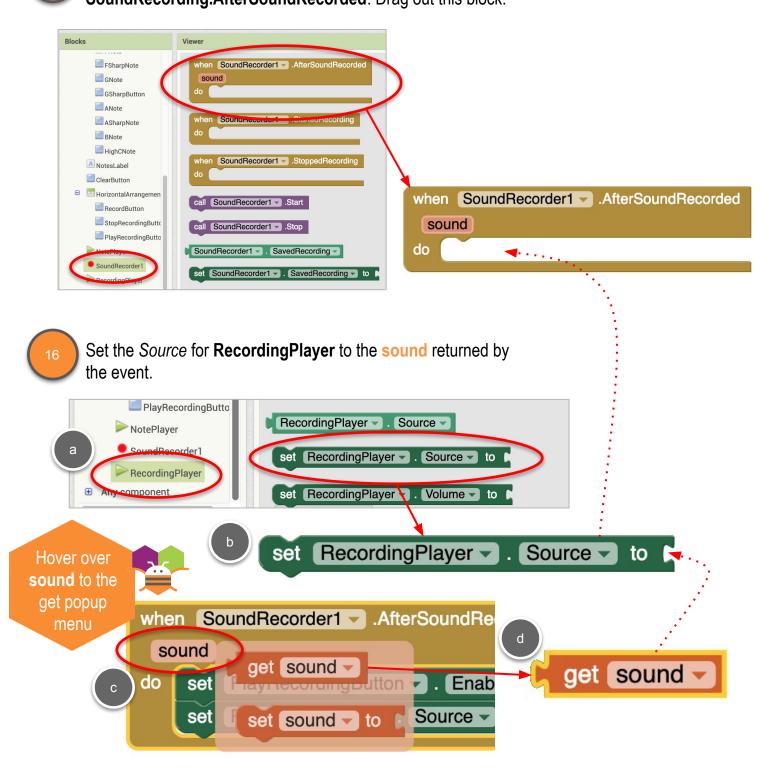




Enabled -

set RecordButton -

When the **SoundRecorder** finishes, it triggers an event, **SoundRecording.AfterSoundRecorded**. Drag out this block.





Now that you've set the Player's Source, enable the PlayRecordingButton so the user can play it back.

```
when SoundRecorder1 .AfterSoundRecorded sound do set RecordingPlayer .Source to get sound set PlayRecordingButton .Enabled to true
```

Add the **PlayRecordingButton.Click** event, and start the Player!

Try it out! Press the Record button, play some music, Stop the recording, and then play it back! How does it sound?

