MY PIANO: CHALLENGE

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

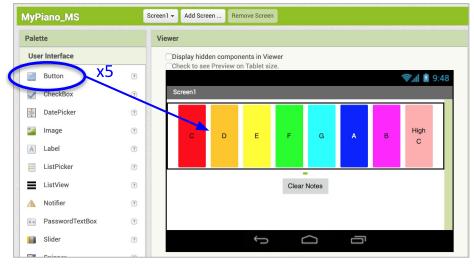
ADD SHARP NOTE BUTTONS

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.

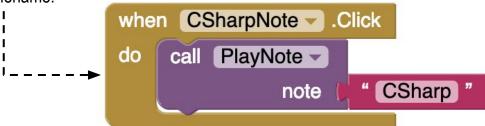


ADD SHARP NOTES (continued)

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.
- To make the white buttons show up, change

 HorizontalArrangement1's BackgroundColor to a -
 light grey (or some other color).
- And change the AlignVertical property to "Top: 1" for HorizontalArrangement1. --

 HorizontalArrangement1. --
 BackgroundColo

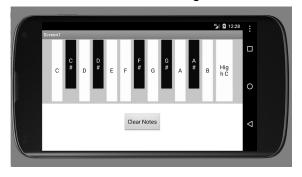




You could make the Sharp Note **Buttons** not quite as tall as the regular notes. 40% is a good option, but you can try different values to see what you like.



Should look something like this!





Palette
User Interface

Layout

Camcorder

TextToSpeech

VideoPlayer

drag

drag

(?)

?

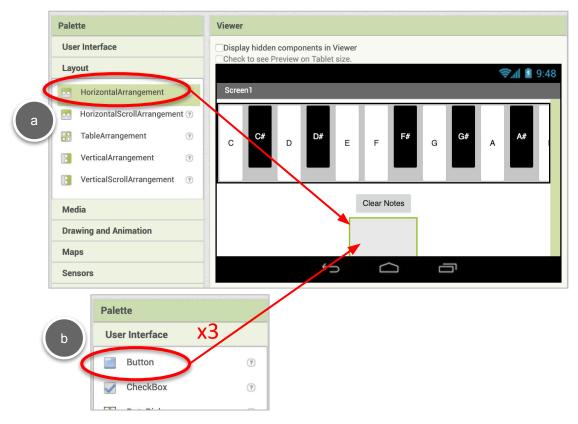
Camera ImagePicker

RECORD YOUR MUSIC

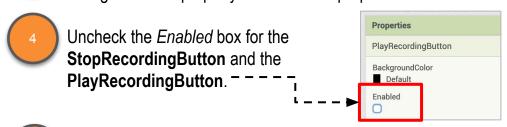
Switch to the Designer.



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**.



RECORD YOUR MUSIC (continued)



do

6 Switch to the Blocks Editor. -----

You will need to write code blocks for the 3 new Buttons:

- RecordButton
 - Start the SoundRecorder
 - Enable the StopButton
 - Disable RecordButton and PlayRecordingButton
- StopRecordingButton
 - Stop the SoundRecorder
 - Enable the RecordButton
 - Disable the StopRecordingButton
- PlayRecordingButton
 - Start the RecordingPlayer
- When the **SoundRecorder** finishes recording (after it stops), it triggers the

AfterSoundRecorded event. You will need to code this event too, setting the

RecordingPlayer.Source to the returned sound.

You should also enable the **PlayRecordingButton** in this event.

All the blocks needed are shown.

set StopRecordingButton . Enabled

```
ordingButton

when StopRecordingButton .Click
```

when RecordButton

.Click

```
when PlayRecordingButton .Click
```

```
when SoundRecorder1 .AfterSoundRecorded sound do
```

```
call RecordingPlayer ▼ .Start
```

get sound

call SoundRecorder1 ▼ .Stop





set RecordButton ▼ . Enabled ▼ to

