TWO-BUTTON GAME:

PART 1

START HERE

Open a new project in MIT App Inventor and name the project "TwoButtonGame".

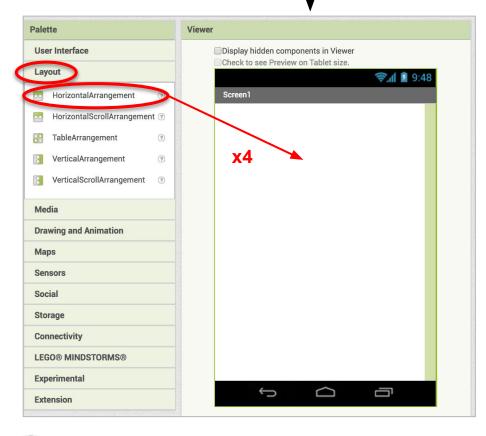
In this lesson, you will remake the two button game from Unit 1. Users click the buttons as fast as they can!

Set AlignHorizontal and AlignVertical for Screen1 to Center. –

Drag in 4 **HorizontalArrangements**. Name them

TimeArrangement, ButtonArrangement, ScoreArrangement,
and StartButtonArrangement. - - - 1







For each **HorizontalArrangement**, change its *AlignHorizontal* property to "Center" and its *Width* property to "Fill Parent". -- >

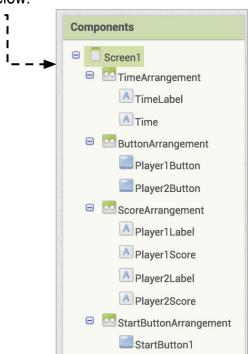


ADDING COMPONENTS

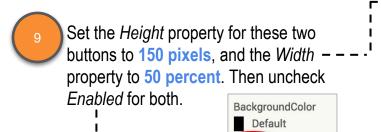
5 Drag in th

Drag in the following components to the corresponding HorizontalArrangement:

- TimerArrangement 2 labels
- ButtonArrangement 2 buttons
- ScoreArrangement 4 labels
- StartButtonArrangement 1 button
- Name each new component as shown below.

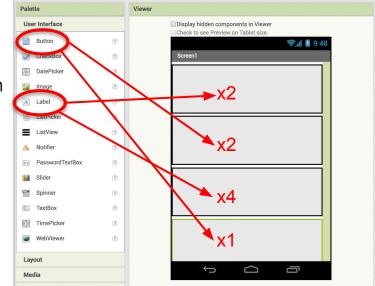


Set the *Text* property of each component so the final User Interface looks like this. -->

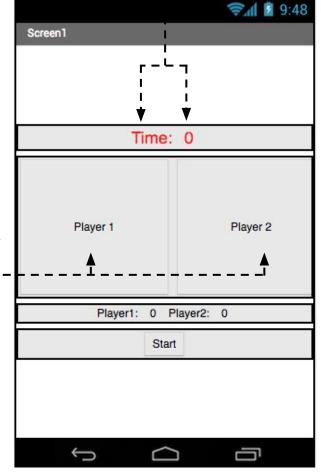


Enabled

FontBold



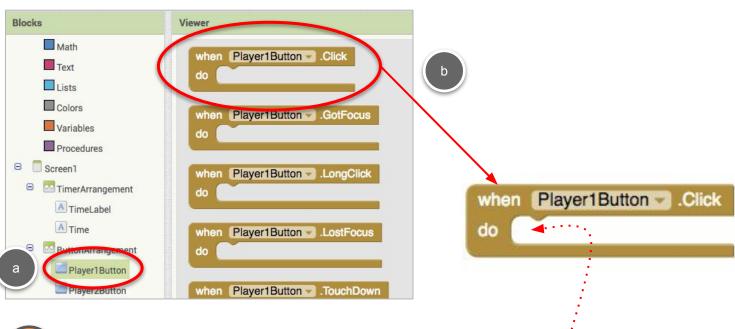
Change the *TextColor* for these labels to Red and the *FontSize* to 20.



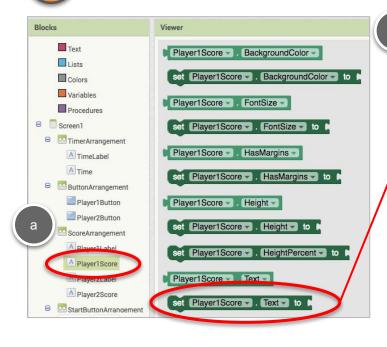


BLOCKS

- Switch to the Blocks editor from the Designer. — Designer Blocks
- Drag out a Player1Button.Click event block.



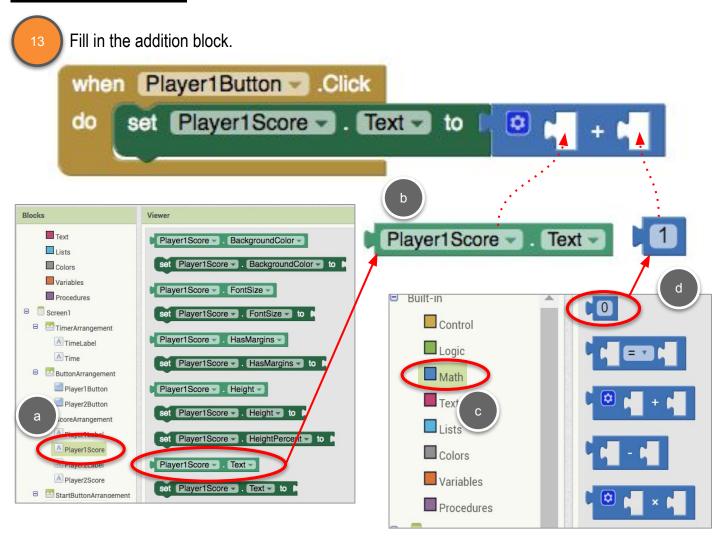
12 Increase Player1's score by 1.







INCREASE SCORE



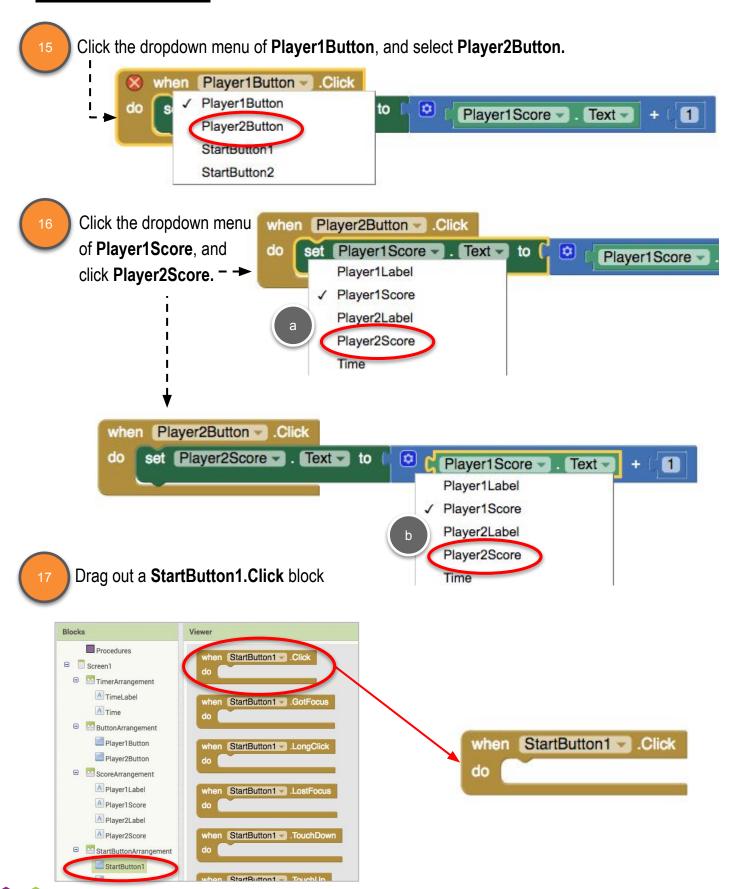
Now, code the **Player2Button** by duplicating the **Player1Button.Click** event and changing it slightly.

Right-click on the when Player1Button.Click event block, and click Duplicate.

When Player1Button Click
Duplicate
Add Comment
Collapse Block
Disable Block
Add to Backpack (6)
Delete 5 Blocks
Help

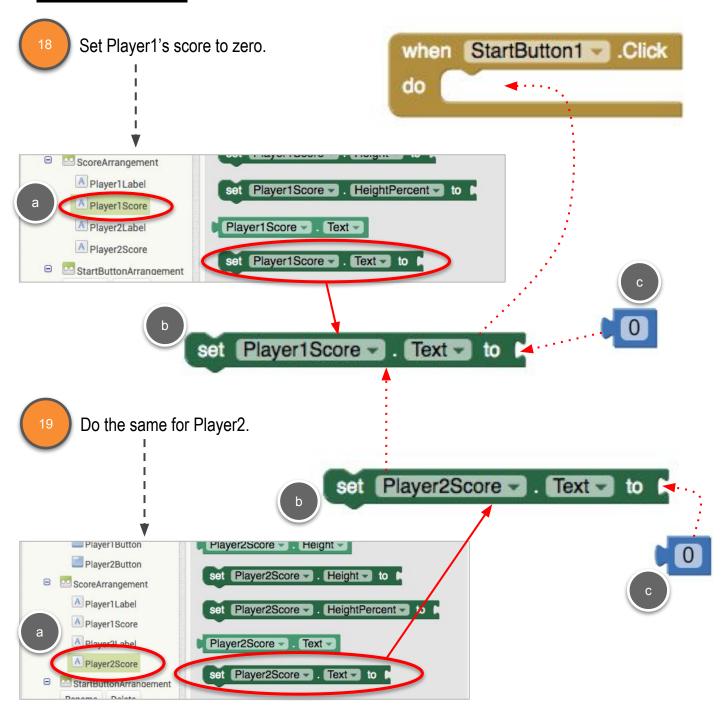


PLAYER2 BUTTON





START BUTTON





START BUTTON (continued) when StartButton .Click Player1Score ▼ . Text ▼ do to set Player2Score -Text to Now enable Player1Button so users can click on it. Player1Button - BackgroundColor -A Time ButtonArrangement set Player1Button - . BackgroundColor -Player1Button Player1Button . Enabled Player2Button □ ScoreArrangement set Player1Button Enabled to A Player1Label Player1Button FontBold -A Player1Score A player21 abol Player1Button -Enabled • true Built-in true Control false Also enable Player2Button. Player2Button ▼ Enabled riayerzbullon . backgroundcolor . □ ButtonArrangement set Player2Button . BackgroundColor . Player1Button Player2Button Player2Button -Enabled ScoreArrangement set Player2Button . Enabled A Player1 Label A Player1Score Player2Button -FontBold -A Player2Label



TESTING!



Now test your app by connecting to the MIT AI2 Companion. Start the game and press both buttons. Do the scores update correctly?





TWO-BUTTON GAME: PART 1

COMPUTATIONAL THINKING CONCEPTS

The following are the Computational Thinking Concepts learned in this lesson.



