# TWO-BUTTON GAME:

PART 1

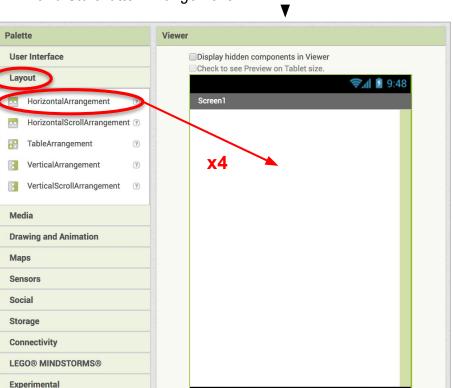
#### **START HERE**

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

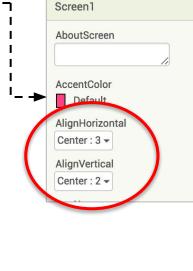
In this lesson, you will remake the two button game from Unit 1. Users click the buttons as fast as they can!

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". -- >





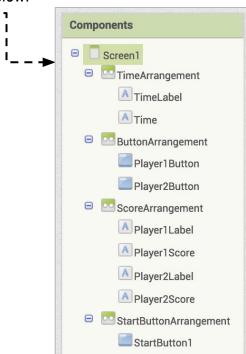
Extension

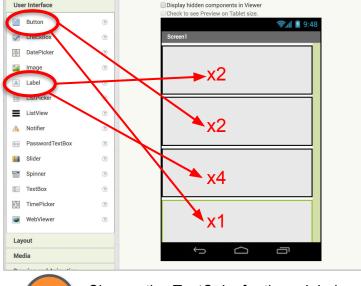
#### **ADDING COMPONENTS**

Drag in the fo

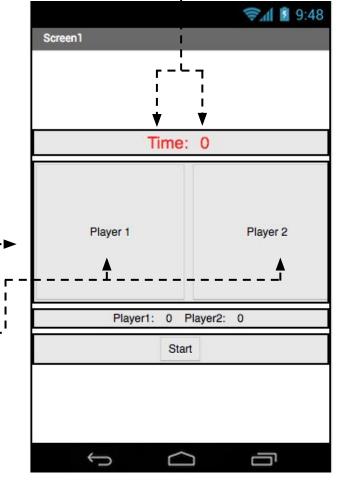
Drag in the following components to the corresponding HorizontalArrangement:

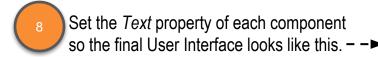
- TimerArrangement 2 labels
- o ButtonArrangement 2 buttons
- ScoreArrangement 4 labels
- StartButtonArrangement 1 button
- Name each new component as shown below.



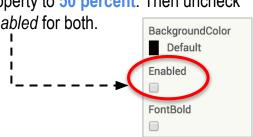


Change the TextColor for these labels to Red and the FontSize to 20.





Set the *Height* property for these two buttons to 150 pixels, and the *Width* - - - property to 50 percent. Then uncheck *Enabled* for both.



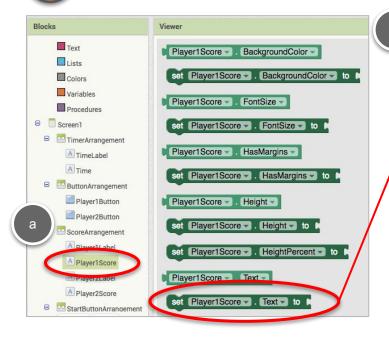


#### **BLOCKS**

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



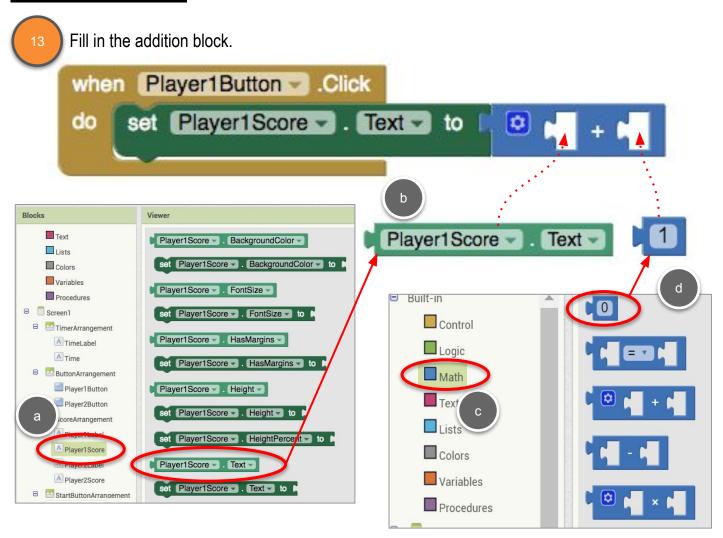
12 Increase Player1's score by 1.







#### **INCREASE SCORE**



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

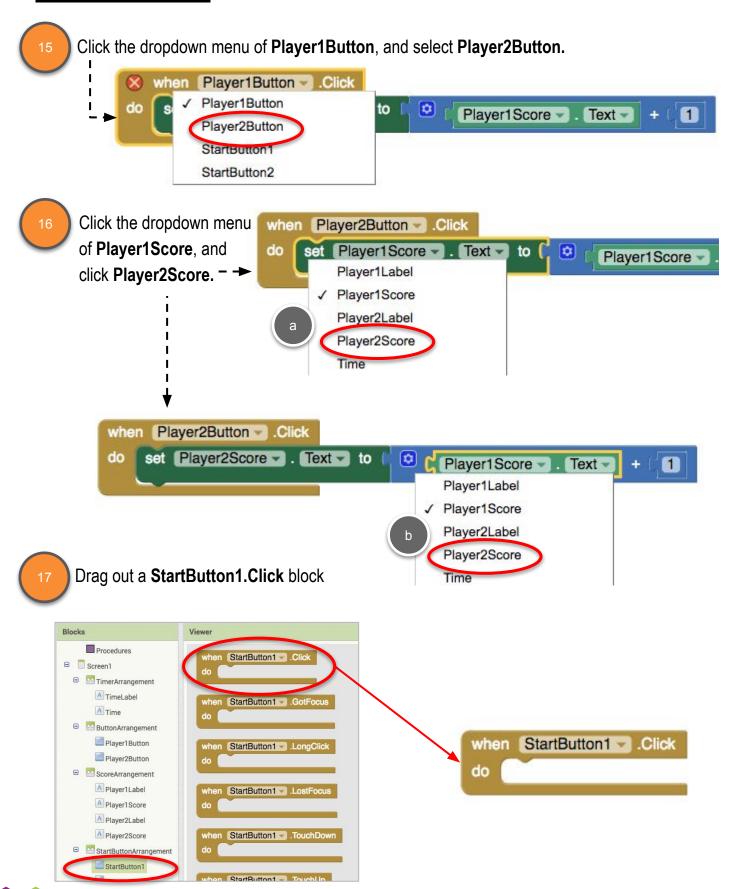
Right-click on the when Player1Button.Click event block, and click Duplicate.

When Player1Button Click
Duplicate

Add Comment
Collapse Block
Disable Block
Add to Backpack (6)
Delete 5 Blocks
Help

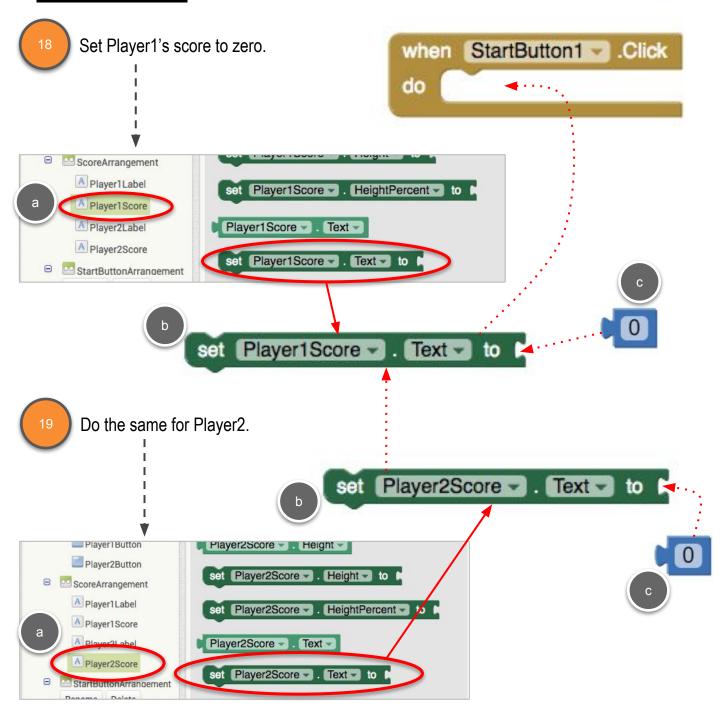


#### **PLAYER2 BUTTON**





#### **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. Enabled -Player2Button ▼ riayerzbullon . backgroundcolor . □ ButtonArrangement set Player2Button BackgroundColor -Player1Button Player2Button Player2Button -Enabled ScoreArrangement set Player2Button . Enabled A Player1Label 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.

