FOOD CHASE GAME: PART 1

START HERE

Login to the MIT App Inventor website (http://ai2.appinventor.mit.edu).

Open the FoodChase_template project provided by your teacher.

In the Designer window, drag in a
Canvas component from the Drawing
and Animation drawer. -----

Click on **Canvas1**, and change both its *Width* and *Height* to

"Fill Parent".

Properties

Canvas1

BackgroundColor

Default

BackgroundImage

None...

FontSize

14.0

Height

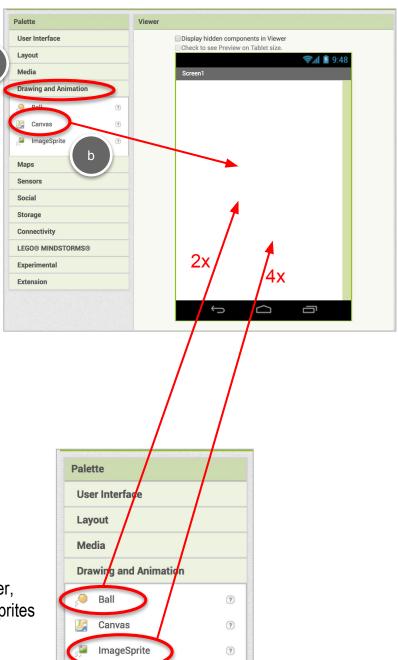
Fill parent...

Width

Fill parent...

From the Drawing and Animation drawer, drag in TWO Balls, and FOUR ImageSprites and drop them on the Canvas.





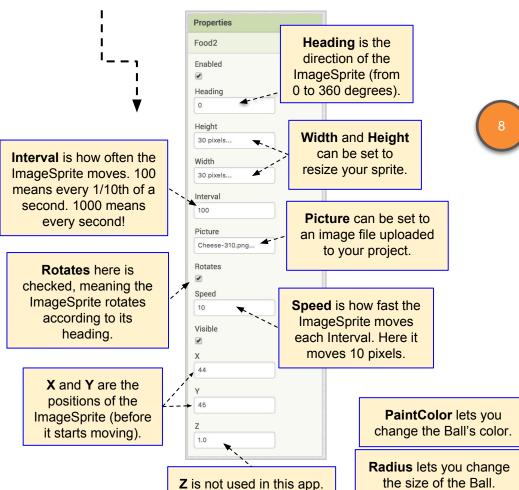


Maps

GAME SPRITES

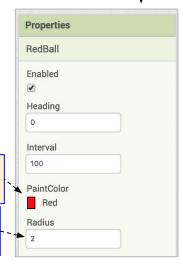
For this game, you will have six sprites - 2 **Ball** sprites, and 4 **ImageSprites**. They all work the same way. Ball sprites are automatically round. **ImageSprites** let you change shape and appearance by attaching images.

- Rename your **Ball** and **ImageSprites** as shown here in the Components panel. Click on each component ----- and click the Rename button to rename it.
- Look below at the Properties panel for an **ImageSprite** to become familiar with each property.





Note that the Properties for **Ball** components are very similar to **ImageSprites**, except for a few related to color and size.





PaintColor

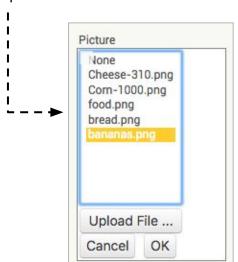
SETTING PROPERTIES

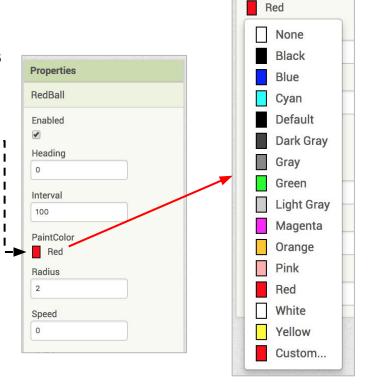
Click on **RedBall**, and change its properties as shown to the right. To change the *PaintColor*, click on the current color and choose **Red** from the dropdown list.

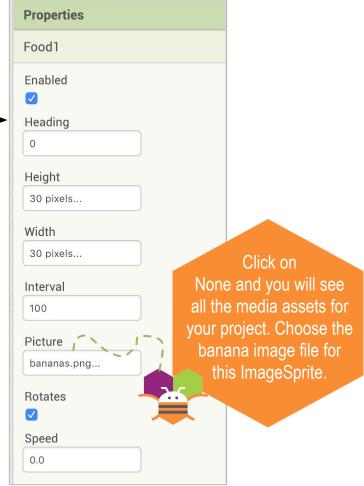
For **GreenBall**, change its properties to be the same as **RedBall**, except of course for its *PaintColor*. Choose **Green** for its *PaintColor*.

Click on **Food1** in the Components panel, and change its properties as shown to the right. The other properties can remain the default values.

Update the properties for Food2, Food3, and Food4 to be the same as Food1. - - - → Except for *Picture*: choose a different *Picture* for each Food from the dropdown list.









SCREEN1

Set the properties for **Screen1** so the animations appear and work well. Click on **Screen1** in the Components panel, and set its:

- ScreenOrientation to Portrait - -

- Uncheck the Scrollable property. -

- Sizing to Responsive - - - -

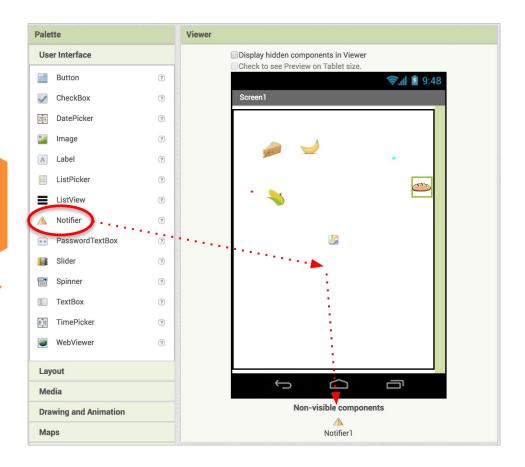
The last component to add is a **Notifier** component. Drag it in from the User Interface drawer.

Scrollable
property allow the user to
scroll on the screen if
checked. No scrolling
allowed if unchecked.

*

Responsive
Sizing changes the size of components based on the resolution of the device.

Notifier is a non-visible component. It's part of your app, but not seen by the user.



ScreenOrientation

ShowListsAsJson

ShowStatusBar

Responsive -

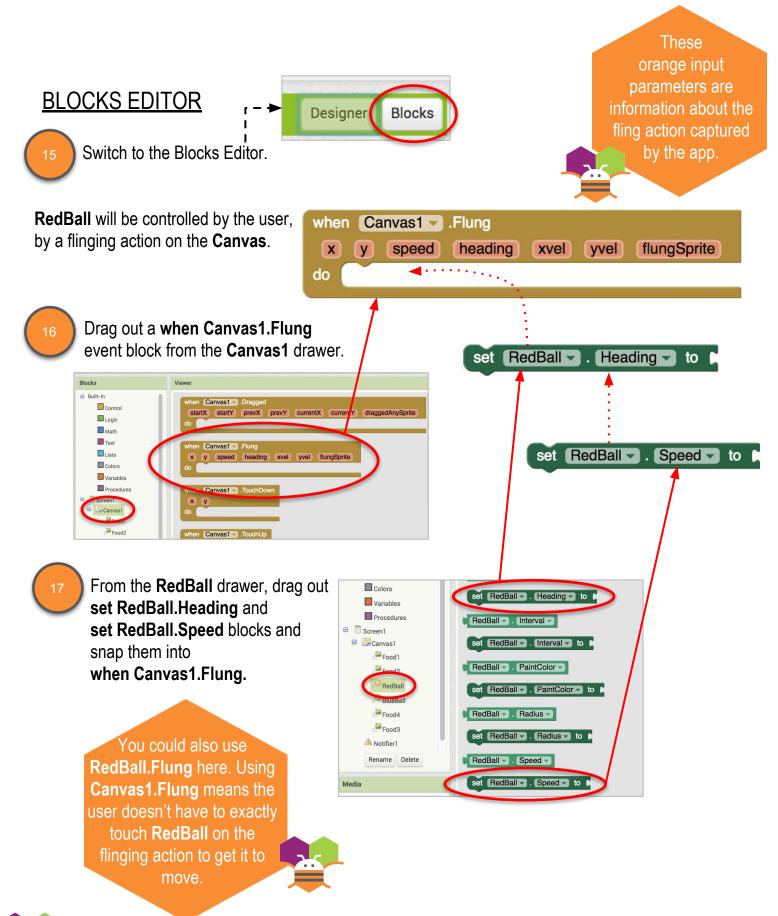
 \checkmark

Sizing

Portrait +

Scrollable





get heading

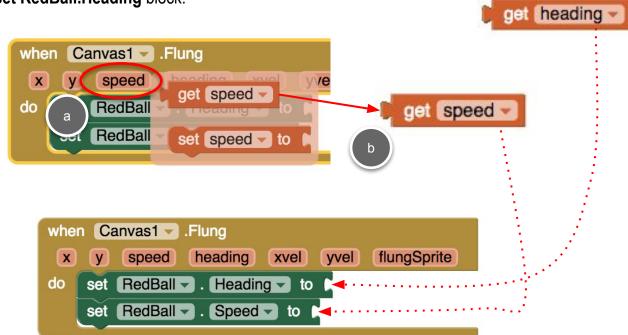
set heading to

SET REDBALL PROPERTIES

You want to set the direction (heading) and speed according to the fling action of the user.

Hover over heading, and snap get heading to the set RedBall.Heading block.

Hover over speed, and snap get heading to the set RedBall.Heading block.



when Canvas1

do

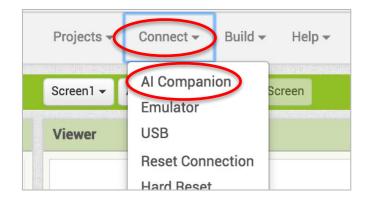
speed

set RedBall . Headi

heading

Try that out with MIT AI Companion!
Start MIT AI companion on your device.
Try flinging the red ball. It should respond to your fling actions.

Next, you'll add interactions with the other sprites.





COMPUTATIONAL THINKING CONCEPTS

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

