FOOD CHASE GAME: PART 1

In this unit, you will create an animated game where you chase food and grow bigger!

DESIGNER



Login to the MIT App Inventor website (http://ai2.appinventor.mit.edu) and open the FoodChase_template project provided by your teacher.



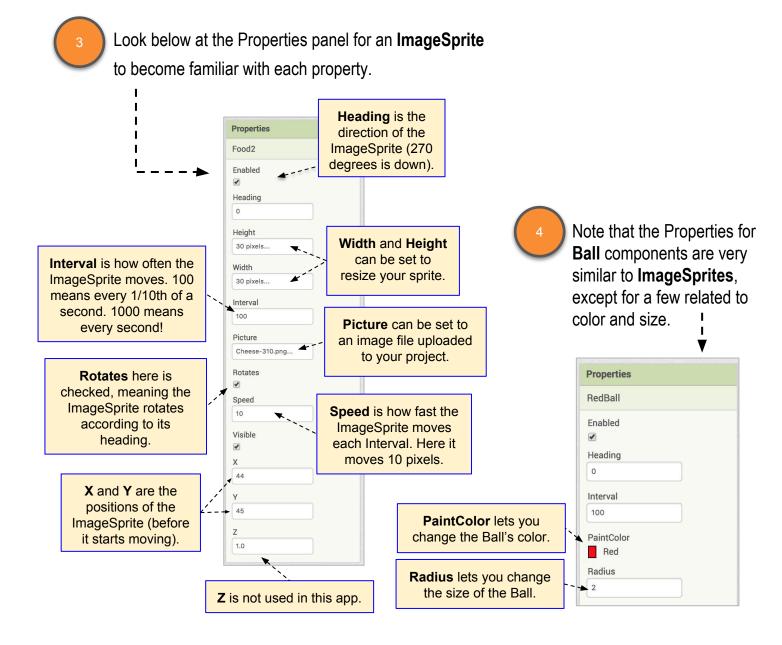
Add the following components, and update their properties as shown in the table below.

Drawer	Component	Name	Property	Setting
Drawing and Animation	Canvas	Canvas1	Width Height	"Fill Parent" "Fill Parent"
Drawing and Animation	Ball	RedBall	Radius PaintColor	2 Red
Drawing and Animation	Ball	GreenBall	Radius PaintColor	2 Green
Drawing and Animation	ImageSprite (4)		Width (all) Height (all)	30 pixels 30 pixels
		Food1	Picture	"bananas.png"
		Food2	Picture	"bread.png"
		Food3	Picture	"Cheese-310.png"
		Food4	Picture	"Corn-1000.png"
User Interface	Notifier	Notifier1		



GAME SPRITES

For this game, you 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.





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 - - -

ScreenOrientation ShowListsAsJson

Portrait +

Scrollable

ShowStatusBar

Responsive -

Sizing

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.

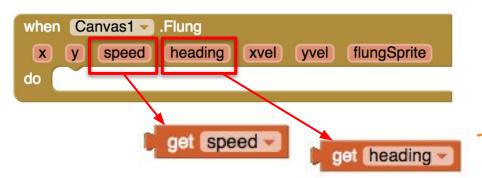
MOVING REDBALL

The **RedBall** will be controlled by the user, by a flinging action on the **Canvas**.

Switch to the Blocks Editor.



Using the following blocks, set the **RedBall's** Heading and Speed according to the heading and speed of the flinging event.

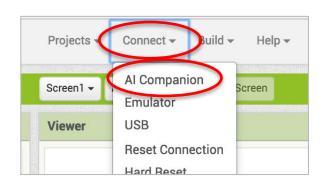


All the orange input parameters are information about the fling action captured by the app.





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





COMPUTATIONAL THINKING CONCEPTS

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

