# 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 (<a href="http://ai2.appinventor.mit.edu">http://ai2.appinventor.mit.edu</a>) and open the FoodChase\_template project provided by your teacher.



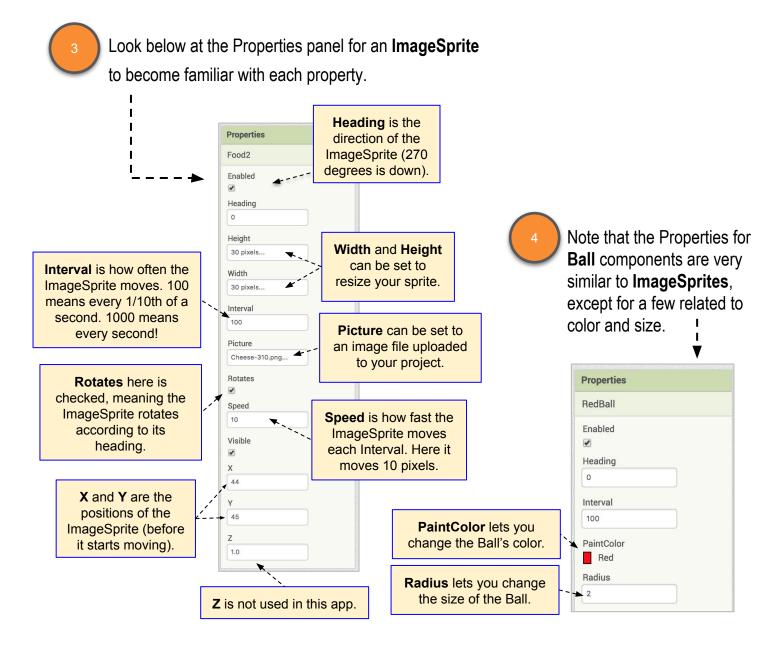
Add the following components, and update their properties as shown in the table below.

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**

ScreenOrientation
Portrait 
Scrollable
ShowListsAsJson
ShowStatusBar
Sizing
Responsive

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**

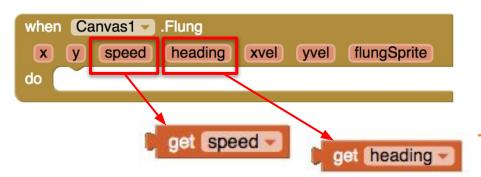
The **RedBall** will be controlled by the user, by a flinging action on the **Canvas**.

6 Switch to the Blocks Editor.

- Sizing to Responsive - - -



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

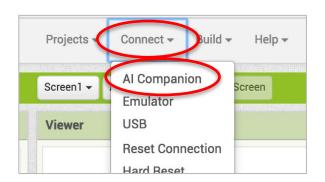


All the orange input parameters are information about the fling action captured by the app.





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.

