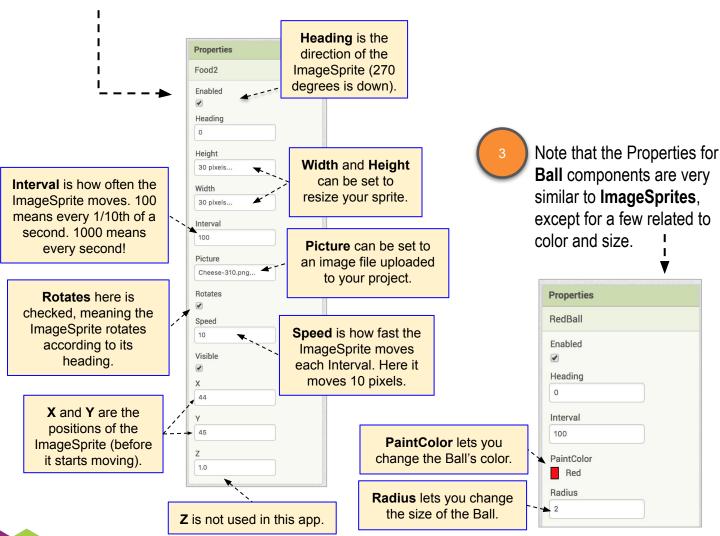


For this game, you will add six sprites - 2 **Ball** sprites, and 4 **ImageSprites**. They all work the same way. **Ball** sprites are automatically round. **ImageSprites** let you change shape and appearance by attaching images. Look below at the Properties panel for an **ImageSprite** to become familiar with each property.

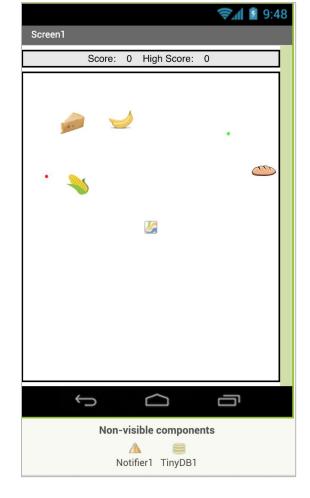


## **SCREEN1**

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.

The app screen should look something like this:



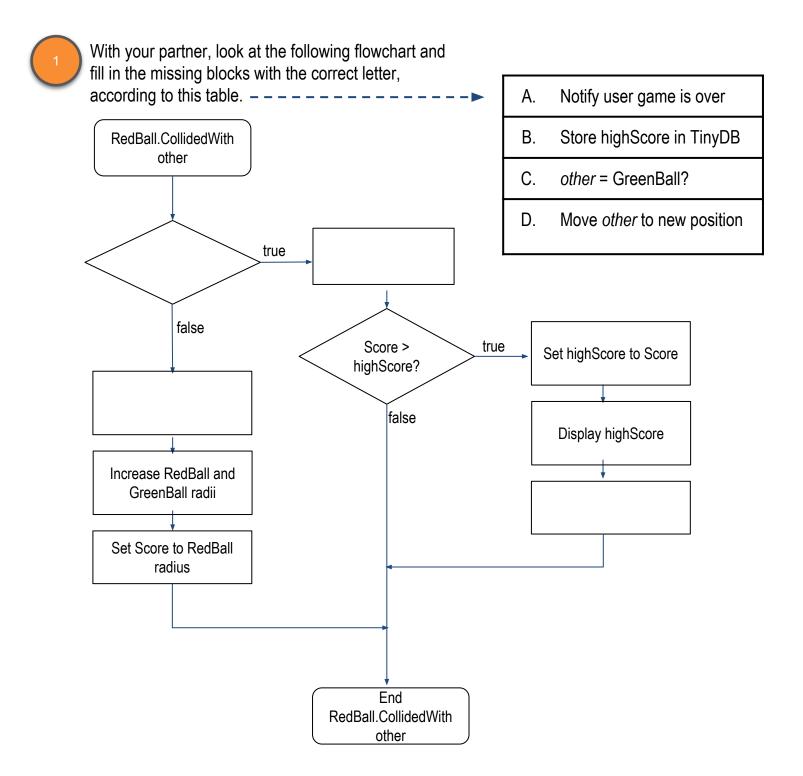


# THE APP CHALLENGE

Using the template provided, make a game app with the following behavior:

RedBall and GreenBall start in random positions, with a radius of 2.			
Food ImageSprites appear in random positions on the screen.			
When user flings their finger on the Canvas, the RedBall's Speed and Heading will			
reflect the speed and heading of the fling action.			
RedBall grows larger every time it "eats" a Food ImageSprite. GreenBall also			
when RedBall "eats' Food, but at a slower rate.			
When	When a Food ImageSprite is eaten it appears in a different random position.		
GreenBall moves in a random path around the screen, bouncing off edges.			
When RedBall and GreenBall collide, game is over.			
	Notify	user and allow them to play again or quit.	
	☐ If user decides to play again		
		Reset all Balls and ImageSprites to size and random positions.	
		Use a procedure called Restart to perform the resetting.	
Displayed Score is the current radius of RedBall.			
When	When a game ends, if Score is greater than the current High Score, replace High		
Score with the current Score.			
Store High Score in TinyDB, so that when the app starts, the current High Score is			

### FLOWCHART OF REDBALL.COLLIDEDWITH





**Choose Ways to Extend Your App** 

Here are a few features you could add if you want to expand your app



Add sounds! One for eating food and another for losing game

Make the GreenBall move faster as time goes by

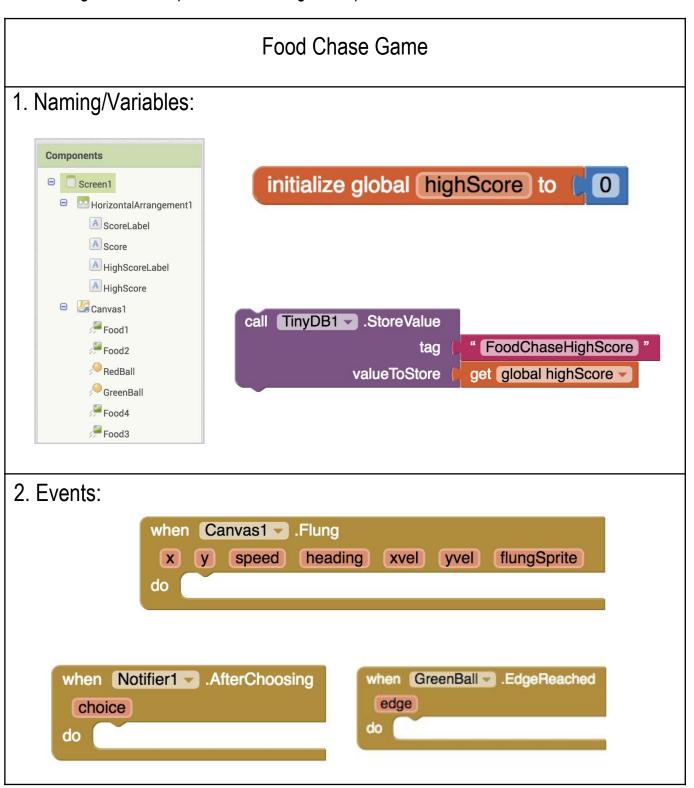
Make the Food Sprites move too

What other ideas do you have?



#### COMPUTATIONAL THINKING CONCEPTS and PRACTICES

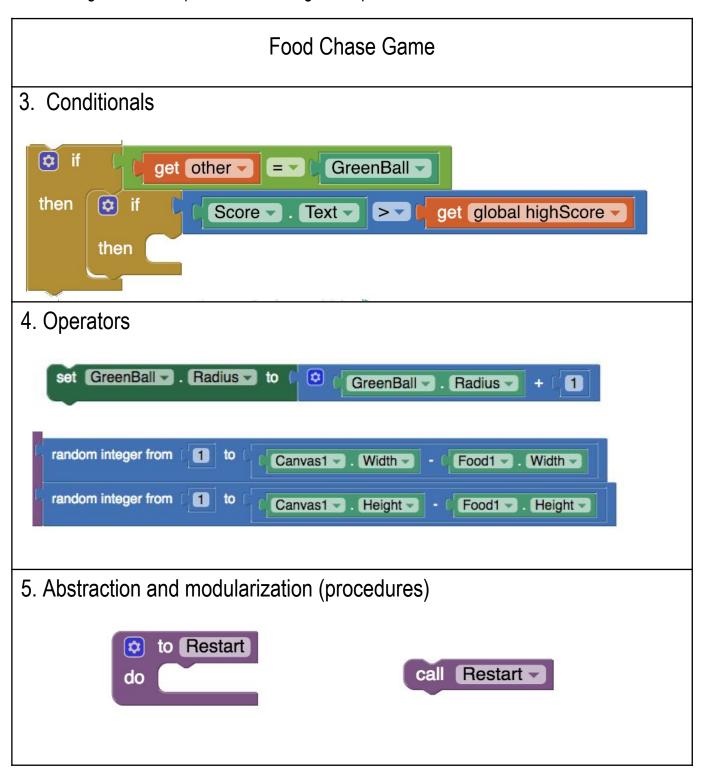
The following are the Computational Thinking Concepts learned in this unit.





#### COMPUTATIONAL THINKING CONCEPTS and PRACTICES

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





#### COMPUTATIONAL THINKING CONCEPTS and PRACTICES

The following are the Computational Thinking Concepts and Practices used in this unit.

