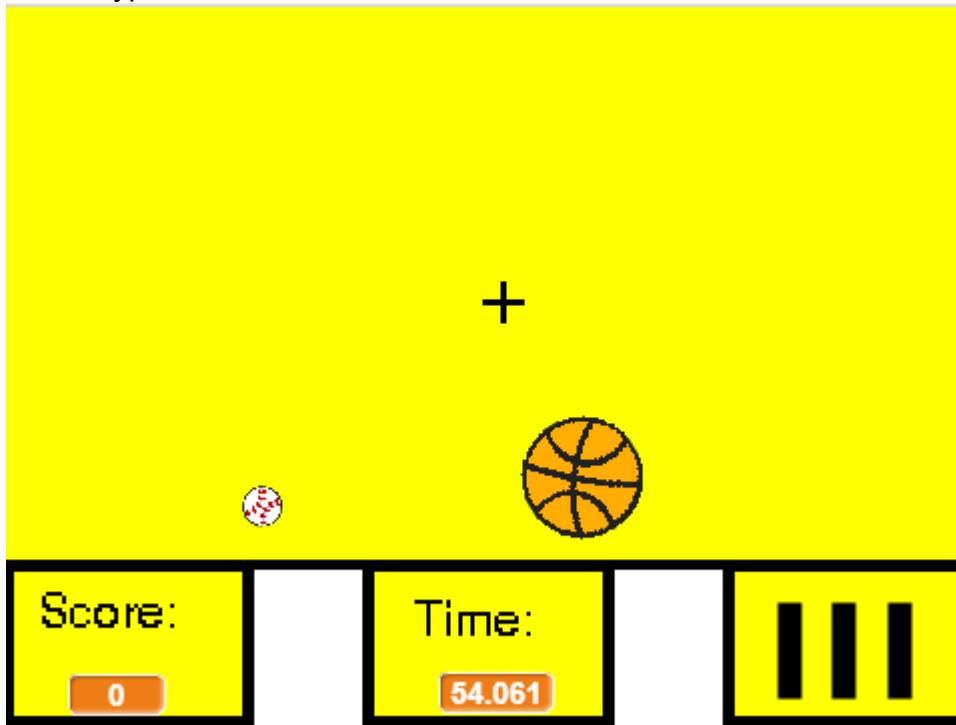


Shoot_The_Balls Scratch Tutorial

By Jake Feeney

Difficulty: Advanced
Game Type: Shooter



Thanks for choosing this tutorial, it is my first tutorial on coding. I would greatly appreciate feedback so that I can make better tutorials in the future.

This game is a shooter where your objective is to shoot as many basketballs and baseballs before time runs out. I originally made this game as a demo game for project Pistation. The idea behind the game was that in most scratch shooters if the cross-hairs were touching the target the shot counted as a hit.

Example:

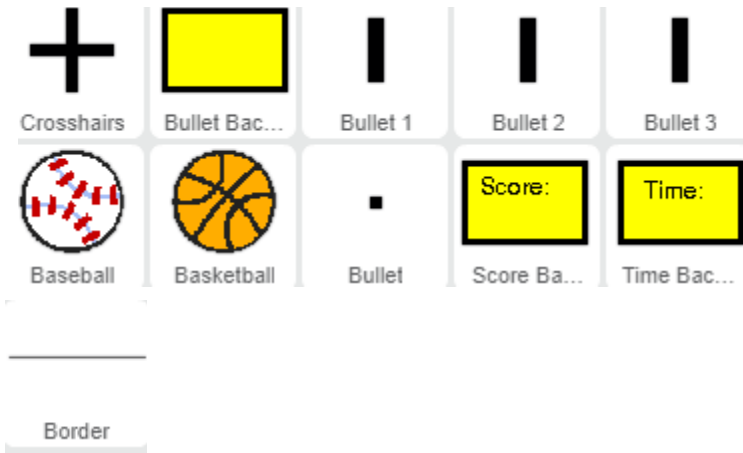


The shot would count because the cross-hairs were touching the target.

So I decided to make a game where the hit only counted if the center.

First you have to go to <https://scratch.mit.edu/projects/173063239/> and remix or download it. It is a template for our program and contains all the sprites and some code that tell the sprites where they are supposed to be on the screen. If you press the green flag it will do nothing.

There is a lot of sprites in this project so let's find out what they do.



The cross-hairs are what we use to aim. The Bullets 1, 2 and 3 are there to show how much ammo we have. The baseball and basketball are the targets. The Bullet is used to detect if you shot anything. The Bullet, Score and Time backgrounds are used as containers for the bullets and the variables. And finally the Border is used to separate the top and bottom part of the screen.

The first thing we will program is the crosshairs. This code makes the crosshairs follow the mouse, makes sure that it doesn't go past the border, hides when time is up and resets the time and score. If you want to change how long the game lasts you change it here.

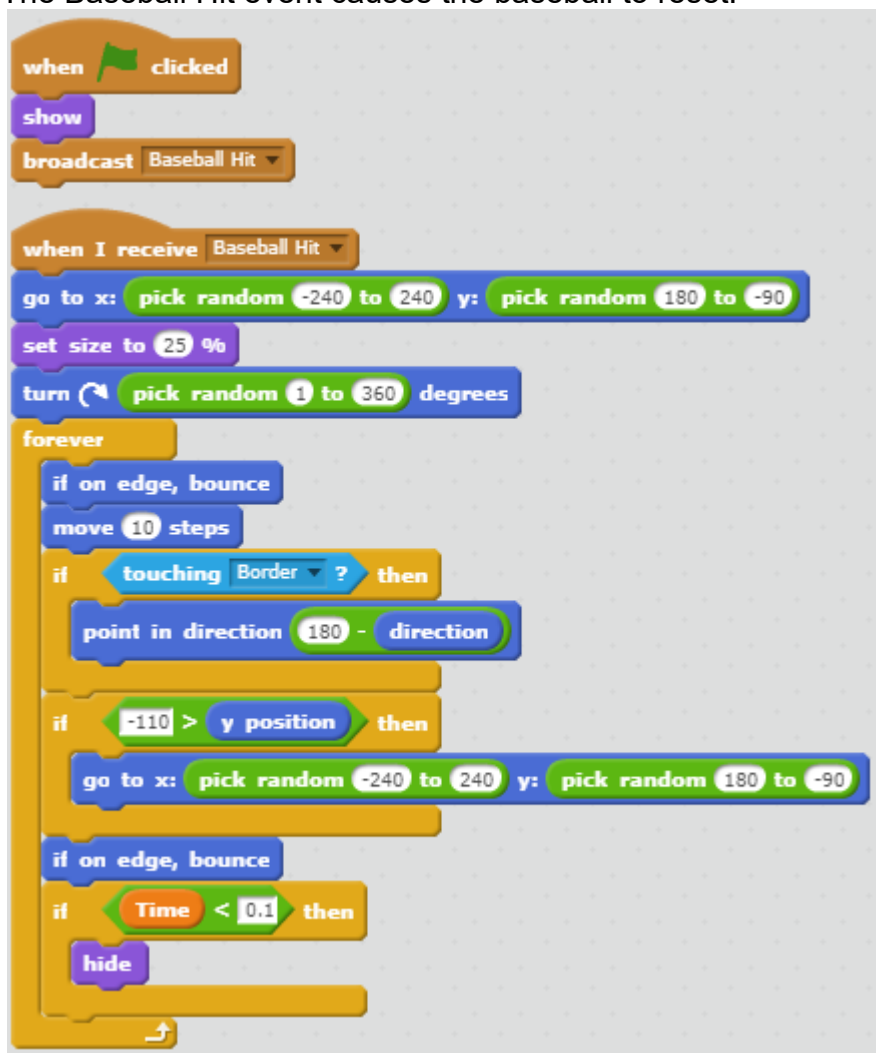


Next we will program the Baseball to move around.

This bit of code tells the basketball to reset, bounce around, hide when times up and not go past the border.

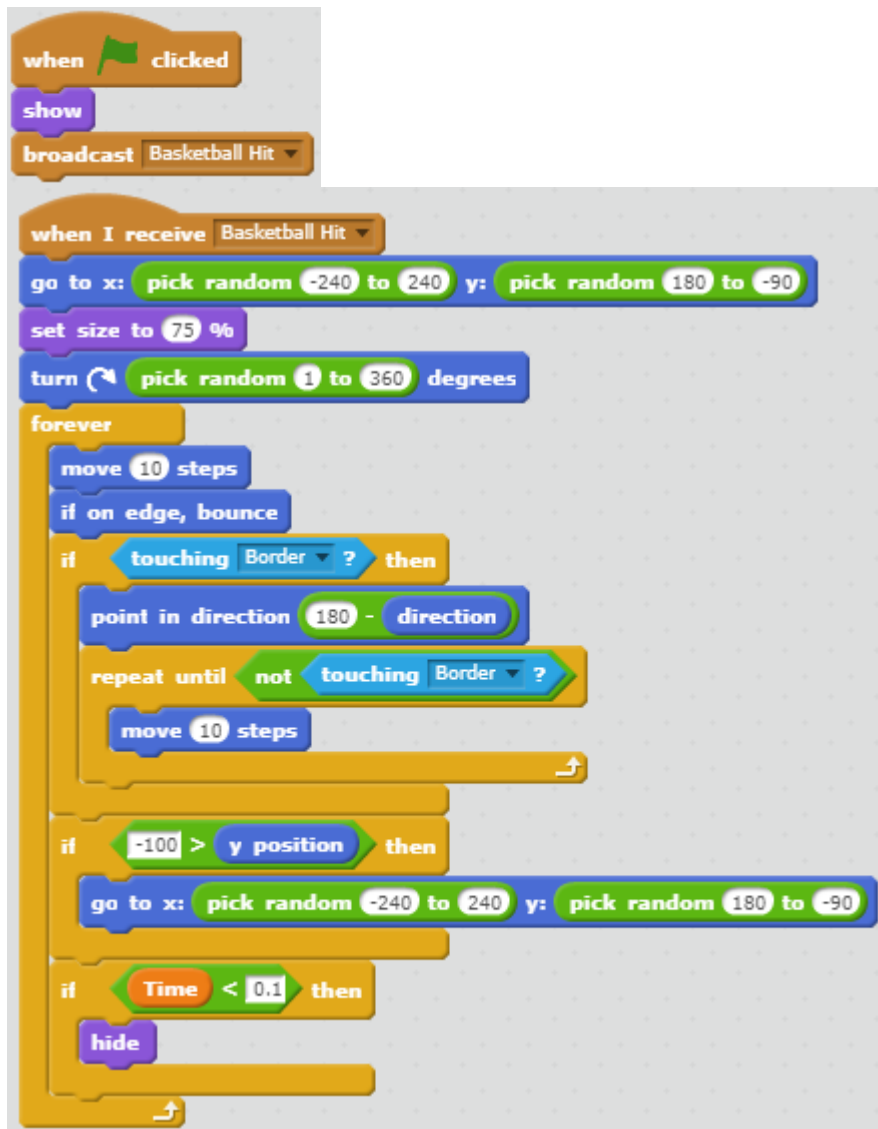
The border code is a bit glitchy so it is programmed to reset if it goes past the border.

The Baseball Hit event causes the baseball to reset.



The Basketball code is very similar but there are some differences so don't just copy and paste the Baseball code.

This is the last long bit of code.



Now its time to add the timers code.

After you add this code the timer will work and the game will stop when the timer ends.



Now that we got a timer working lets code the game to fire when we press “F” on our keyboard and reload when we press the Spacebar.

Put this code in the Bullet





Put this code in the Basketball



Put this code in the Baseball



This game is nearly done now we just need to add in the last 3 bits of code.

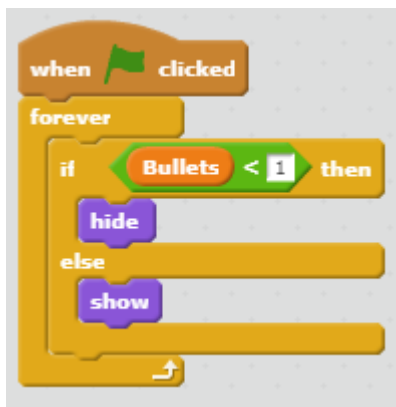
In Bullet 1 add this:



In Bullet 2 add this:



In Bullet 3 add this:



Now this game is finally finished.

If you want to change the time, You change it in the Crosshair code.

If you want to make the game easier you make the Bullet bigger not the Crosshairs.

If you do change the game I would love to see it so if you do please tell me. I am at the advanced table most of the time.