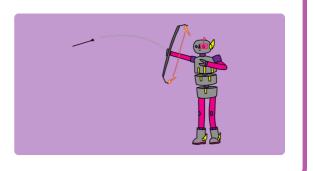


# **Archery**

Shoot arrows as close to the bullseye as you can.

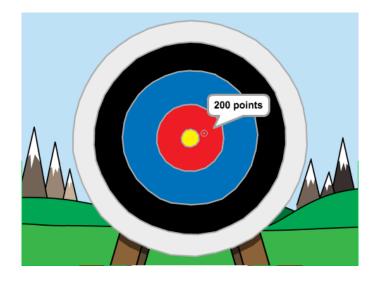




# Step 1 Introduction

You are going to learn how to create an archery game, in which you have to shoot arrows as close to the bullseye as you can.

### What you will make





# What you will need

#### **Hardware**

• A computer capable of running Scratch

#### **Software**

Scratch 3 (either online (<a href="http://rpf.io/scratchon">http://rpf.io/scratchon</a>) or offline (<a href="http://rpf.io/scratchon">http://rpf.io/scratchon</a>)

#### **Downloads**

The starter project can be found here (http://rpf.io/p/en/archery-go).



### What you will learn

- Use animations
- Use broadcasts
- Use random numbers



### Additional information for educators

You can find the solution for this project here (http://rpf.io/p/en/archery-get).

### Step 2 Aiming arrows

Let's start by creating an arrow that moves around the screen.

Open the Scratch starter project.



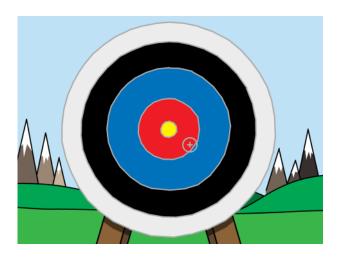
Online: open the starter project at rpf.io/archeryon (http://rpf.io/archeryon).

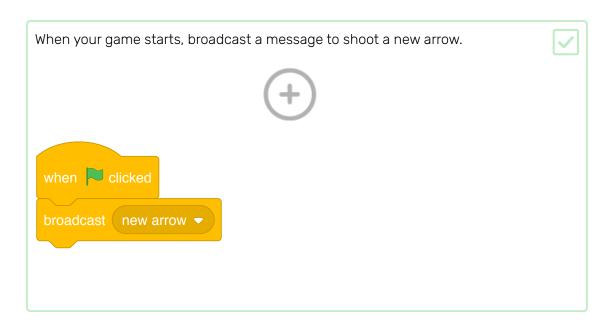
If you have a Scratch account you can make a copy by clicking **Remix**.

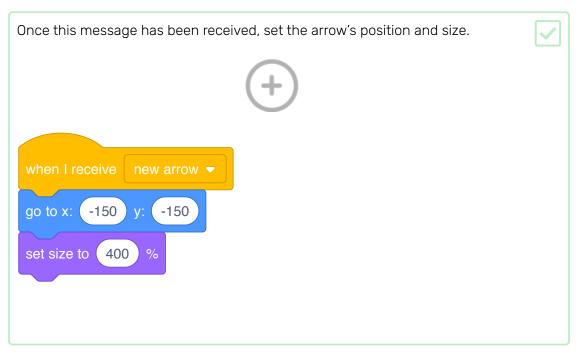
**Offline**: open the **starter project** (<a href="http://rpf.io/p/en/archery-go">http://rpf.io/p/en/archery-go</a>) in the offline editor.

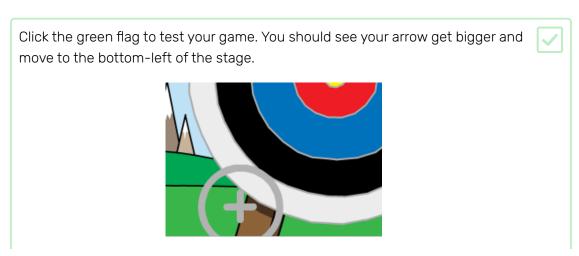
If you need to download and install the Scratch offline editor, you can find it at rpf.io/scratchoff (http://rpf.io/scratchoff).

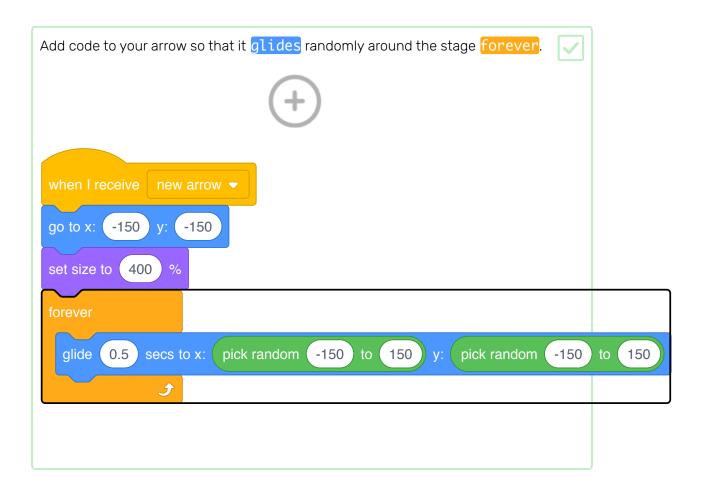
In the starter project, you should see a target backdrop and a cross hair sprite.

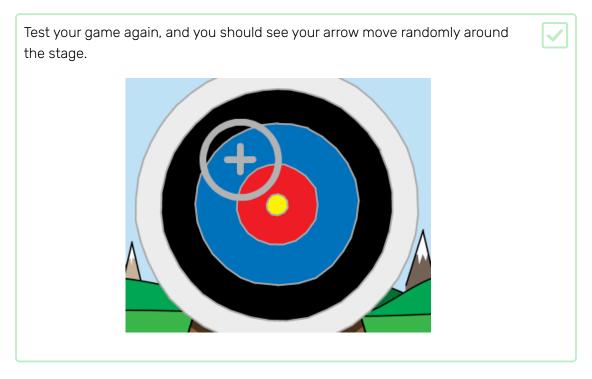






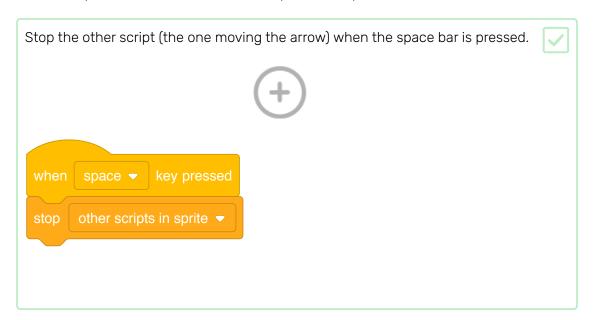






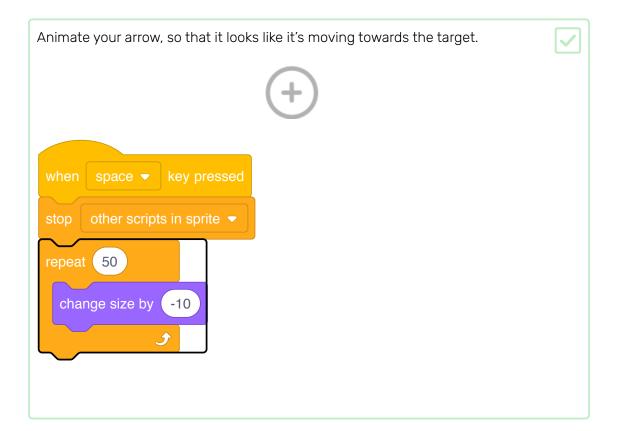
# Step 3 Shooting arrows

Let's code your arrow to shoot when the space bar is pressed.



Test your project again. This time, your arrow should stop moving **when the space bar is pressed**.



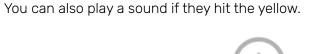


Test your game again. This time, when you press the space bar you should see your arrow get smaller, as if it's moving towards the target.



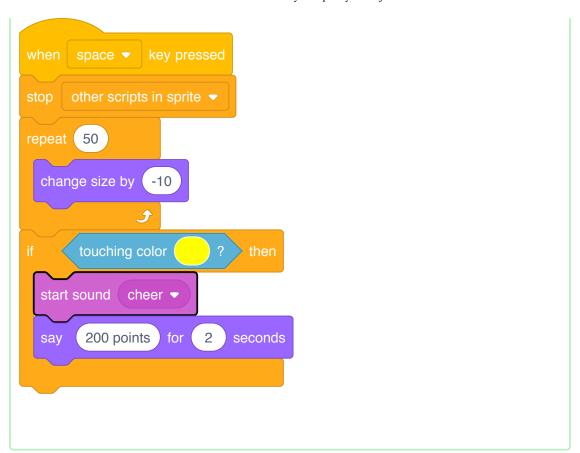


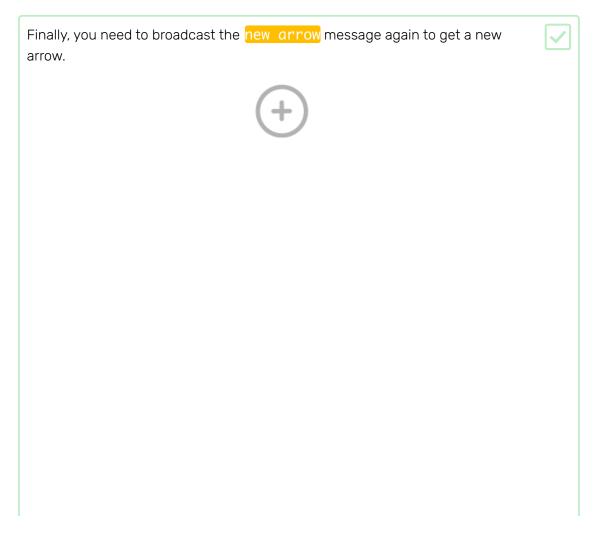
Once your arrow is at the target, you can tell the player how many points they have scored. For example, they could score 200 points for hitting the yellow. change size by touching color 200 points say seconds

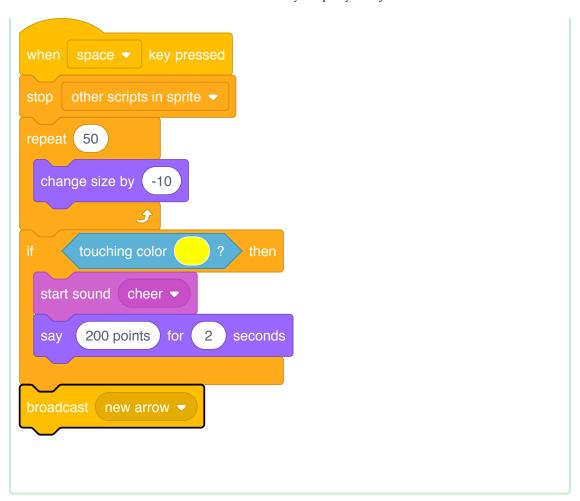


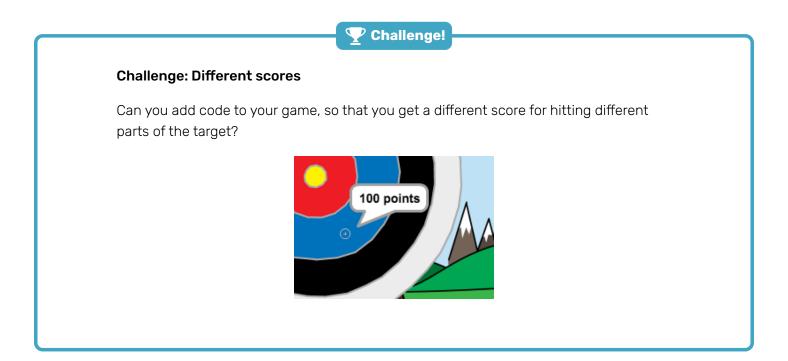








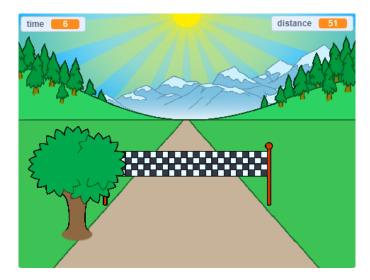




# Step 4 What next?

Take a look at the **Sprint (https://projects.raspberrypi.org/en/projects/sprint)**Scratch project.

You are going to learn how to create your own sprint game, in which you have to use the left and right arrow keys to get to the finish line as quickly as you can.



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View project & license on GitHub (https://github.com/RaspberryPiLearning/archery)