

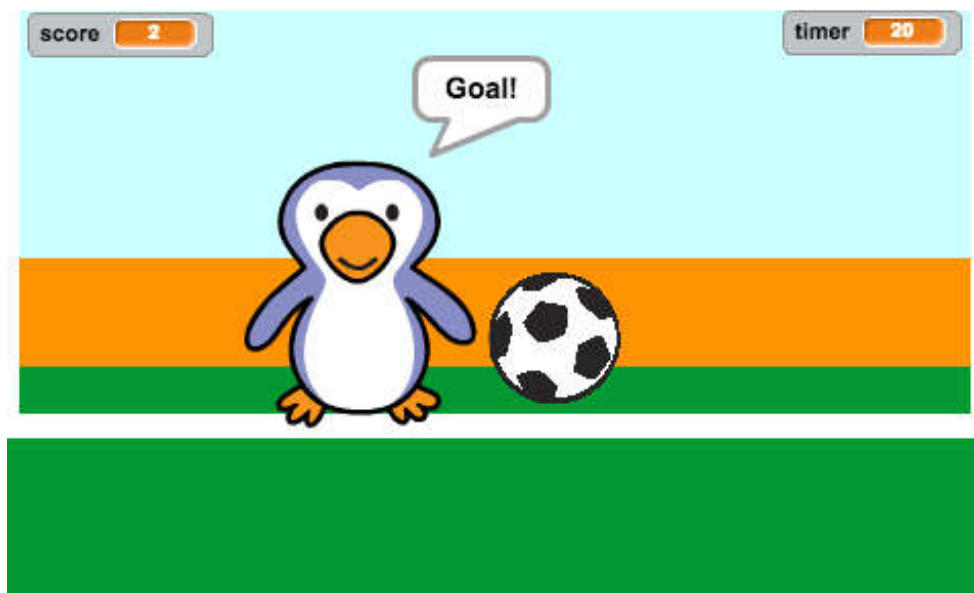
Beat the Goalie

{code
club}

Introduction

SAMPLE

In this project you'll learn how to create a football game in which you have to score as many goals as you can in 30 seconds.



Step 1: Moving the football

Let's code the ball to move across the bottom of the stage.

✓ Activity Checklist

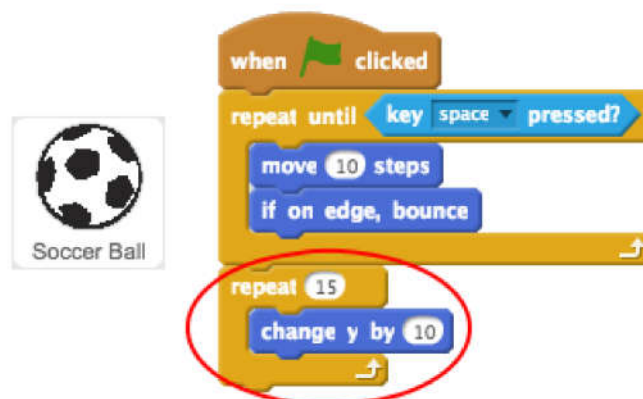
- ☐ Open the 'Beat the Goalie' Scratch project. Your club leader will give you a copy of this project, or you can open it online at jump.to/cc/goalie-resources.
- ☐ Click on your football sprite. Add this code, so that the football moves along the bottom of the screen until the space bar is pressed.



- ☐ Click the green flag to test your project. Your football should bounce along the bottom of the screen until the space bar is pressed.

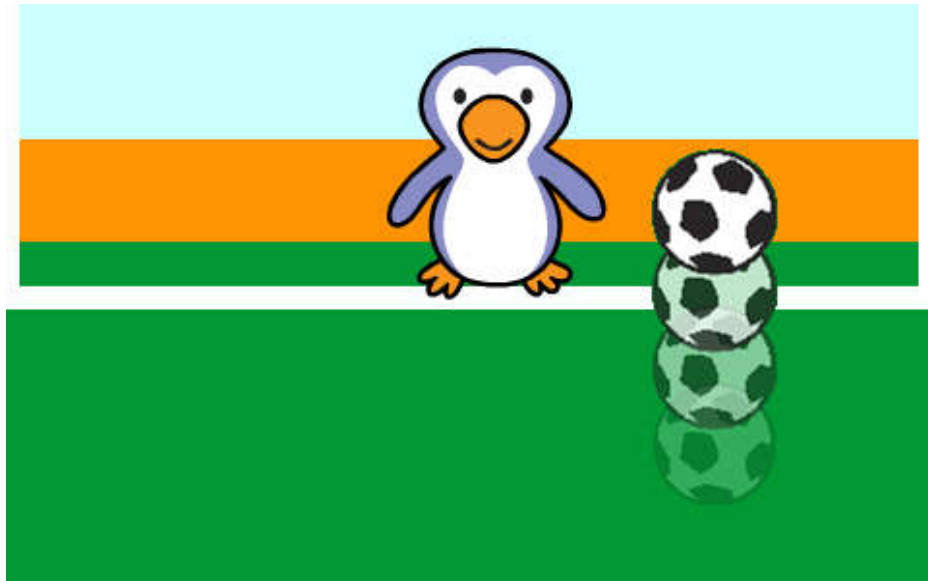


- ☐ Add this code to your football sprite, so that the football moves towards the goal after the space bar has been pressed.



- ☐ Click the green flag to test your code. This time, press the space bar

and your football should move towards the goal.



- ☐ Click the green flag to test your code. What happens if you click the flag a second time? Can you use this block to fix the problem?



[Save your project](#)

Step 2: Was it a goal?

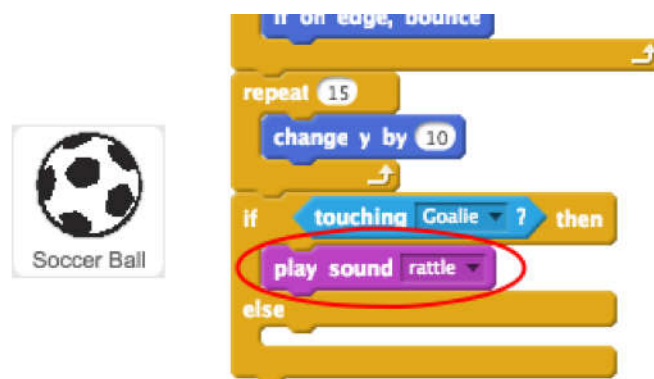
Once the ball has reached the goal, there's a decision to make. **If** the ball is touching the goalie then it has been saved, **else** it's a goal.

✓ Activity Checklist

- ☐ Add this code to the end of your football sprite code, so that you can check whether the ball is touching the goalie.

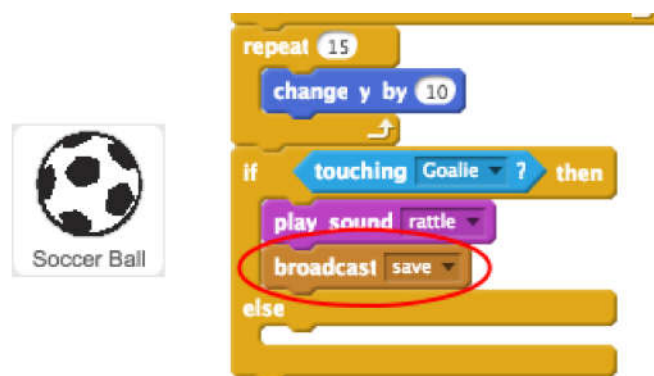


- ☐ Play the 'rattle' sound **if the goalie has saved the ball.**

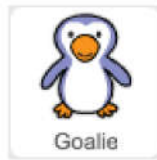


- ☐ You can also broadcast a message to the goalie, so that they can tell you that the ball has been saved.

Broadcast a 'save' message when the ball has been saved.



- ☐ You can now code your goalie to say 'Save!' when they receive the message.



- ☐ Test your code by trying to score a goal. If your goalie saves the goal they should say 'Save!'.



Save your project

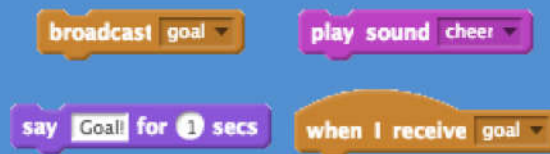
Challenge: Goal!

Can you play a sound and code your goalie to say 'Goal!' when a goal has been scored?

Remember that a goal has been scored if the ball is not touching the goalie.



Here are some code blocks you'll need:



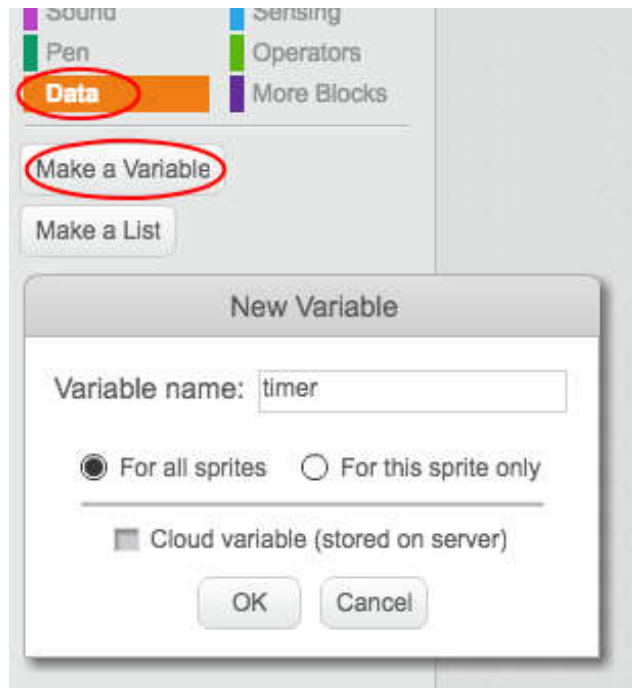
Save your project

Step 3: Adding a timer

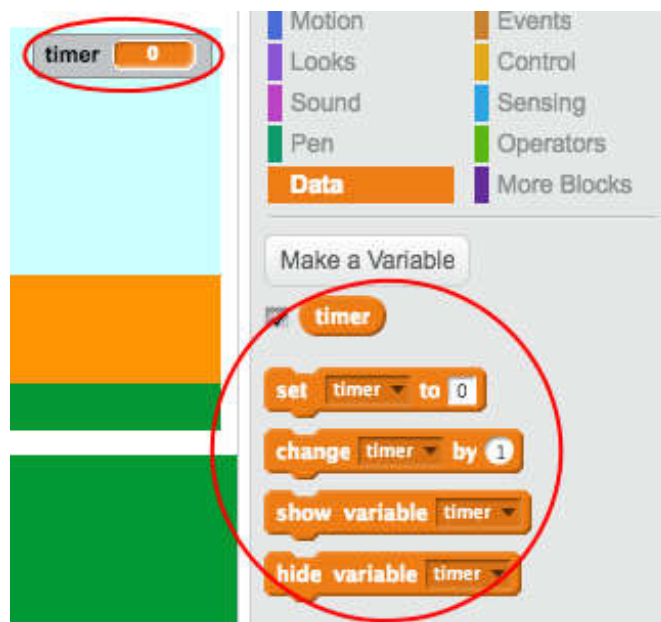
Let's add a timer, so that the player has to score as many goals as they can in 30 seconds.

✓ Activity Checklist

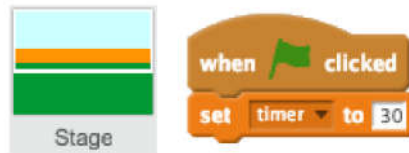
- ☐ First, you'll need to click **Data**, then click 'Make a Variable' and create a new variable called **timer**.



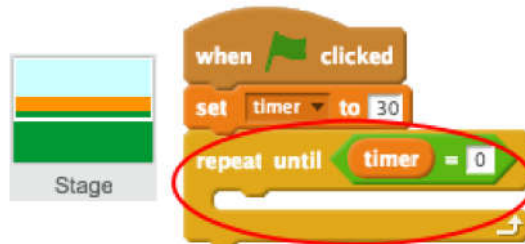
- You should now see your new variable on the stage. You should also see some new variable blocks that you'll use to make your timer.



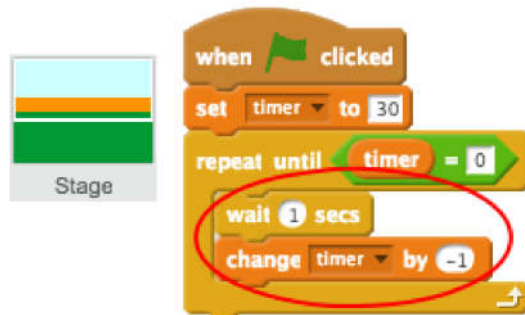
- Click on your **stage**, and add this code to set the **timer** to 30 at the start of the game.



- ☐ Next, you'll need to add a **repeat until** block, so that the timer can run until it gets to 0.



- ☐ Reduce your timer by 1 every second until it reaches 0.



- ☐ Once the timer has reached 0, you should play the 'whistle' sound and then stop the game.

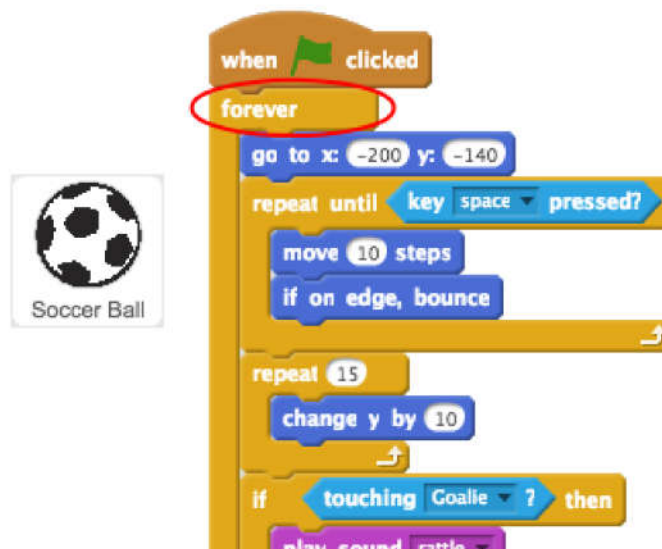


- ☐ Click the green flag to test your code. Your timer should start at 30, and end at 0.



You can change your timer to start at 10 if you don't want to wait for 30 seconds!

- ☐ You only have the chance to score 1 goal! To have more than 1 chance, add a **forever** block around your **football** sprite. You can also add a **wait** block between attempts.



Save your project

Challenge: Adding a score

Can you add a **score** variable to your game?

- ☐ You should set the score to 0 at the start of the game;
- ☐ You should add 1 to your score every time a goal is scored.

Here's the code you'll need:



Save your project