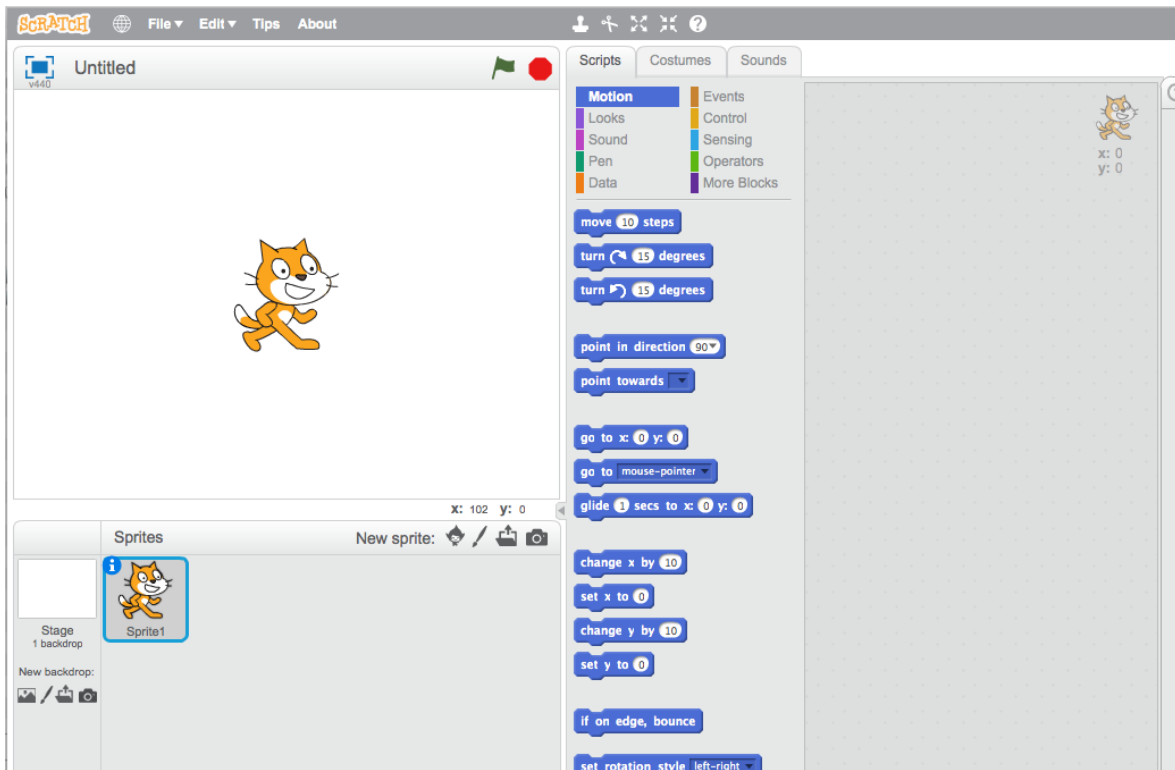


Maze Project HSS Code Club

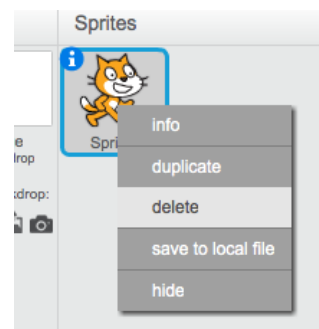
SET UP SPRITE

*Open Scratch 2



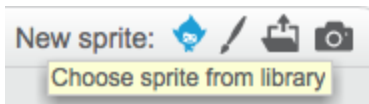
Sprites: Sprites in Scratch are the things that you control. The cat that you can see is a sprite called Felix, who is the Scratch mascot.

*Let's get rid of him for now, by right-clicking on him, and clicking 'delete' or using the scissors.

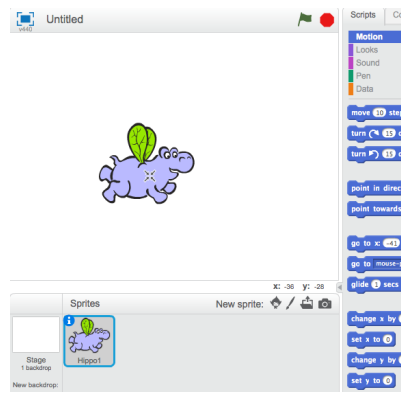


*Add a Sprite to the stage:

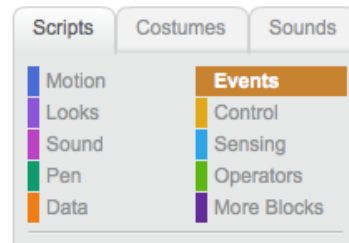
Let's add a new sprite from the library by clicking on the pointy head character



Find a sprite from Animals, Fantasy or Transportation Category and add it to the stage.



*Now let's animate the Sprite using the color coded Scratch blocks under the Scripts tab



Add these 3 blocks to the sprite script making sure that they are connected together (like Lego blocks). The code blocks are color-coded.

The algorithm is:

**When the green flag is clicked
 move 10 steps
 say Hello World! for 2 seconds.**



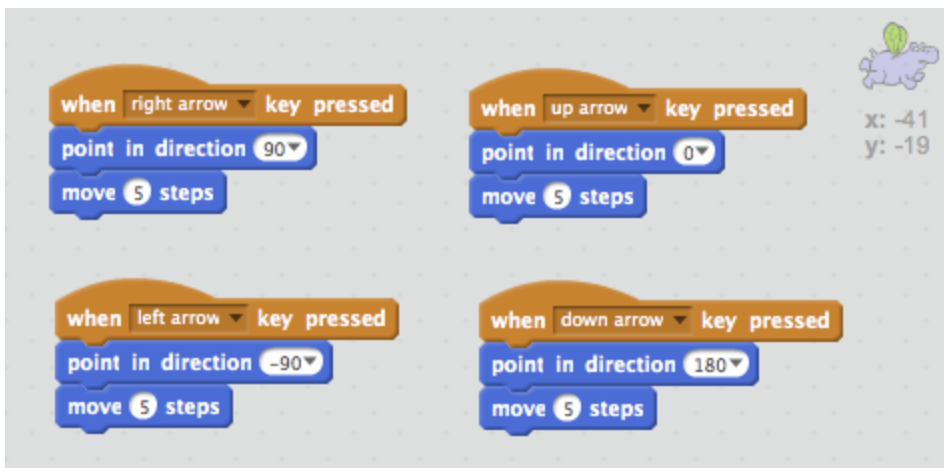
You just wrote your first 3 lines of code. Click the **Green Flag** and **see what happens**

*Let's **save** your progress.

At school you need to be sure you save in the **H: drive**. File -> Save As -> drop down menu find H: Give it a name and click ok to save.

ARROW KEY Controls

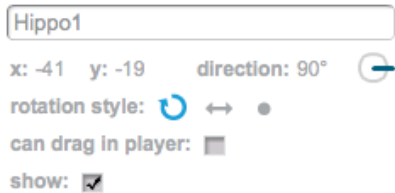
*Now let's set it up so that we can control the sprite by using the arrow keys. Use the control and move menus to create these blocks of code:



[Test your code.](#)

Does your Sprite move as you expect?

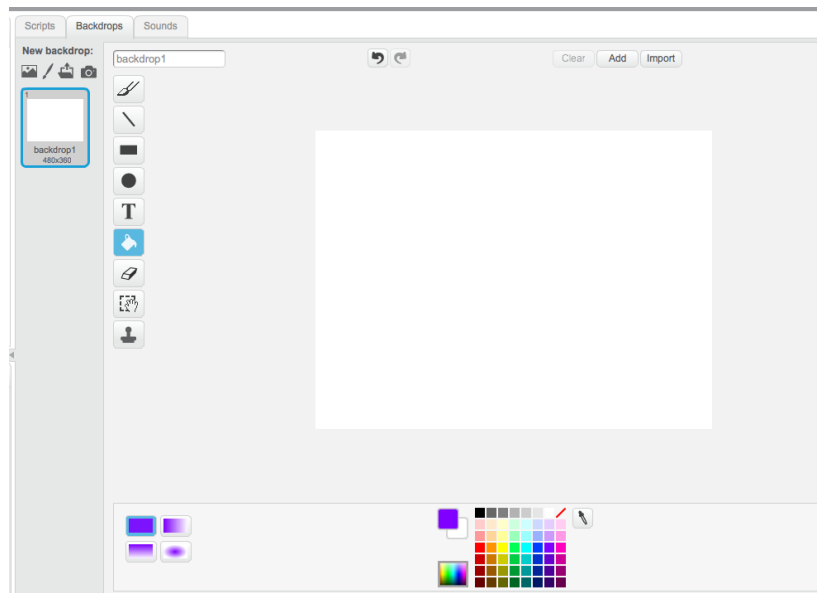
If you don't want your Sprite to face upside down you can set that in the information **i** button on the Sprite and changing the rotation style.

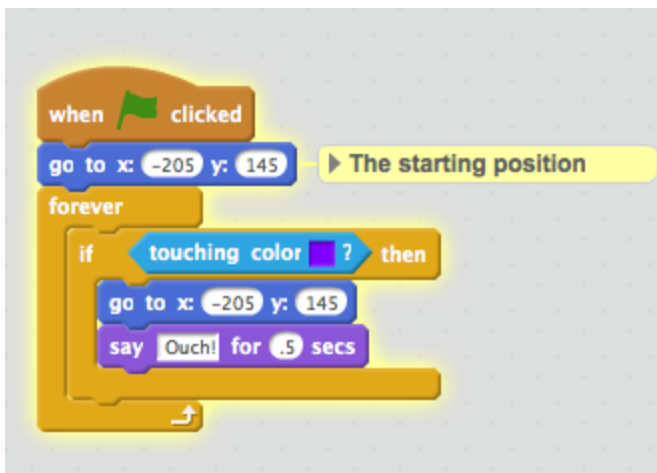


Save your project again with just **Save**.

SET THE STAGE

1. The maze will be the Stage for our Sprite. Click on the Stage and go to the Backdrop tab.
2. Fill the canvas with the color of your choice.

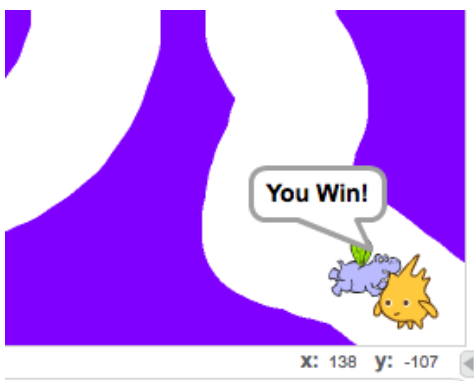
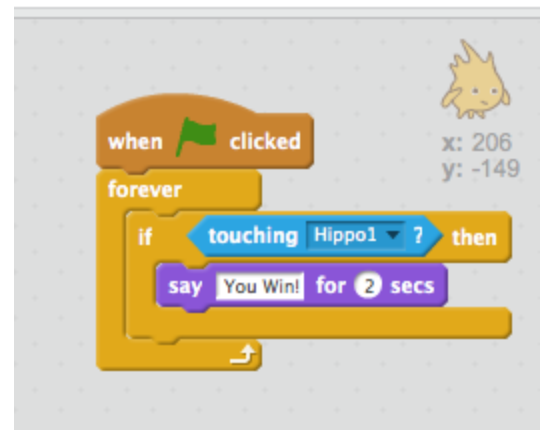




Test your game. Does it work the way you expect?

END CONDITIONS

What happens when your Sprite reaches the end of the maze? You can have another color and add a condition so that when it touches yellow, you win. Or you can add another Sprite at the end. When the maze runner (Hippo1) touches this Sprite, you win.



Challenges:

- Add a timer to see how quick you can complete the maze.
- Add Sprite "items" for your Sprite to collect to get points
- Add another backdrop to the Stage for another level!
- Have the Sprite follow your mouse instead of using the arrow keys

Be sure to [test](#) and [save](#) your work.