

How to make "Cat GO Fight"!

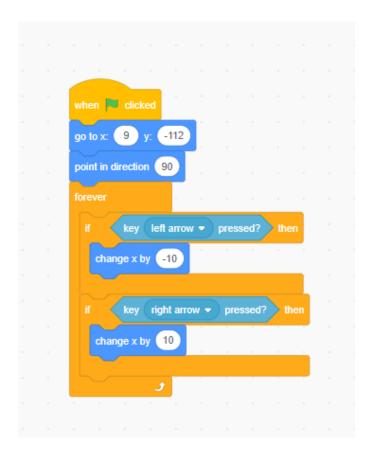
Part 1: Sprites and Costumes

Create a new project by clicking on your profile > My Stuff > New Project.

Firstly, you need to choose a background for your game. Press the purple choose background button and pick a background for your game from the list. This will be the setting for the game and could be anything you want!

Part 2: Movement

Now, we can start working on the code for the main character. First, we need to setup basic movement. Copy this code.



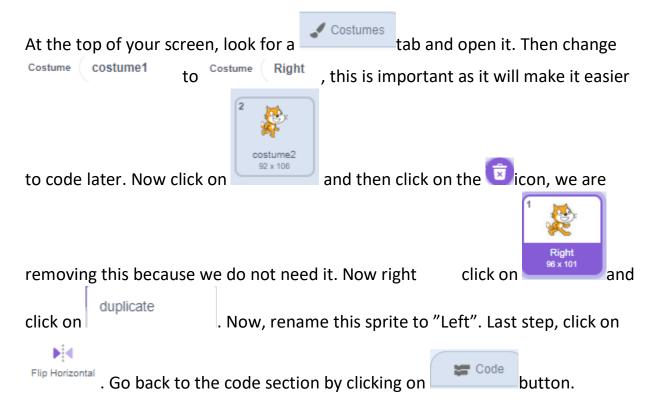
This code starts when the project starts, because of the block. We then move the cat to the ground and make it point to the right. Then we have a forever loop, this makes the code run until the project stops. In that loop we have 2 if statements, these make the cat move left and right when you press the arrow keys.

when 📜 clicked

Now, let's test your game. Click on the Green Flag () near the corner of your screen. If you press the arrow keys on your keyboard the cat should move!

Part 3: Fixing the movement

You may have noticed that the cat is not looking where it's going, because this is a major health and safety risk, we need to fix this.



Now, change the code in the cat sprite to...

```
when clicked

go to x: 9 y: -112

point in direction 90

forever

if key left arrow pressed? then

switch costume to Left 
change x by -10

if key right arrow pressed? then

switch costume to Right 
change x by 10
```

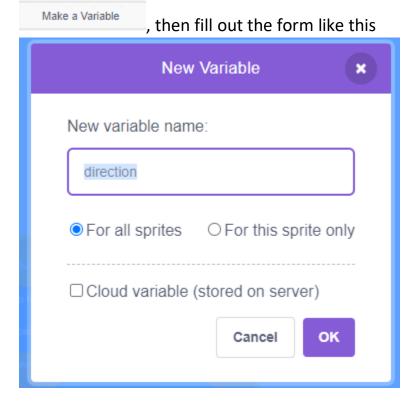
Now, let's test your game again. Click on the Green Flag () near the corner of your screen. If you press the arrow keys on your keyboard the cat should move and face the same way! Health and safety risk solved.

Part 4: Last bit of movement stuff

Let's finish up some movement code to make it easier for us later.

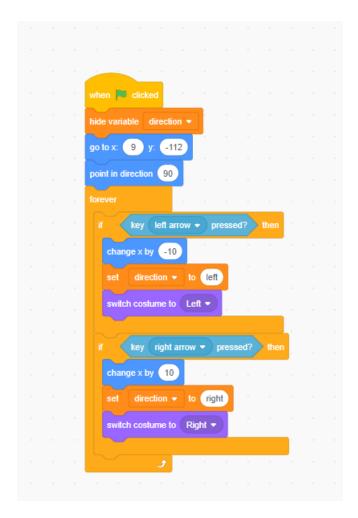
Open the Variables tab by clicking on it. Then right click on Delete the "my variable" variable and click will not use the "my variable" variable in our code.

Now, we need to make a new variable to store the direction of the player. Click on



And click "OK".

Now, change the code in the cat sprite to... $\label{eq:code} % \begin{center} \$

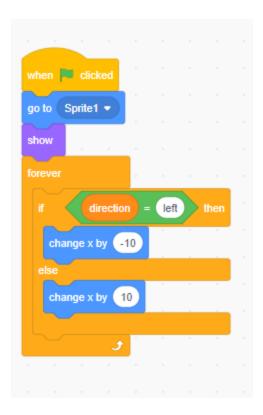


Part 5: Making the boomerang

Create a new sprite in your project by clicking on the list. This will be the boomerang sprite!

and pick a sprite from

Then, Add this code to the Boomerang Sprite...



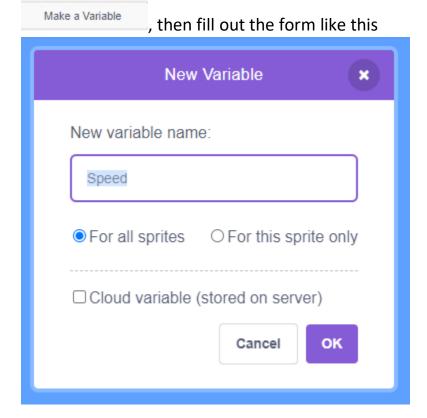
This code makes the boomerang go to the player, makes sure the boomerang is visible and (in a loop) allows the player to control the boomerang, via the direction variable we made earlier!

Now, let's test your game again! Click on the Green Flag () near the corner of your screen. If you press the arrow keys on your keyboard the cat should move, and the boomerang should move as well! The game just needs some enemies then where done!

Part 6: Enemies!

Create a new sprite in your project by clicking on and pick a sprite from the list. This will be the enemy sprite.

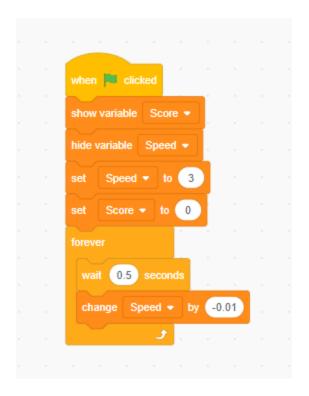
Now, we need to make a new variable to store the speed of the game. Click on



And click "OK".

Now, make another variable called Score. This is to show the score of the player.

Add this code to the enemy sprite...



This resets all the variables and gradually decreases the speed variable.

Also add this code...

```
when clicked

hide

go to x: 5 y: 107

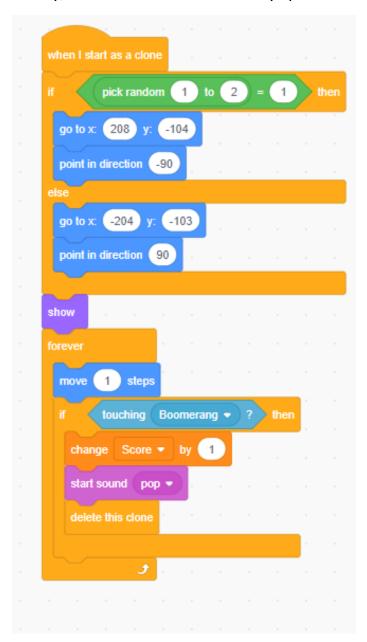
forever

wait pick random Speed to 3 seconds

create clone of myself •
```

This uses scratches clone system to create clones of the enemy, with a break between (Speed) and 3 seconds. Speed will become smaller, meaning the game will speed up and get harder.

Finally, add this code to the enemy sprite...



This code makes the enemies move and die when you shoot them.

Part 7: Why won't the cat die?

You may have noticed that the cat is not dying, lets fix this.

Change the code in the cat sprite to this...

```
when clicked

go to x: 9 y: -112

point in direction 90

forever

if key left arrow pressed? then

set direction to left

switch costume to Left change x by -10

if key right arrow pressed? then

set direction to right

switch costume to Right change x by 10

if touching Enemy ? then
```

Now, let's test your game again! Click on the Green Flag () near the corner of your screen. If you press the arrow keys on your keyboard the cat should move, and if you touch an enemy you die! You're done!

Part 8: What next?

You're done! Now, think what you could do to improve your game. You could add powerups that allow the cat to jump, you could make it harder, or you could make multiple types of enemies.

You can see our versions of the game here:

Cat Ninja: https://scratch.mit.edu/projects/886912215

Cat Ninja (Harder): https://scratch.mit.edu/projects/884288282

Cat Ninja (With Powerups): TODO

Other People Projects (Add Yours!): https://scratch.mit.edu/studios/33528608