

Felix and Herbert

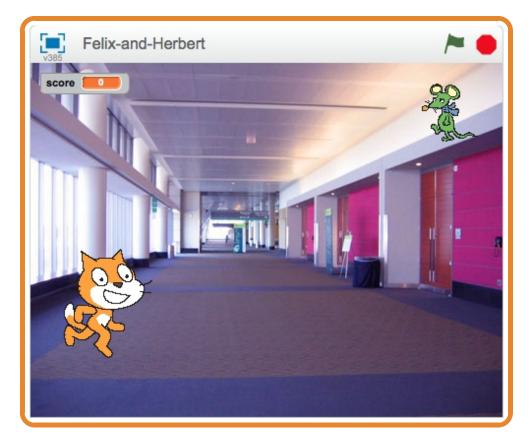


These projects are for use outside the UK only. More information is available on our website at http://www.codeclub.org.uk/. This coursework is developed in the open on GitHub, http://github.com/CodeClub/ come and join us!

Languages > English > Beginner Scratch > Felix and Herbert

Introduction

We are going to make a game of catch with Felix the cat and Herbert the mouse. You control Herbert with the mouse and try to avoid getting caught by Felix. The longer you avoid him the more points you score, but don't get caught because your score will go down!



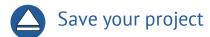
STEP 1: Felix follows the mouse pointer

 Start a new project. Click on the stage next to the sprite and switch to the Backdrops tab, and then click the Choose Backdrop from library button and choose the backdrop indoors/hall. Delete the original blank backdrop. Click on the sprite, and then click on the i button to the top left of the Sprite. Change the name of the sprite to Felix. Make sure Felix only points left-right by clicking this button: Create this script: when clicked in Events Section forever in Control Section point towards mouse-pointer in Motion Section in Looks Section in Sound Section 	Activity Checklist	
Choose Backdrop from library button and choose the backdrop indoors/hall. Delete the original blank backdrop. Click on the sprite, and then click on the i button to the top left of the Sprite. Change the name of the sprite to Felix. Make sure Felix only points left-right by clicking this button: Create this script: when clicked in Events Section forever in Control Section point towards mouse-pointer in Motion Section move 10 steps in Motion Section in Looks Section		
Delete the original blank backdrop. Click on the sprite, and then click on the <u>i</u> button to the top left of the Sprite. Change the name of the sprite to Felix. Make sure Felix only points left-right by clicking this button: Create this script: when clicked in Events Section forever in Control Section point towards mouse-pointer in Motion Section move 10 steps in Motion Section in Looks Section	Click on the stage next to the sprite and switch to the Backdrops tab, and then click the	
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Make sure Felix only points left-right by clicking this button: Create this script: when clicked In Events Section forever In Control Section point towards mouse-pointer In Motion Section move 10 steps In Motion Section next costume In Looks Section		
Create this script: when clicked In Events Section forever In Control Section point towards mouse-pointer In Motion Section move 1D steps In Motion Section next costume In Looks Section	name of the sprite to Felix.	
Create this script:	Make sure Felix only points left-right by clicking this button:	
when clicked In Events Section forever In Control Section point towards mouse-pointer In Motion Section move 10 steps In Motion Section next costume In Looks Section	Create this script:	
	when clicked In Events Section forever In Control Section point towards mouse-pointer In Motion Section move 10 steps In Motion Section next costume In Looks Section	

📕 Test your project

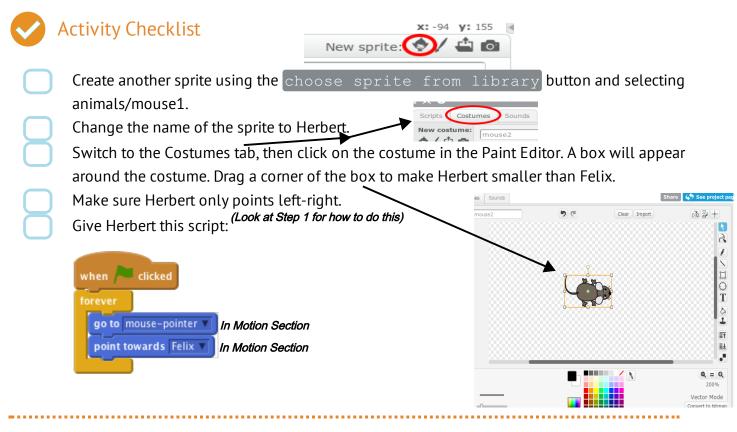
Click the green flag.

Does Felix follow the mouse pointer? Does it look like he's walking when he moves? Does he move at the right speed?



Step 2: Felix chases Herbert

Next, we want Felix to chase Herbert the mouse, rather than the mouse pointer.



Test your project

Click the green flag.

Does Herbert move with the mouse pointer? Does Felix chase Herbert?



Step 3: Felix says when he's caught Herbert

We want Felix to know when he's caught Herbert, and tell us.





Click the green flag.

Does Felix say when he's caught Herbert?



Save your project

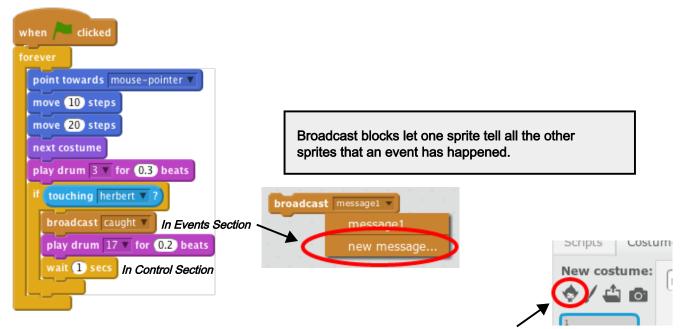
Step 4: Herbert turns into a ghost when he's caught

Instead of Felix saying something, we want Herbert to turn into a ghost when he's caught.



Activity Checklist

Change Felix's script to send this message when he catches Herbert:



- Add a new costume into Herbert by selecting Herbert, going into the Costumes section, and clicking the Choose costume from Library button. Select the fantasy/ghost2-a costume. THIS IS NOT A NEW SPRITE it is a new COSTUME for the Herbert sprite.
- Make the costume smaller by clicking on it in the Paint Editor, and dragging the box that appears, to resize it. *(Look at Step 2 for how to do this)*
- Change the names of Herbert's costumes so the mouse costume is called 'alive' and the ghost costume is called 'dead'. Scripts Costumes Sounds
- Create a new script for Herbert to turn him into a ghost:
- when I receive caught In Event Section switch costume to dead In Looks Section wait secs In Control Section switch costume to alive



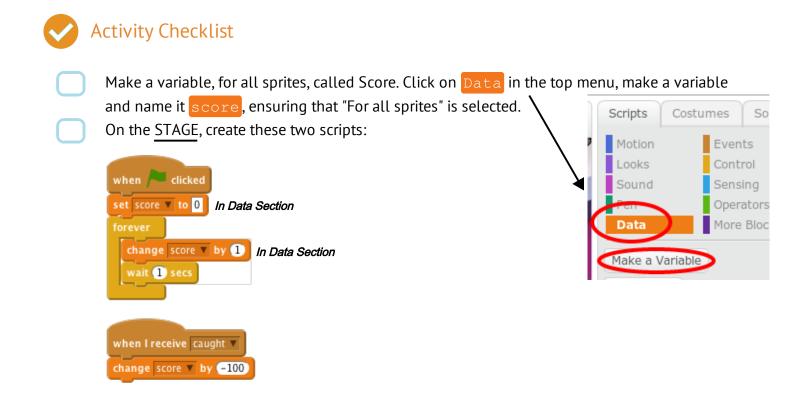
📕 Test your project

Click the green flag.



Step 5: Keep score

Let's add a score so we know how well we do at keeping Herbert alive. We'll start the score at zero and increase it by one every second. If Felix catches Herbert, we'll reduce the score by one hundred.



Test your project

Click the green flag.

Does the score go up by one every second? Does the score go down by one hundred when Herbert is caught? What happens when Herbert is caught before score reaches one hundred? Does the score go back to zero when you start a new game?



Challenges:

MANDATORY (-30 if missing): Change the sprites images to be different characters

OPTIONAL: Add background sounds to make the game more interesting. What else can you add to make the game more fun?