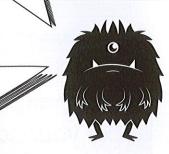
Activity 1: Scratch Pregraming a sprife

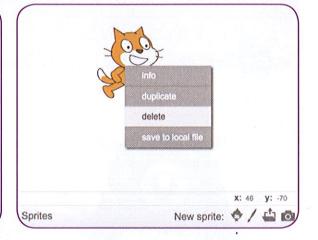
Use Scratch at www.scratch.mit.edu. Click Create to start!

In this activity you will build a script for an animation of a bat. First you will make the bat move between two points on the screen, then you will make the bat talk and finally you will add a screaming sound effect!



Start by right-clicking on the cat 'sprite'. Click **delete** to remove the cat sprite (he is not needed for this animation).

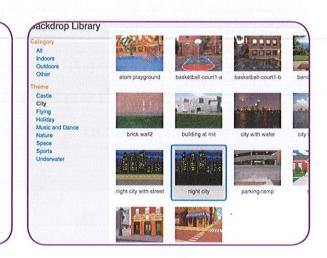
> Scratch has a whole library of different characters (called sprites) to choose from.



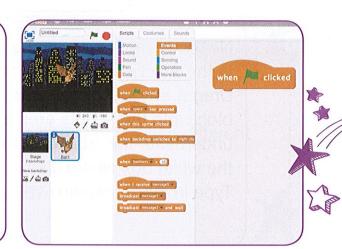
Now let's choose a sprite to animate. Click on the Choose sprite from library or icon. Click on Bat1 to select it and then click on ox. Bat1 should now be in your Sprites box.



Click on the Choose backdrop from library icon in the bottom left corner of the screen to bring up the Backdrop Library. Click on City in the Theme menu on the left. Now click on night city to select it and then click on ok.

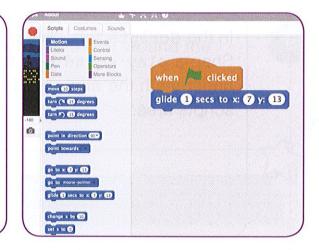


In the Sprites box, click on the Bat1 sprite. Your sprite will appear in the grey scripts area on the right. Now click on the **Scripts** tab at the top. We will build a sequence of commands for the bat called a program. Click on Events. Drag the when / clicked block into the scripts area.



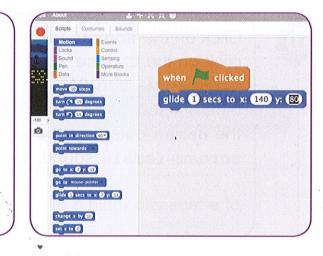
In the **Scripts** tab, click on **Motion**. Drag a glide 1 secs to x: ... y: ... block into the scripts area and place it underneath the when / clicked block so they 'snap' together.

The sprite will follow the commands in the sequence that you order the blocks in.

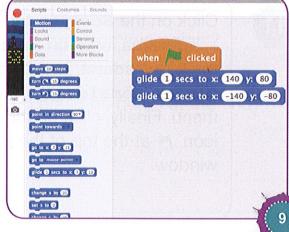


Click in the white x box and type in 140. In the y box, type 80.

These numbers show the position that the bat will glide to. The x-number shows the horizontal position and the y-number is the vertical position. These are called coordinates.

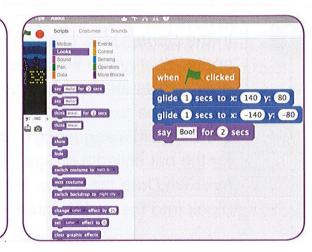


Drag another glide... block into the scripts area. Snap it underneath the first glide... block. Click in the white x box and type in -140. In the y box, type -80. Click on the when rclicked block to preview the bat moving between the two points.



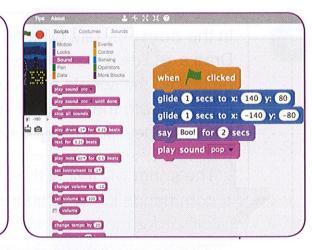
8

Now it's time for some sound effects. In the **Scripts** tab, click on **Looks**. Drag a **say Hello! for 2 secs** block into the scripts area and snap it underneath the **glide...** blocks. Click the white box where it says *Hello!*. Type in **Boo!** instead.



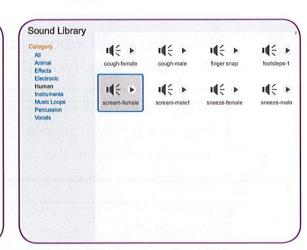
9

In the **Scripts** tab, click on **Sound**. Snap a **play sound pop** block underneath the **say**... block in the scripts area.



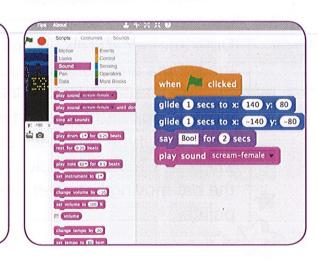
10

Click on the **Sounds** tab and then click on the **Choose sound from library** (icon. (You can choose different sounds as output.) Click on the **Human** category and select the **scream-female** sound. Click on **OK**.



[11]

Click on the **Scripts** tab. In the scripts area, click on the arrow in the **play sound pop** block. Choose **scream-female** in the drop-down menu. Finally, click on the green flag icon at the top of the preview window.



Now try this ...

- o Can you change what the bat says in the speech bubble?
- Can you change how quickly the bat moves between the two different places on screen?
- Can you change the sound effect at the end? Can you record your own?
- Can you add some more glide... blocks so the bat moves between four different points instead of two?



Write a sequence of commands for a partner to move around the classroom as if they were a sprite.



Key words

Can you explain to a partner what these words mean?

command

script

sprite

program

sequence

How did you do?

Think about what you did in this activity. Did you:

o change the sprite to a bat and the backdrop to a night city scene to suit your animation?

- sequence the blocks in your script in the correct order so your animation worked?
- follow the steps to program the sprite to move between two points?
- change what the bat said by adjusting the say... block?
- change the play sound... block so a scream could be heard at the end?

