Grow a dragonfly!

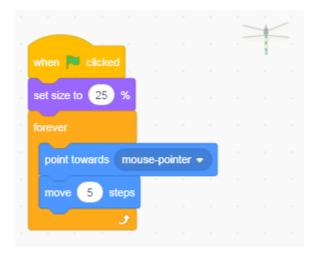
We will help a dragonfly eat insects until it has grown really big!



See full instructions at https://projects//projects//projects//projects//projects//projects//projects//projects//projects//projects//projects/1077515815/.

Step 1: Dragonfly

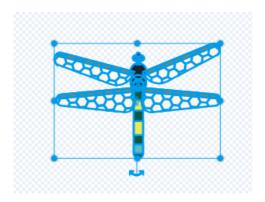
- Choose an outdoor backdrop, or draw one if you prefer.
- Choose the dragonfly sprite (or a different one).
- Add this code to move it:

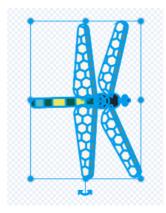


• Test it out. Does it go sideways? You will need to rotate its costume so it points to the right (turn over for how to do this).

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On the Costumes tab, use the arrow to draw a box around the whole costume (it will light up blue once it is selected):



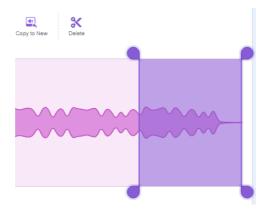


- Then use the 'handle' to rotate the costume to face to the right, like in the second picture.
- Test it again!

Save your project

Step 2: Fluttering wings

- There isn't a sound in Scratch for wings flapping, but we can edit one of the sounds (or import one of our own).
- On the Sounds tab, choose the sound 'Crank' and then select the end of the sound and 'Copy to New':



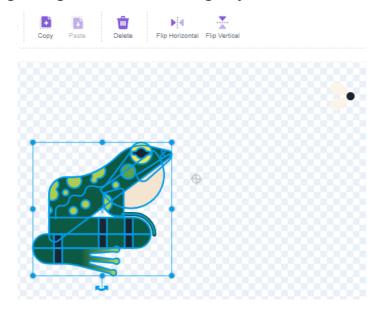
- Call the new sound 'wings' and speed it up by clicking the 'Faster' button until you are happy with it you can also edit it more if you like.
- Then add the block to play the sound, inside the 'forever' loop:



Save your project

Step 3: Add an insect

- There isn't a flying insect sprite in Scratch, but we can make one from the 'Frog 2' sprite!
- Choose this sprite, and go to the Costumes tab. We want to edit the first costume, to keep the fly and delete the frog.
- Select the frog using the arrow tool again, and click 'Delete':



- Now select the fly the same way, and drag it to the centre of the costume.
- We can rename this costume and the sprite, and delete the other costumes I called mine 'fly'.
- Next add the code below to make the fly move about:

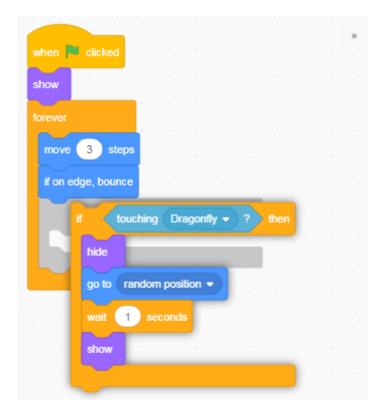


Test your code, does the fly move?

Save your project

Step 4: Eat the insect!

 We want the fly to disappear when it touches the dragonfly, so add an 'if' statement that checks for this and hides (then reappears somewhere else).



- You will also need a 'show' block at the start.
- Test it out!

Save your project

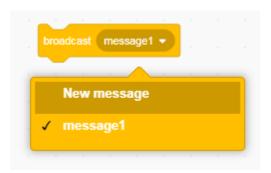
Step 5: Tell the dragonfly to grow!

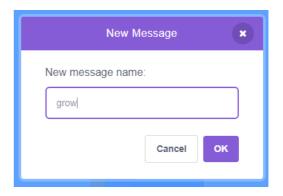
 When the fly has been eaten, we want it to tell the dragonfly to grow bigger, so we will use messages:



 Add the 'broadcast message' block on the fly sprite, and click the dropdown arrow to make a new message — I called mine 'grow':

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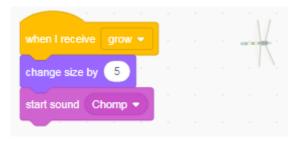




- The 'broadcast message' block goes inside the 'if' statement, at the top.
- Next, on the dragonfly sprite, start a new block of code with 'When I receive grow':



• Choose an eating sound for your dragonfly, and make it grow. Your code should look like this:



How big will your dragonfly get?

Save your project



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