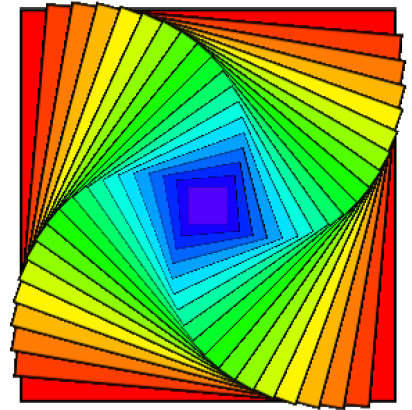


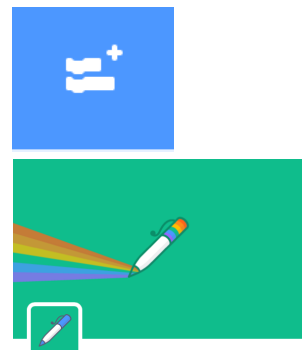
SCRATCH Squirals

Register/login at <https://scratch.mit.edu>

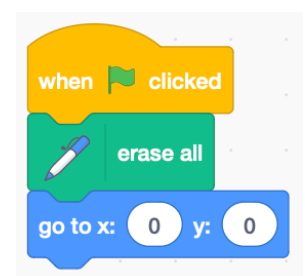
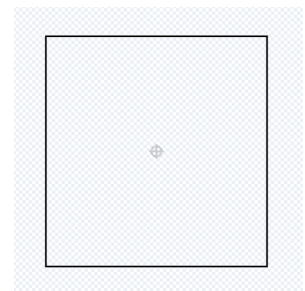
A **squiral** is a square spiral,
not to be confused with a squirrel.



- 1) Click on the **Add Extension** button at the bottom left of the screen.
- 2) Select the **Pen** extension. New **Pen** code blocks appear below the other code blocks.
- 3) Create a new sprite using the **Paint** tool.
- 4) Make a square with a solid outline but no fill colour.
- 5) Centre the square on the sprite.
Use the select arrow if you need to select a square you've already drawn.
- 6) When the **green flag** is clicked, use **erase all** to clear the screen.
- 7) Centre the sprite on the screen with **goto 0,0**

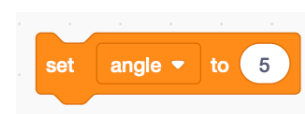


Pen
Draw with your sprites.



Repeatedly rotate the square a small number of degrees.

- 8) Create a variable for the **angle**, and add code to set it to a small number, like 5° (degrees).



You only need to rotate a square 90° before it looks like the same square again.

9) **Repeat** the square  times.

10) Inside the loop, **stamp** the square and **turn** it through **angle** degrees.

11) Make the square a bit smaller each time. Reduce the size by changing it by a small **negative** number *inside the loop*.

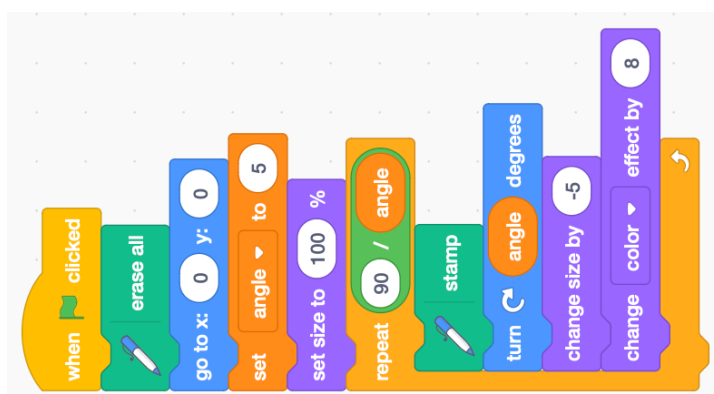
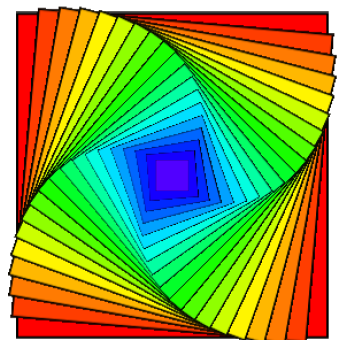
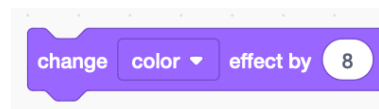
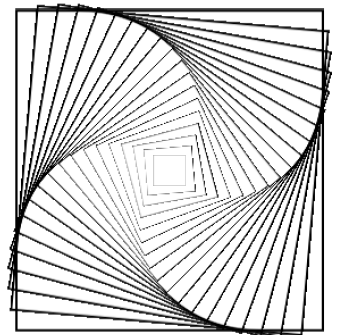
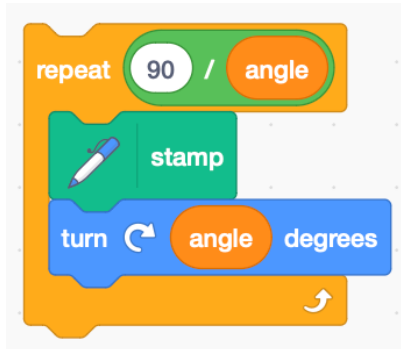
12) Reset the size to 100% at the start.

*Add colour. Fill the costume with **red**.*

13) Go through the colours of the rainbow by changing the colour inside the loop with a **change colour effect**

Choose the colour change so that you see all the colours of the rainbow:

red, **orange**, **yellow**, **green**, **blue**, **indigo**, **violet**.



Remember to **Save** your code with a good name.

Here's the complete code