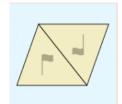


This week we will use: https://tiled.art

Tessellations are tiles you can put together like a jigsaw puzzle, but every piece is the same!

- 1) Click Create
- 2) The tiles can be flipped over and rotated these are its *symmetries*. Click the 2-way Triangles rotated symmetry.



- 3) Draw some kind of animal.
  - You can bend the triangular outline by clicking on an edge to add a control point and then dragging it.
  - Switch between curved and sharp corners by selecting these from the menu:
  - You can add eyes to your animal by switching from editing the tile shape to editing tile detail (select the pen to draw).



4) When your tile is finished you can save your work with the Save button:



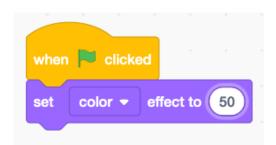
5) To save your work in a Scratch-ready format, click on the second button down (a folder)...



- 6) Select "Export PNG image", and choose "Key tile only" in the **content** menu.
- 7) Click "Export", choose a Title, then "Export" again.

## Register/login at <a href="https://scratch.mit.edu">https://scratch.mit.edu</a>

- 8) Create a new sprite with the PNG you just saved.
- 9) Add code to change the colour of the sprite. The colour effect shifts the colour and can be any number between 0 and 199.

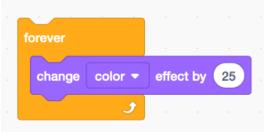


The tile is like a jigsaw piece.

- 10) Duplicate the sprite and turn it upside down by changing Direction from 90 to -90.
- 11) Make this new tile a different colour by changing the colour effect to a different number.

Drag the tiles around and fit them together like a jigsaw puzzle.

- 12) Make the tiles change colours by adding a loop to change the colour effect:
- 13) Duplicate both tiles a few times and fit them together like a puzzle.



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

File > Save now