LINE

This example shows you
how to draw a line of 24 mm (~1 inch) length

← The first three blocks put the cursor back to the (0,0) position, set the direction and clear the stage.

← "Repeat" repeats the blocks inside a certain number of times.

← "Move 10 steps" to define the length of a single stitch.

The number of steps determines the size of the individual stitch.
10 steps = 2 mm stitch
20 steps = 4 mm stitch

Feel free to experiment!

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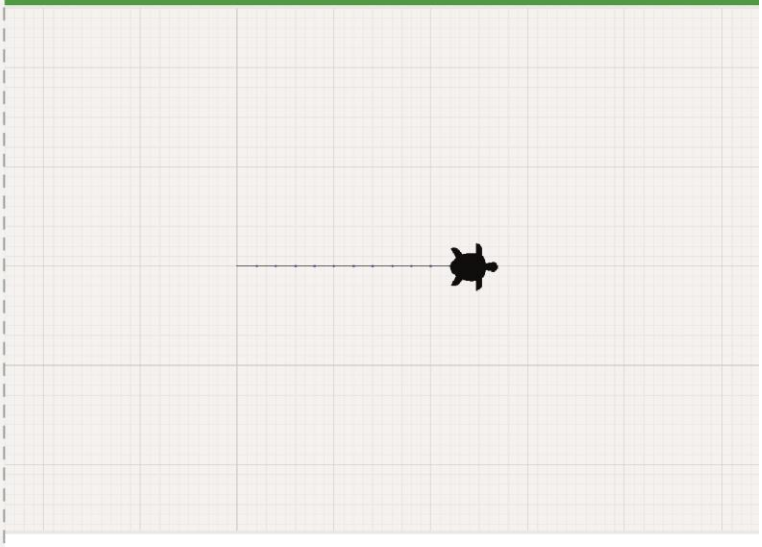
Username: jlin2017

LINE

Now we will stitch a line.
Follow the steps and try to make your own copy of the code!



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CIRCLE

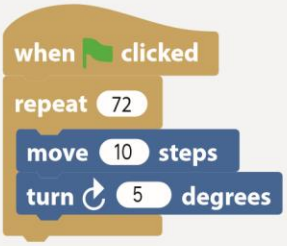
Blocks Needed:

← The block "Repeat" repeats the blocks inside 72 times.

← This block directs the turtle to move forward, making a stitch.

← This block turns the turtle clockwise, the specified number of degrees.

Put the blocks together, run the code, and we just stitched a circle!



For a smaler circle decrease the number of repeats and set turn to **360 / (number of repeats)**.

Ex: set repeat to 36 and set turn to 10 degrees.

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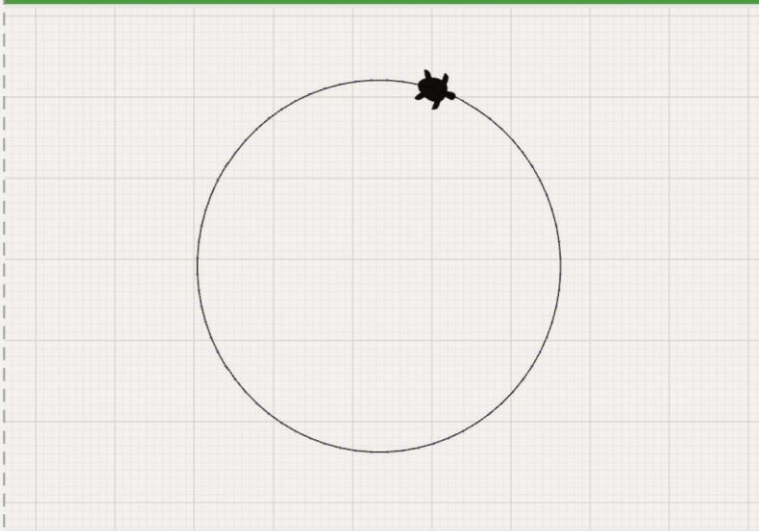
CIRCLE

Let's stitch a circle now.
Follow the steps and try to make your own copy of the code!



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SQUARE

Blocks Needed:

← "Repeat" repeats the blocks inside a certain number of times.

← "Move" moves the turtle forward a certain number of steps.

← "Turn" turns the turtle a certain number of degrees in the direction of the arrow.

Put the blocks together, run the code, and we just stitched a square!

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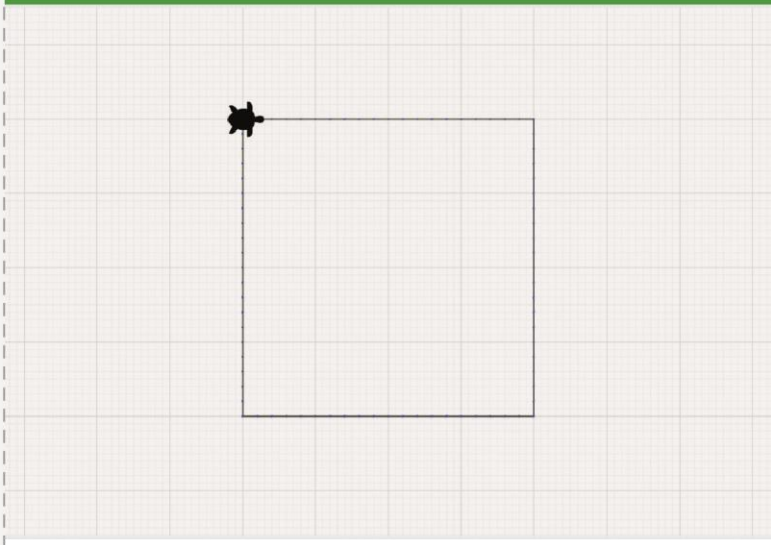
SQUARE

Now, we will stitch a square.
Follow the steps and try to make your own copy of the code!



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PINWHEEL

Blocks Needed:

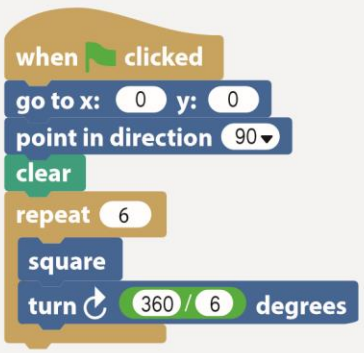
← "Repeat" repeats the blocks inside a certain number of times.

← Insert a block to make the squares. Refer to cards "**Block**" and "**Square**".

← "Turn" turns the turtle a certain number of degrees in the direction of the arrow.

← This operator block divides inputs.

Put the blocks together, run the code, and we just stitched a pinwheel!



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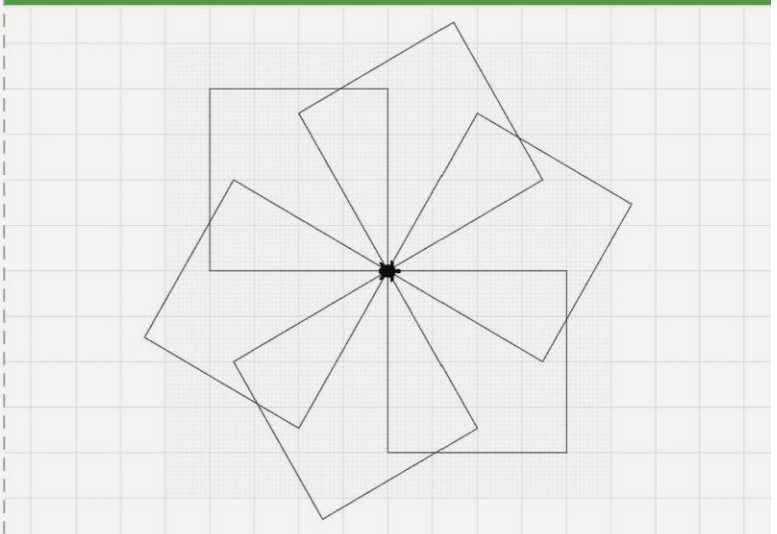
PINWHEEL

Now, we will stitch a pinwheel from squares.
Follow the steps and try to make your own copy of the code!



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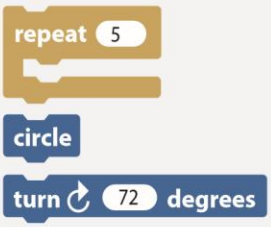
FLOWER

Blocks Needed:

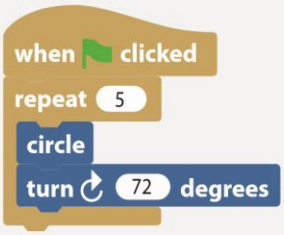


← "Repeat" repeats the blocks inside a certain number of times.

← Insert a block to make the circle. Refer to cards "**Block**" and "**Circle**".

← "Turn" turns the turtle a certain number of degrees in the direction of the arrow.

Put the blocks together, run the code, and we just stitched a flower!



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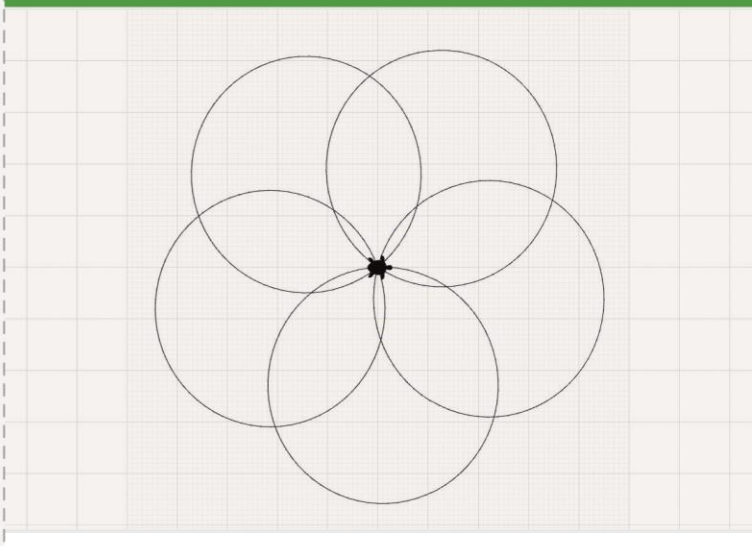
FLOWER

Now, we will stitch a simple flower from circles.
Follow the steps and try to make your own copy of the code!



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TRIANGLE SPIRAL

Next, arrange your code blocks in the correct order and test your code!
You can experiment by:

→ Changing the degrees in the "turn" command by one or two (e.g.: 118 or 121).

→ Changing the number of stitches in the Variable you created by a small amount.

Congratulations on making your first Variable!

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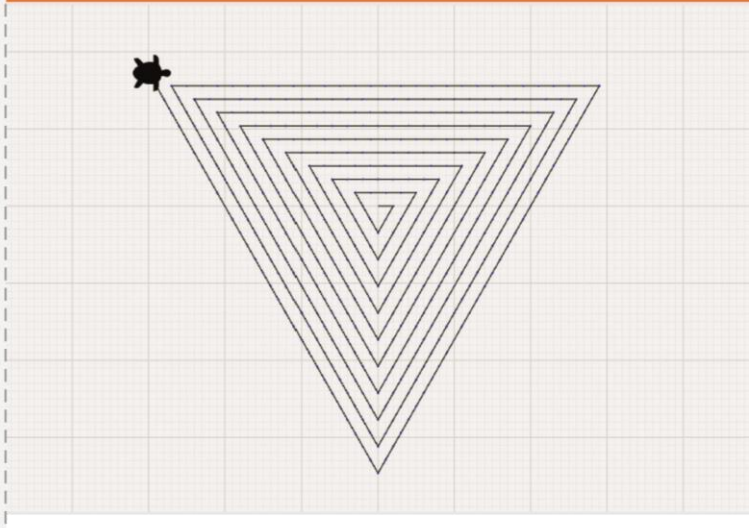
TRIANGLE SPIRAL

In this tutorial, we will stitch a triangle spiral. Starting from the middle, each line of the triangle extends outward by one stitch. By creating this spiral, you'll learn about the powerful concept of Variables!



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