

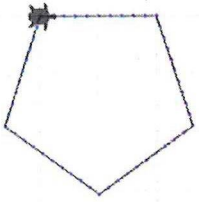
TurtleStitching Embroidery Designs

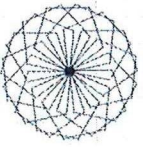
Polygons and Spirals

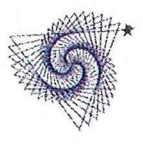
with Cynthia Solomon, Pauline Maas, Kathryn Peake,
and Paul Wege

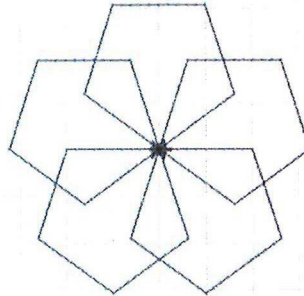
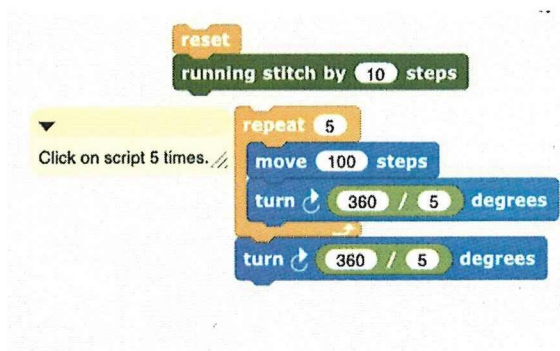
Link: <https://turtlestitch.org>

TurtleStitch, a Logo-inspired environment, lets you create embroidery designs through code. The stitched outputs are not only tangible artifacts, but also powerful tools for thinking

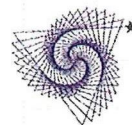
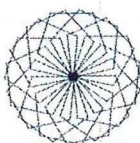
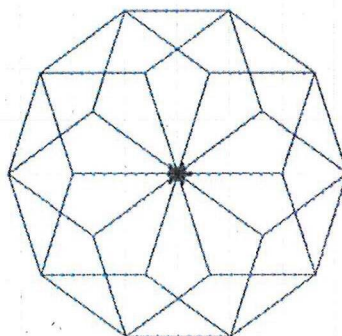
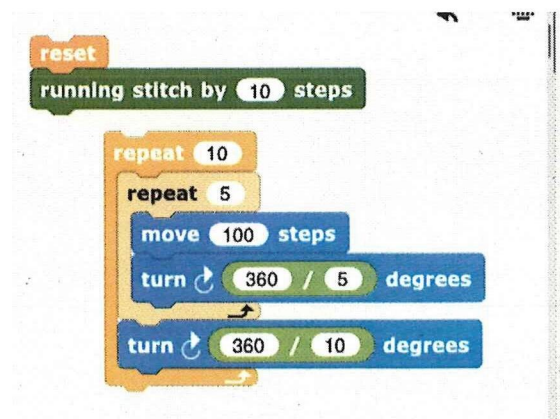
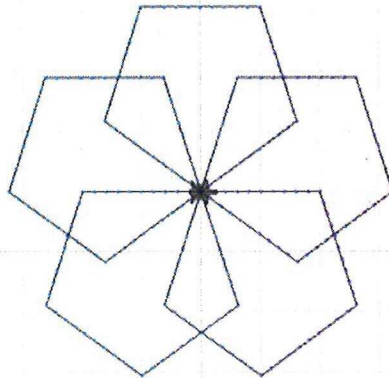
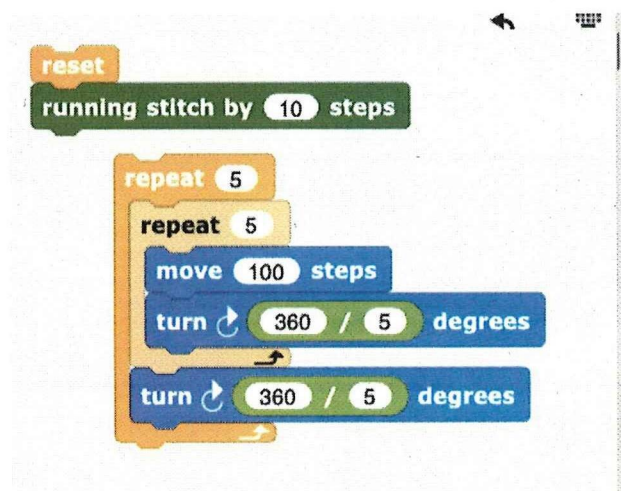
<pre>reset running stitch by 10 steps repeat 360 / 15 move 10 steps turn 15 degrees</pre>	
<pre>reset running stitch by 10 steps repeat 4 move 100 steps turn 360 / 4 degrees</pre>	
<pre>reset running stitch by 10 steps repeat 5 move 100 steps turn 360 / 5 degrees</pre>	

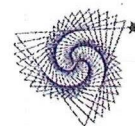
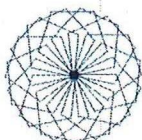
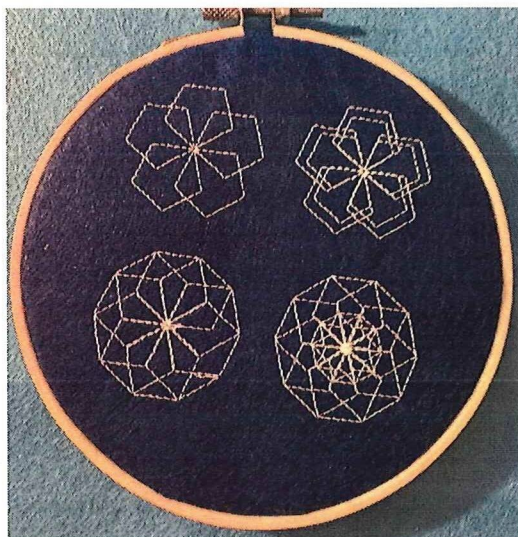
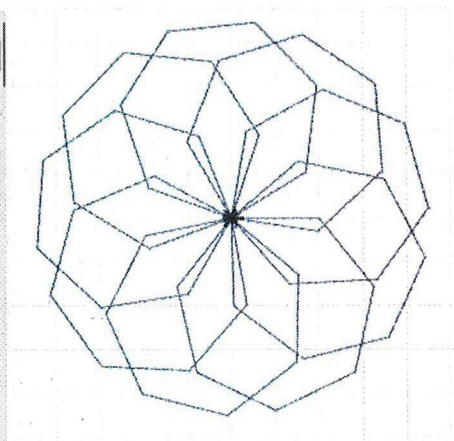
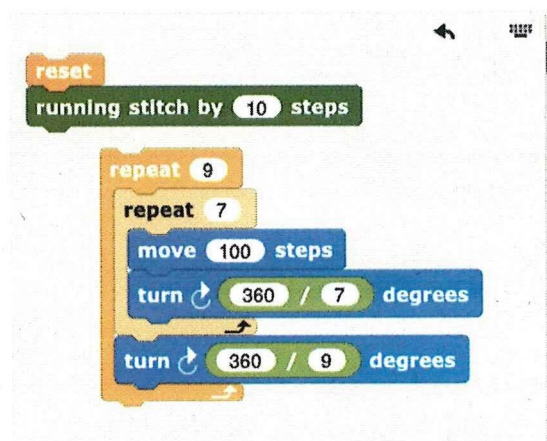
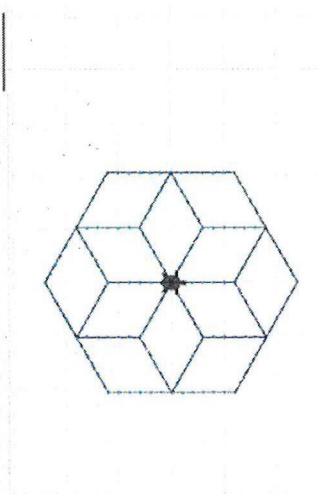
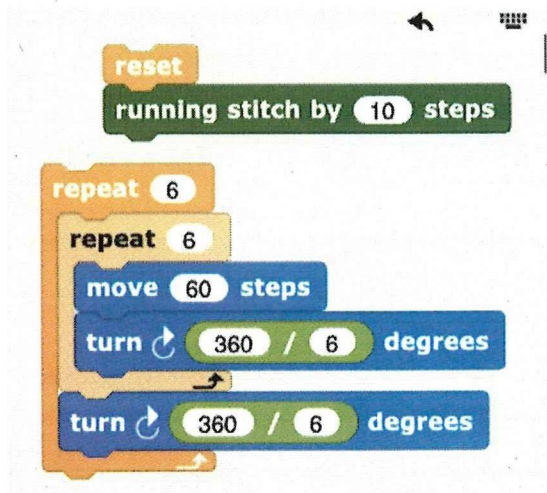




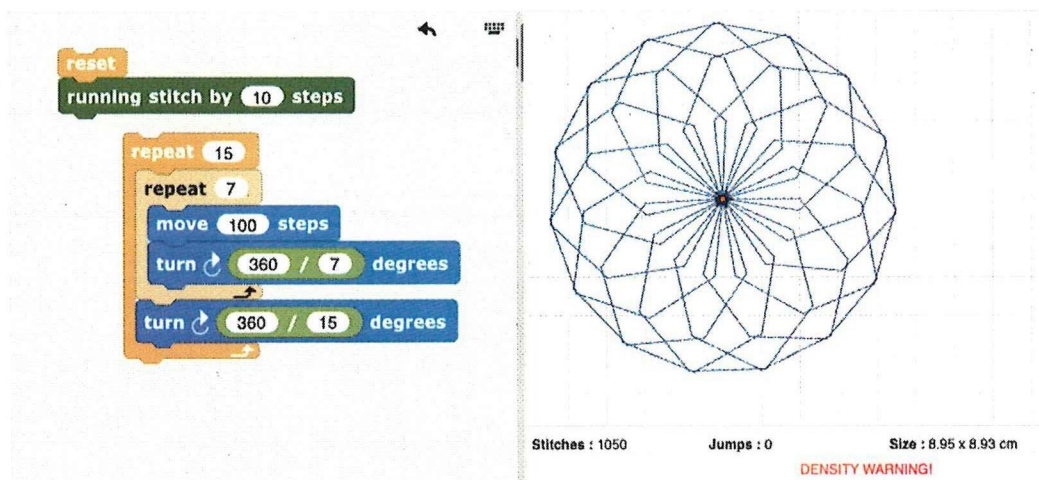


or add a repeat block

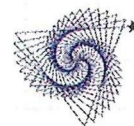
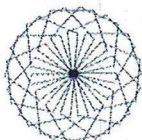
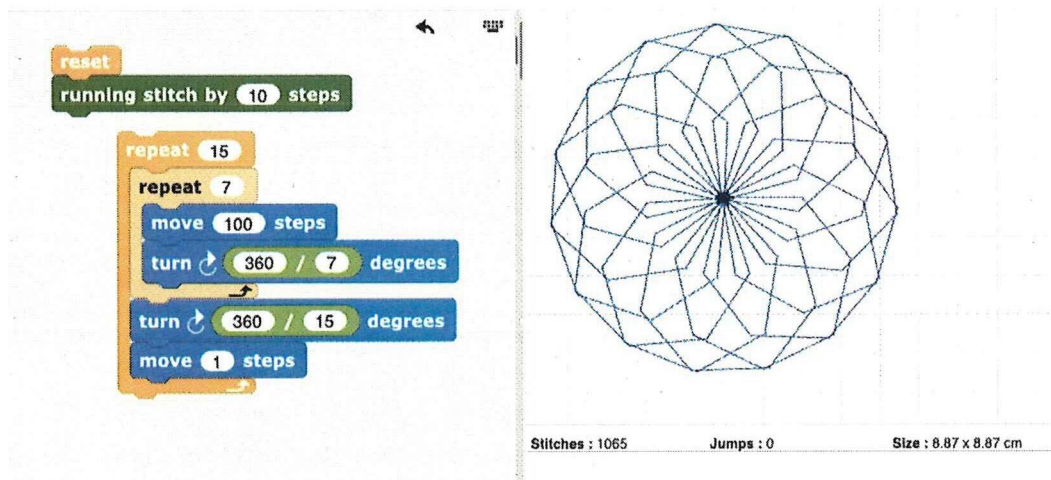




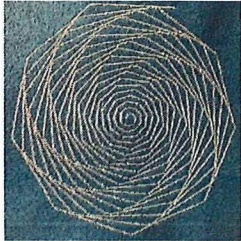
Density Warning – too many layers of thread



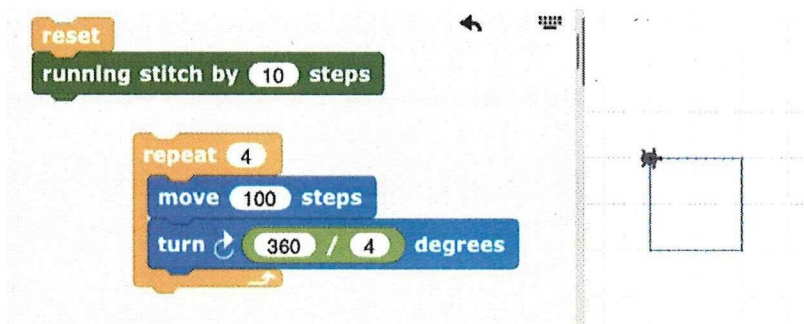
The fix



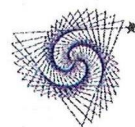
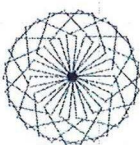
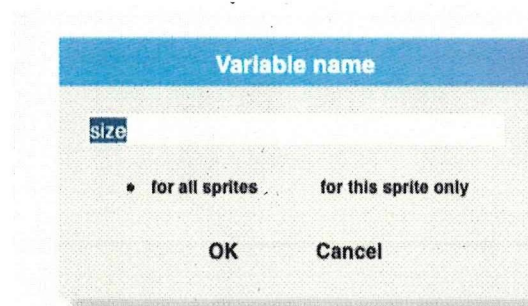
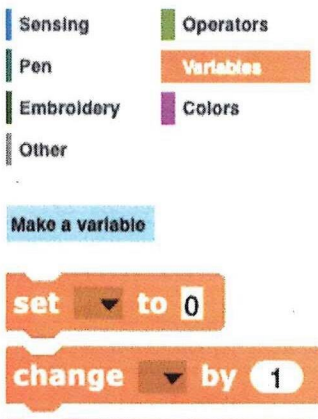
Turtle Spirling



Back to a square



Make a Variable



Pen Variables
Embroidery Colors
Other

Make a variable
Delete a variable



✓ size

set to 0

change by 1

```

reset
running stitch by 10 steps

set size to 5
repeat 10
  move size steps
  turn 360 / 4 degrees
  change size by 5
  
```

size 55

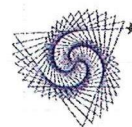
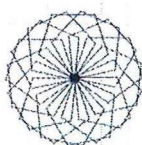
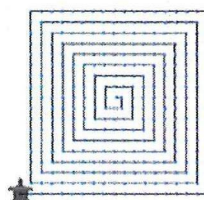


```

reset
running stitch by 10 steps

set size to 5
repeat 35
  move size steps
  turn 360 / 4 degrees
  change size by 5
  
```

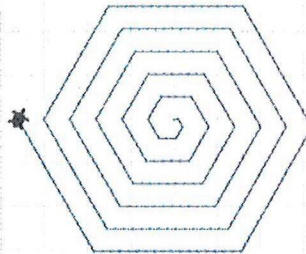
size 180



reset
running stlch by 10 steps

set size to 5
repeat 35
move size steps
turn $360 / 6$ degrees
change size by 5

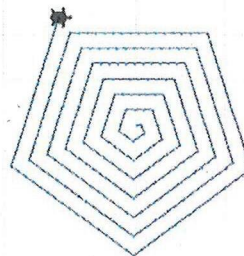
size 180



reset
running stlch by 10 steps

set size to 5
repeat 35
move size steps
turn $360 / 5$ degrees
change size by 5

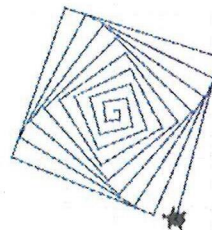
size 180



reset
running stlch by 10 steps

set size to 5
repeat 35
move size steps
turn $360 / 4.1$ degrees
change size by 5

size 180

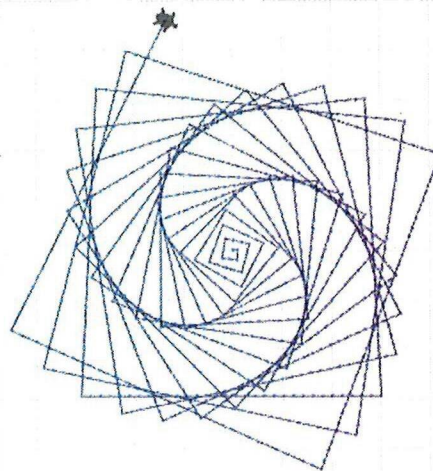


```

reset
running stitch by 10 steps

set size to 5
repeat 70
  move size steps
  turn 3 + 360 / 4 degrees
  change size by 5

```

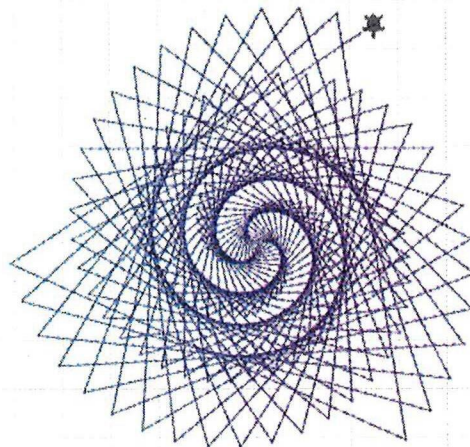


```

reset
running stitch by 10 steps

set size to 5
repeat 150
  move size steps
  turn 3 + 360 / 3 degrees
  change size by 3

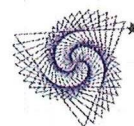
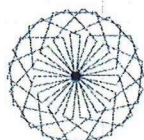
```

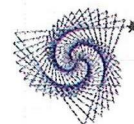
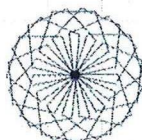
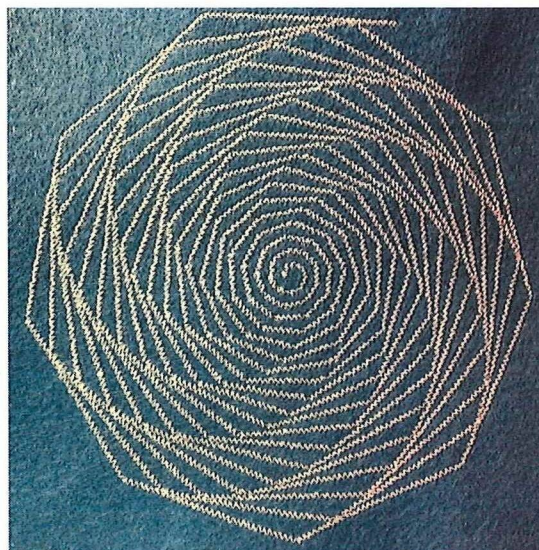
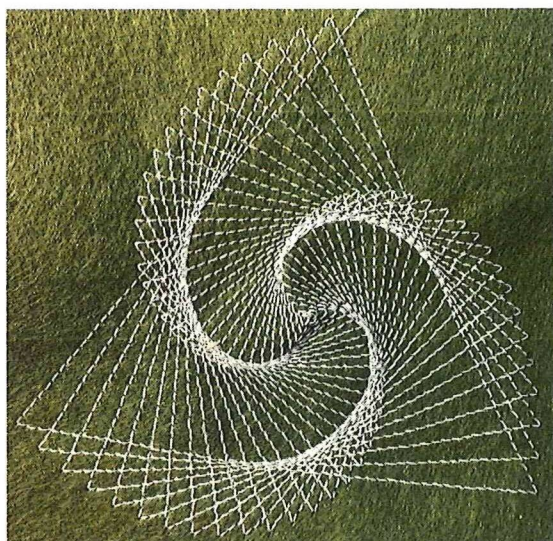
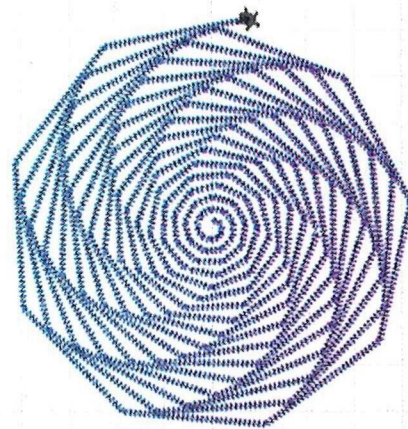
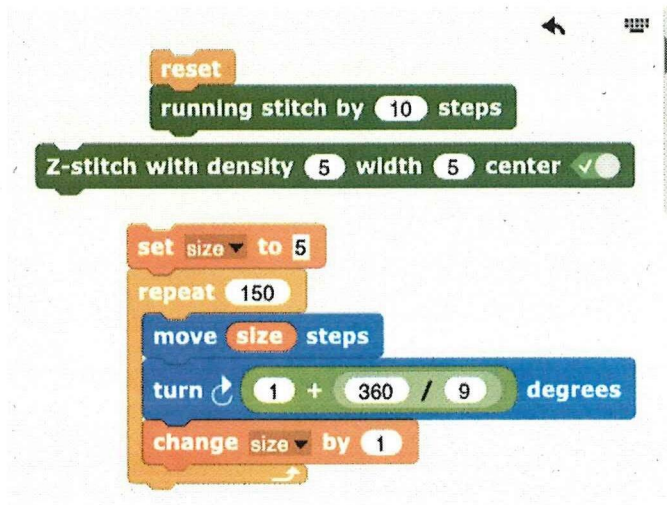


Stitches : 3438

Jumps : 0

Size : 9.65 x 9.06 cm

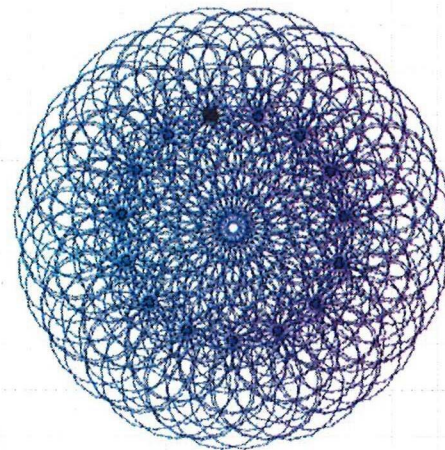




Bonus Play

```
reset
running stitch by 10 steps

set size to 25
set number.of.sides to 15
repeat number.of.sides
  repeat number.of.sides
    repeat number.of.sides
      move size steps
      turn 360 / number.of.sides degrees
    turn 360 / number.of.sides degrees
    move .5 steps
  move size + size steps
  turn 360 / number.of.sides degrees
  move 2 steps
```



Stitches : 10440

Jumps : 0

Size : 9.65 x 9.61 cm

+ • Reset View

☐ X-Ray

☒ Turbo mode

Zoom to fit

Export as SVG

☐ Ignore colors during export

Export as Melco/EXP

Export as Tajima/DST

