"Turtle Tuesday" Logo Challenges

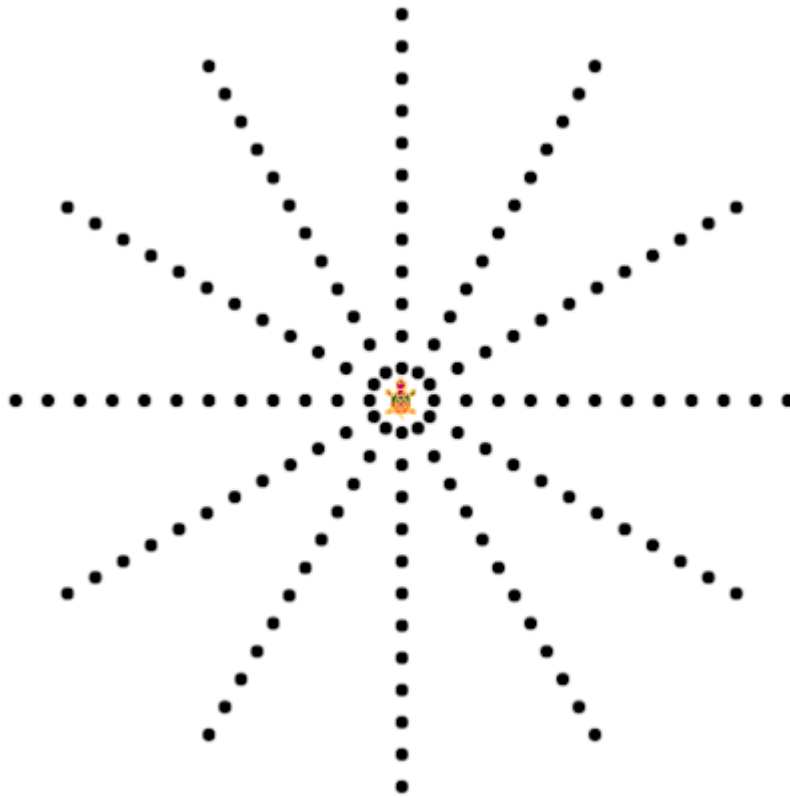**This month features designs that you can draw using DOT and SETWIDTH commands.**

January 7, 2025

Challenge No. 119

For Logo users

Can you draw this design?

Our Solution:

```
TO DOTS
SETWIDTH 4
REPEAT 12 [RAY PU BK 240 RT 30]
SETH 0
END

TO RAY
REPEAT 12 [PU FD 20 PD (DOT)]
END
```
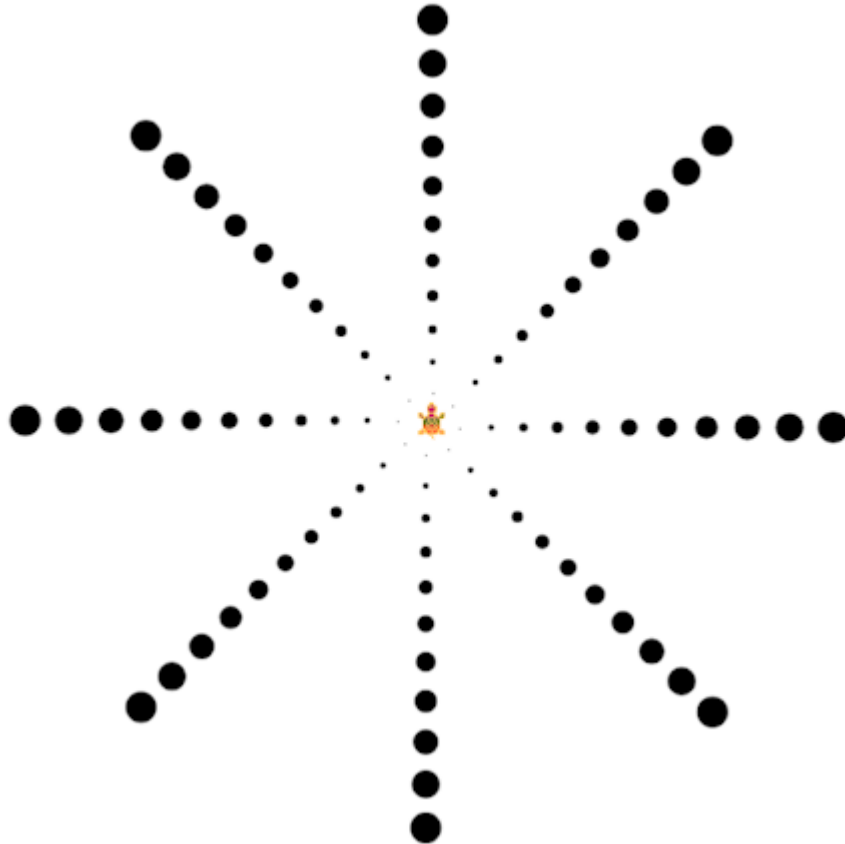
Challenge No. 120

For Logo users

Can you draw this design?

Our Solution:

```
TO BIGGER
  SETWIDTH 1
  REPEAT 8 [RAY PU BK 288 RT 45 SETWIDTH 1]
  SETH 0
END

TO RAY
  REPEAT 11 [PU FD 20+WIDTH PD (DOT) SETWIDTH WIDTH + 1]
END
```
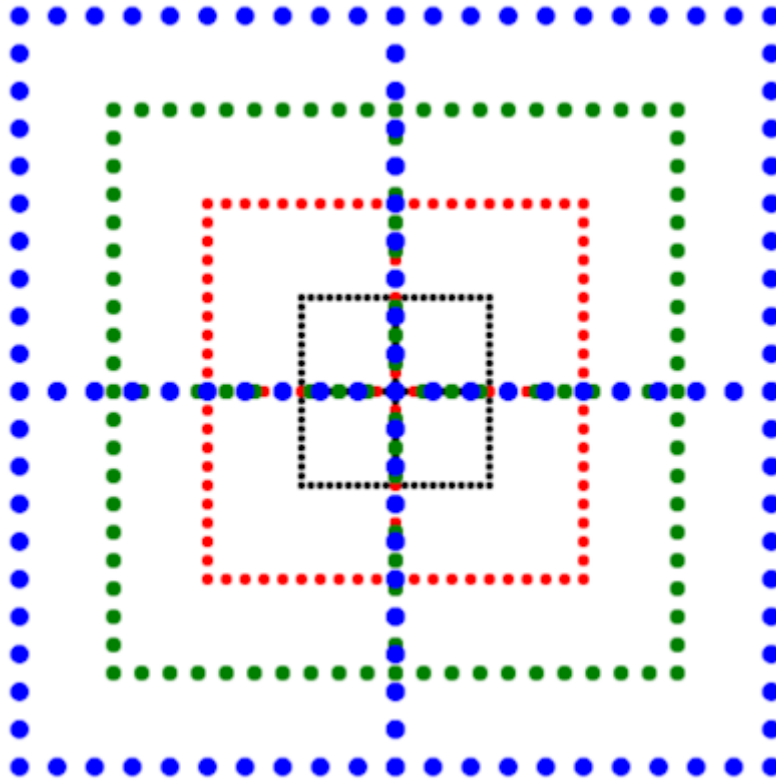
Challenge No. 121

For Logo users

Let's add some color in this design with lots of squares!

Our Solution:

```
TO SQS
SETWIDTH 2
SETPC "BLACK
REPEAT 4 [REPEAT 4 [SIDE 5 RT 90] RT 90]
RT 90
SETWIDTH 3
SETPC "RED
REPEAT 4 [REPEAT 4 [SIDE 10 RT 90] RT 90]
RT 90
SETWIDTH 4
SETPC "GREEN
REPEAT 4 [REPEAT 4 [SIDE 15 RT 90] RT 90]
RT 90
SETWIDTH 5
SETPC "BLUE
REPEAT 4 [REPEAT 4 [SIDE 20 RT 90] RT 90]
RT 90
END
```

```
TO SIDE :DIST
REPEAT 10 [(DOT) PU FD :DIST PD]
END
```
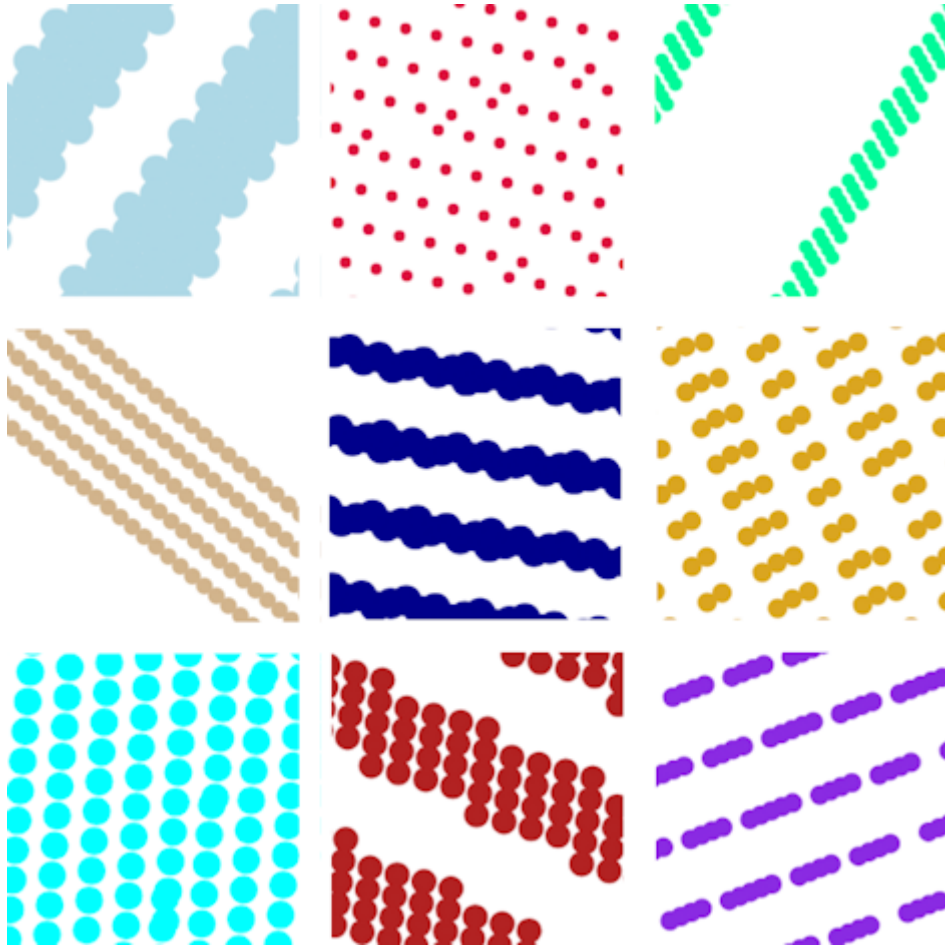
Challenge No. 122

for Logo users

Can you write a procedure that can create all the different designs below?
Just 4 short lines will do it!
Our solution uses these commands:
(DOT), **SETWIDTH**, **RANDOM**, **FD**, **RT**, **PU**, **PD**, **SETPC**, and **REPEAT**.

Our Solution:

```
TO DOTS
  SETW 3 + RANDOM 8
  SETPC RANDOM 138
  RT RANDOM 360
  REPEAT 1200 [PD (DOT) PU FD 250 PD]
END
```

You will get a different result each time you run it!