

“Turtle Tuesday” Logo Challenges

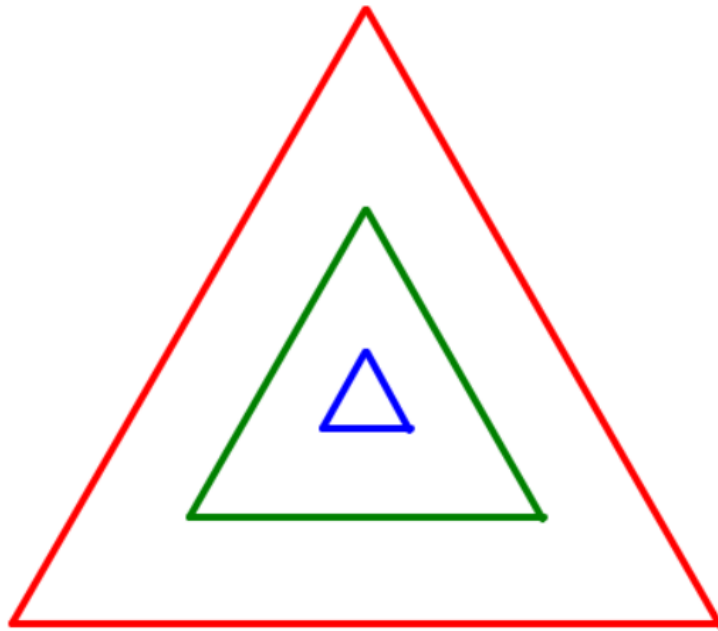
This month’s challenges celebrate special events in March,
or just the number 3 for the third month of the year.

March 4, 2025

Challenge No. 127

For Logo and *Kinderlogo* users

Can you draw three concentric triangles in different colors?



Our Solution:

```
TO 3TRIS
  SETW 4
  PU BK 150 RT 90 FD 200 LT 180 PD
  SETPC "RED
  REPEAT 3 [FD 400 RT 120]
  PU FD 100 RT 90 FD 60 PD LT 90
  SETPC "GREEN
  REPEAT 3 [FD 200 RT 120]
  PU FD 75 RT 90 FD 50 PD LT 90
  SETPC "BLUE
  REPEAT 3 [FD 50 RT 120]
END
```

March 11, 2025

Challenge No. 128

For Logo users

Next Monday is St. Patrick's Day. Can you draw a four-leaf clover?



Our Solution:

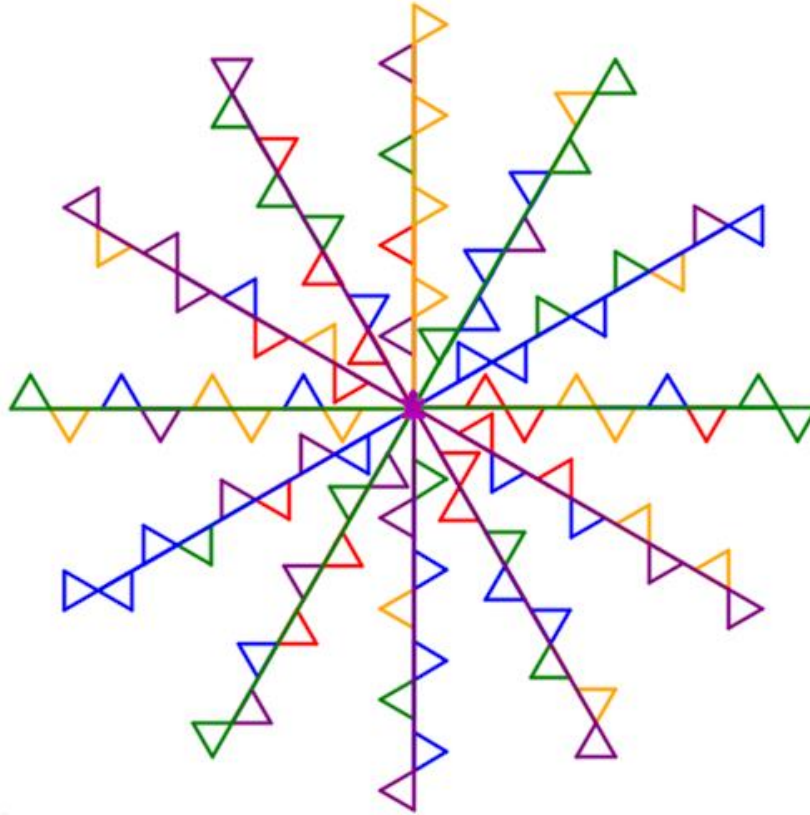
```
TO CLOVER
  SETW 3
  RT 110
  REPEAT 4 [PETAL LT 130]
  PU BK 10 PD
  SETPC "GREEN
  FILL
  PU SETPOS [-37 -40] SETH 0 PD
  REPEAT 6 [BK 20 RT 4]
END
```

```
TO PETAL
  FD 30
  REPEAT 10 [FD 7 RT 18]
  RT 220
  REPEAT 10 [FD 7 RT 18]
  FD 44
END
```

March 18, 2025

Challenge No. 129

For Logo users (and Pro-Bot and *Kinderlogo* users in a smaller design)



Our Solution:

```
TO TRIANGLES
```

```
  SETW 3
```

```
  REPEAT 12 [RAY RT 30]
```

```
END
```

```
TO RAY
```

```
  REPEAT 4 [SETPC PICKCOLOR FD 50 RT 180 BK 20 REPEAT 3 [FD 30 RT 120]
```

```
    RT 180 SETPC PICKCOLOR REPEAT 3 [FD 30 RT 120]]
```

```
  BK 280
```

```
END
```

```
TO PICKCOLOR
```

```
  OUTPUT PICK [BLUE RED ORANGE PURPLE GREEN]
```

```
END
```

March 25, 2025

Challenge No. 130

for Logo, Pro-Bot, InO-Bot, and *Kinderlogo* users

The World Figure Skating Championships are coming up soon!

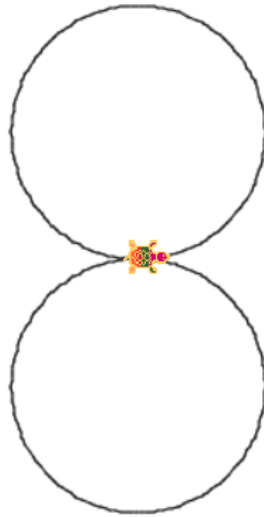
Watching the skaters might give you ideas for coding projects.

First, can you make the turtle draw a figure eight, which skaters had to do until about 1990.

This requirement gave the sport its name.

For a real challenge, have the turtle execute a quad axel, or use two turtles to attempt a throw triple jump! You can use `SETSPEED` or `WAIT` to slow the turtle down.

World Figure Skating Championships!
March 24-30 in Boston, MA



Teach the turtle to skate a figure 8!

Our Solutions:

```
TO FIGURE8
  RT 90
  SETSPEED .6
  REPEAT 30 [FD 15 LT 12]
  REPEAT 30 [FD 15 RT 12]
  FD 10
END
```

```
TO QUADAXEL ; a quad axel is a skating jump with 4-1/2 turns
  PU SETXY [-200 -200] SETH 45 WAIT 1000
  SETSPEED .85
  PD FD 150 PU WAIT 250 FD 50
  SETH 225 WAIT 250 BK 10 SETH 45 WAIT 400 FD 10
  SETH 225 WAIT 250 BK 10 SETH 45 WAIT 400 FD 10
  SETH 225 WAIT 250 BK 10 SETH 45 WAIT 400 FD 10
```

```
SETH 225 WAIT 250 BK 10 SETH 45 WAIT 400 FD 10
SETH 225 WAIT 100
PD
REPEAT 10 [BK 20 RT 9]
END
```

```
TO TRIPLETHROW
LTURTLES 2 HT
RT 45 PU BK 150 PD ST
SETSPEED .6
FD 100
TELL 1 LT 45 FD 10 SETH 180
TELL 0 FD 25
TELL 1 PU BK 50
TELL 1 SETH 45 PU
REPEAT 3 [SETY YCOR + 25 SETSPEED .95 RT 360 SETSPEED 1 SETY YCOR + 25]
SETH 180 PD BK 50
TELL 0 LT 45 FD 225
TELL [0 1] SETSPEED .85 SETH 90 FD 200 TELL 1 FD 3
END
```