

# “Turtle Tuesday” Logo Challenges

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August 6, 2024

## Challenge No. 97

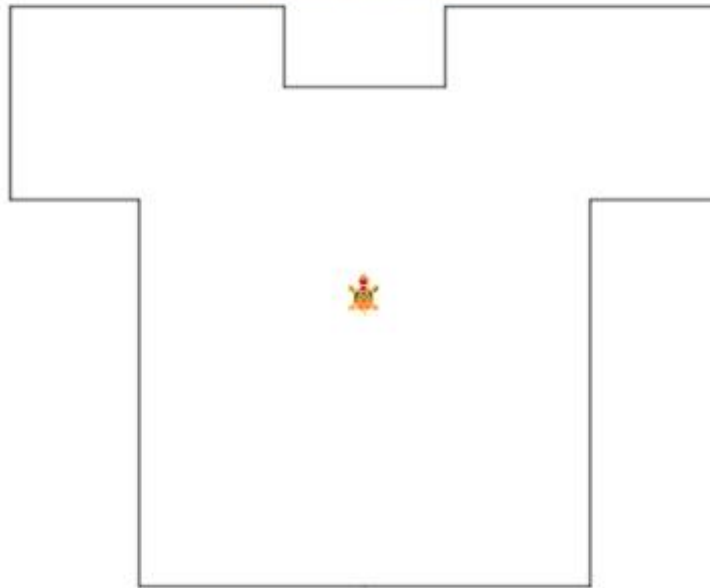
for Logo, Pro-Bot, and InO-Bot users

Chapter 1

Lesson 5



Draw and  
decorate  
a T-shirt.



Can you draw and decorate a T-shirt in Logo?

Our solution:

```
TO SHIRT
  PU BK 180 RT 90 PD
  FD 140 LT 90
  FD 240 RT 90
  FD 80 LT 90
  FD 120 LT 90
  FD 170 LT 90
  FD 50 RT 90
  FD 100 RT 90
  FD 50 LT 90
  FD 170 LT 90
  FD 120 LT 90
  FD 80 RT 90
  FD 240 LT 90
  FD 140
  PU HOME PD
END
```

**August 13, 2024**

## **Challenge No. 98**

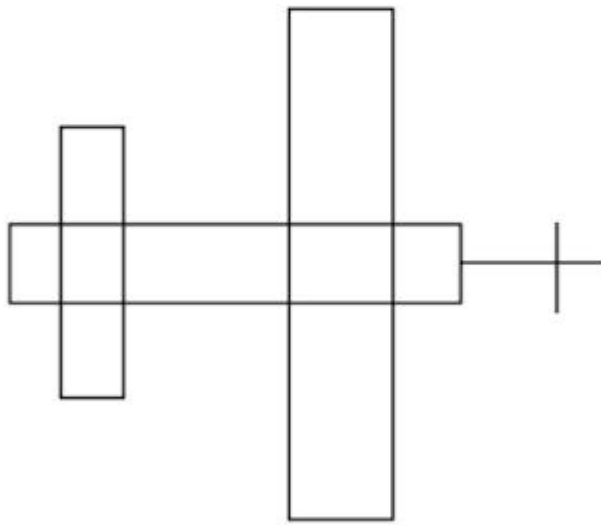
for Logo, Pro-Bot, and InO-Bot users

**Chapter 2**

**Lesson 2**



**Use REPEAT to make rectangles and draw an airplane.**



Can you use REPEAT to draw rectangles and create this airplane?

**Our solution:**

```
TO PLANE
DRAW SETW 2
REPEAT 2 [FD 60 RT 90 FD 300 RT 90]
RT 90 FD 30 LT 90 BK 65
REPEAT 2 [FD 195 RT 90 FD 40 RT 90]
PU FD 65 RT 90 FD 150 LT 90 BK 120 PD
REPEAT 2 [FD 300 RT 90 FD 70 RT 90]
PU FD 120 RT 90 FD 120 LT 90 FD 30 RT 90 PD
FD 90 BK 30 LT 90 FD 30 BK 60 HT
END
```

August 20, 2024

## Challenge No. 99

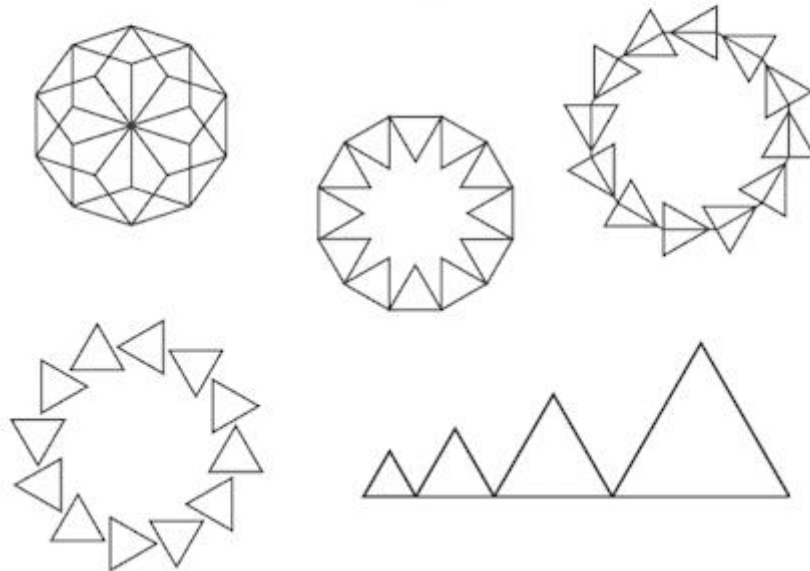
for Logo, Pro-Bot, and InO-Bot users

Chapter 4

Lesson 6



Write procedures to draw designs with polygons. Use the Total Turtle Trip Theorem to figure out angles.



Our solutions:

```
TO PENTAGON
  REPEAT 5 [FD 50 RT 360/5]
END
```

```
TO TURN.PENTAGON
  REPEAT 10 [PENTAGON RT 360/10]
END
```

```
TO TRIANGLE ; used in next 3 procedures
  REPEAT 3 [FD 30 RT 360/3]
END
```

```
TO DESIGN.2
  REPEAT 12 [TRIANGLE FD 30 RT 360/12]
END
```

```
TO DESIGN.3
  REPEAT 12 [FD 30 TRIANGLE RT 360/12]
END
```

```
TO DESIGN.4
  REPEAT 12 [PU FD 30 PD TRIANGLE RT
    360/12]
END
```

```
TO MOUNTAINS
  RT 90
  REPEAT 3 [FD 40 LT 120]
  FD 40
  REPEAT 3 [FD 80 LT 120]
  FD 80
  REPEAT 3 [FD 120 LT 120]
  FD 120
  REPEAT 3 [FD 160 LT 120]
END
```

**August 27, 2024**

## **Challenge No. 100**

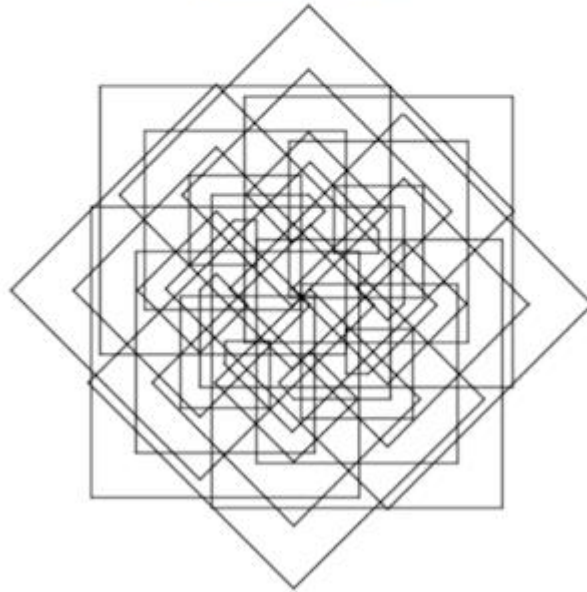
for Logo and InO-Bot users

**Chapter 7**

**Lesson 6**



**Use variables  
and recursion  
to draw complex  
designs.**



**Our solution:**

```
TO DESIGN
  REPEAT 8 [POLYSPI 15 90 FD 65 RT 45]
END
```

```
TO POLYSPI :SIDE :ANGLE
  IF :SIDE > 220 THEN STOP
  FD :SIDE RT :ANGLE
  POLYSPI :SIDE + 15 :ANGLE
END
```

```
DESIGN
```