

“Turtle Tuesday” Logo Challenges

January 2, 2024

Challenge No. 66

for Logo users

Can you write text with the turtle to welcome in the New Year?

Happy New Year!



Welcome 2024!

Use TURTLETEXT to print text in the Graphics window.

Use SETFONT to choose the font and size.

Our solution:

```
TO NEWYEAR
SETFONT "TAHOMA 60 1
PU SETPOS [-250 200] PD
SETPC "BLUE
TT "|HAPPY NEW YEAR!|
PU SETPOS [-200 0] PD
SETPC "RED
TT "|WELCOME 2024!|
SETPC "BLACK
PU SETPOS [0 40] PD
END
```

Use `FONT`s to see available fonts.

January 9, 2024

Challenge No. 67

for Logo users

Can you get the turtle to go on a random walk by flipping a coin?
Heads you turn one way. Tails you turn the other way.
What angle will you choose?



Our solution:

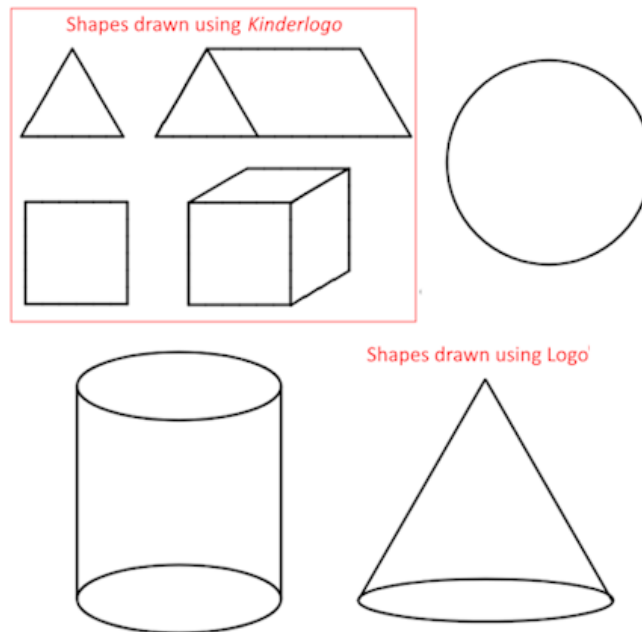
```
TO RANDOMROUTE  
SETW 5  
REPEAT 25 [FD RANDOM 200 SETPC RANDOM 137 IF (RANDOM 2) = 0 [RT 45] [LT 45]]  
END
```

January 16, 2024

Challenge No. 68

for Logo, Kinderlogo, and Pro-Bot users

Can you draw 2- and 3-dimensional shapes?
Here are a triangle, square, circle,
prism, cube, cylinder and cone.



Our solutions:

```
TO TRIANGLE
RT 90
REPEAT 3 [FD 180 LT 120]
END
```

```
TO PRISM
RT 90
REPEAT 3 [FD 180 LT 120]
LT 60 FD 180
RT 60 FD 250
RT 60 FD 180
RT 120 FD 250
END
```

```
TO SQUARE
REPEAT 4 [FD 120 RT 90]
END
```

```
TO CIRCLE
(STAMPOVAL 120 120)
END
```

```
TO CUBE
REPEAT 4 [FD 120 RT 90]
FD 120 RT 60 FD 80 RT 30
FD 120 RT 90 FD 60
FD 60 RT 60 FD 80
RT 120 FD 120
RT 60 FD 80
END
```

```
TO CYLINDER
(STAMPOVAL 120 40)
RT 90 PU BK 120 PD
LT 90 FD 250 RT 90
PU FD 120 PD
(STAMPOVAL 120 40)
PU FD 120 RT 90 PD FD 250
END
```

```
TO PYRAMID
(STAMPOVAL 150 25)
PU LT 90 FD 150
RT 90 PD
RT 30 FD 300
RT 120 FD 300
END
```

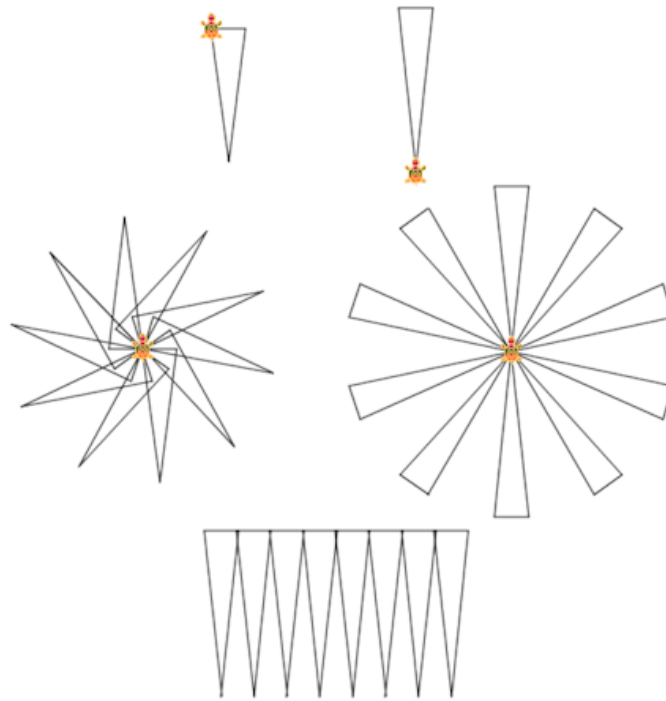
```
TO CONE
(STAMPOVAL 150 25)
PU LT 90 FD 150
RT 90 PD
RT 30 FD 300
RT 120 FD 300
END
```

January 23, 2024

Challenge No. 69

for Logo users

Can you draw two icicles in Logo and then create designs with them?
Notice the different ending positions for these two icicles.



Our solutions:

```
TO ICICLE  
RT 90 FD 30  
RT 97 FD 120  
RT 165.5 FD 120  
RT 7.5  
END
```

```
REPEAT 8 [ICICLE RT 45]
```

```
TO ICICLE2  
LT 6 FD 150 BK 150  
RT 12 FD 150  
LT 96 FD 30 BK 30 RT 96  
BK 150 LT 6  
END
```

```
REPEAT 12 [ICICLE2 RT 30]
```

```
REPEAT 8 [ICICLE2 RT 90 PU FD 30 PD LT 90]
```

January 30, 2024

Challenge No. 70

for Logo users

Can you get Logo to write some wintry haiku poetry?
Haikus have three lines: 5 syllables, 7 syllables, 5 syllables.

TIPS: Use PICK to choose a word from a list.
Use TYPE to keep the next word on the same line.
Use TYPE CHAR 32 to add a space.
Use PRINT [] to end the line or create a blank line.
Use SETTEXTFONT to set the font and size.

Winter
Haikus

IT'S SNOWY AND COLD.
I STILL WANT TO GO SLEDDING.
HOME NOW, I'M HUNGRY.

IT'S ICY AND COLD.
I STILL WANT TO GO SLEDDING.
HOME NOW, I'M ACHY.

Use:
PICK
TYPE
PRINT

IT'S ICY AND COLD.
I STILL WANT TO GO SKATING.
HOME NOW, I'M FREEZING.

IT'S SNOWY AND COLD.
I STILL WANT TO GO SKIING.
HOME NOW, I'M HUNGRY.

IT'S WINDY AND COLD.
I STILL WANT TO GO SKIING.
HOME NOW, I'M ACHY.

IT'S WINDY AND COLD.
I STILL WANT TO GO SKATING.
HOME NOW, I'M HUNGRY.

Our solution:

```
TO POETRY
CLEARTEXT
SETTEXTFONT "ROMAN 24 0
REPEAT 6 [WINTERHAIKU PR []]
END
```

```
TO WINTERHAIKU
TYPE [IT'S] TYPE CHAR 32 TYPE PICK [ICY WINDY SNOWY BITTER]
TYPE CHAR 32 PR [AND COLD.]
TYPE [I STILL WANT TO GO] TYPE CHAR 32
TYPE PICK [SKIING SKATING SLEDDING] PR ".
TYPE [HOME NOW,] TYPE CHAR 32 TYPE [I'M]
TYPE CHAR 32 PR PICK [FREEZING. ACHY. HUNGRY.]
END
```

```
POETRY
```