

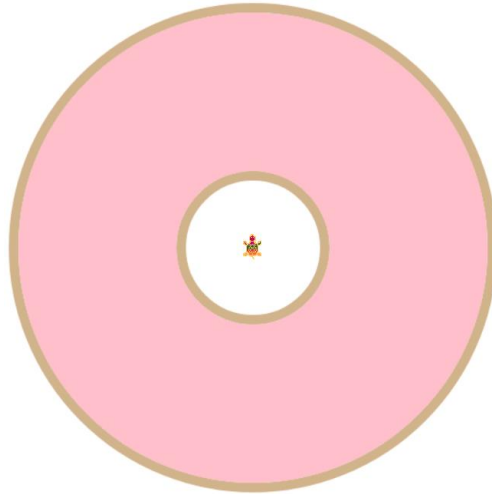
“Turtle Tuesday” Logo Challenges

November 5, 2024

Challenge No. 110

for Logo users

Today is National Donut Day!



Can you draw a donut and then decorate it?
Hint: Use SETWIDTH, SETPC, and STAMPOVAL.

One solution:

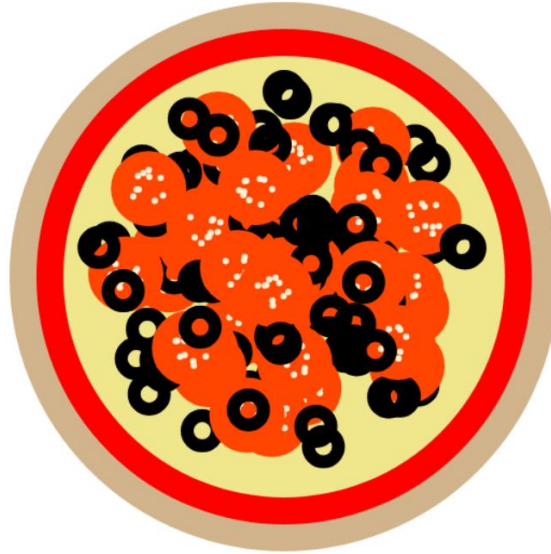
```
TO DONUT
SETPC "TAN
SETWIDTH 10
STAMPOVAL 250 250
STAMPOVAL 75 75
PU FD 150 PD
SETPC "PINK FILL
SETPC "BLACK PU HOME PD
END
```

November 12, 2024

Challenge No. 111

for Logo users

Today is National Pizza with the Works Except Anchovies Day!



Can you draw a pizza with some toppings you like? Hint: Use some of the Donut code from last week.

This page has all the Logo color names and values:

<https://resources.terrapinlogo.com/weblogo/manual/colors>

One solution:

```
TO PIZZA
SETPC "TAN
SETW 10
(STAMPOVAL 250 250 "TRUE)
SETPC "RED
(STAMPOVAL 225 225 "TRUE)
SETPC "KHAKI
(STAMPOVAL 200 200 "TRUE)
PU HOME PD
REPEAT 50 [TOPPINGS]
END
```

```
TO TOPPINGS
OLIVES PU HOME PD
PEPPERONI PU HOME PD
OLIVES PU HOME PD
END
```

```
TO OLIVES
SETW 10
PU RT RANDOM 360 FD RANDOM 175 PD
RINGS
END
```

```
TO RINGS
SETPC "BLACK PD
STAMPOVAL 15 15
STAMPOVAL 13 13
END
```

```
TO PEPPERONI
SETPC "ORANGERED
PU RT RANDOM 360 FD RANDOM 150 PD
(STAMPOVAL 30 30 "TRUE)
SETPC "PAPAYAWHIP SETW 2
MAKE "THISHOME POS
REPEAT 10 [PU RT RANDOM 360 FD 7 +
RANDOM 10 PD (STAMPOVAL 2 2 "TRUE)
PU SETPOS :THISHOME PD ]
END
```

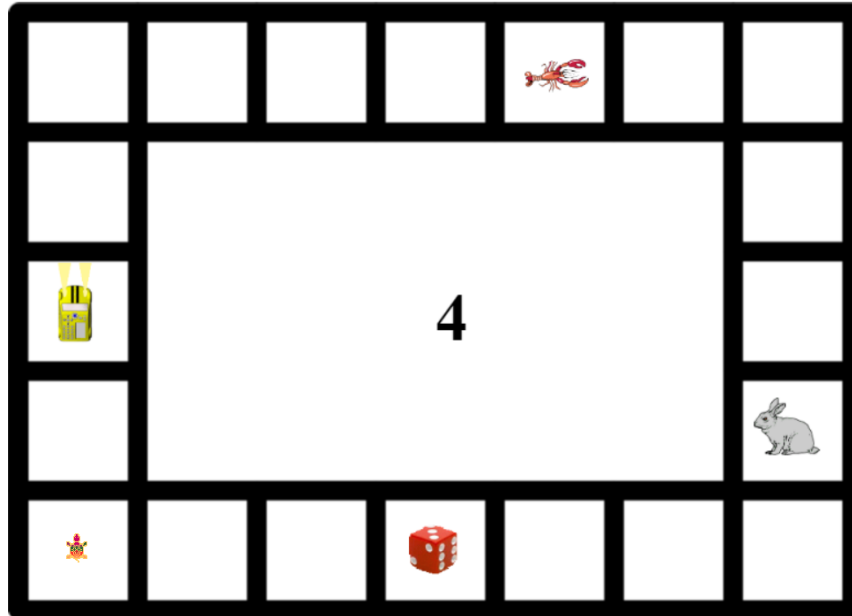
November 19, 2024

Challenge No. 112

Today is National Monopoly Day!

We'll just think it as a day to celebrate any type of board game.

for Logo users



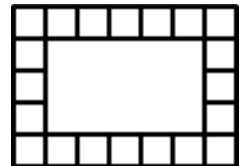
Let's make a board game! Go here to get the image of a blank game board:

<https://resources.terrapiinlogo.com/turtle-tuesdays/img/boardgame.png>

Save this file to your computer and then load it into Logo as a Drawing image.

Invent a game for the turtle. Make a different board if you want.

Stamp images from the Toolbox in some squares to make it more interesting.



Landing on some of these special squares could give you an advantage. Others could set you back.

Roll a die and go that many squares around the board. Land on Pro-Bot and go ahead the same amount. Go back 3 if you land on the lobster. Go ahead 2 if you land on the rabbit. Roll again if you land on the die.

For an extra challenge use a different turtle to print the result of rolling a die using TT and RANDOM 6.

Our solution:

```
TO START
TELL 0 PU
SETPOS [-325 -215]
TELL 1 ROLLDIE
TELL 0 PU
END
```

```
TO ROLLDIE
TELL 1
SETPC "WHITE
PU FD 40 PD IF NAME? "NUM THEN
TT :NUM
SETPC "BLACK PD
SETFONT "TIMES 60 1
MAKE "NUM RANDOM 6
TT :NUM
PU BK 40
TELL 0
END
```

November 26, 2024

Challenge No. 113

for Logo users

Tomorrow (the day before Thanksgiving) is National Tie on an Apron Day!



Let's get ready to cook!
Can you draw an apron in Logo and then decorate it?

Our solution:

```
TO APRON                                ; APRON STRINGS
SETPC "RED SETW 2                        SETW 4
PU SETPOS [-150 -150] PD                 FD 140
FD 140 RT 90                             LT 110
REPEAT 10 [LT 8 FD 10]                   REPEAT 25 [LT 5 FD 10]
LT 10                                     PU SETPOS [57 -150] PD SETH 0
SETW 5                                    FD 140
FD 60                                     RT 110
RT 25                                    REPEAT 25 [RT 5 FD 10]
REPEAT 10 [RT 11 FD 9]                   ; FINISH
RT 45                                    PU HOME PD FILL
FD 62                                    END
SETW 2
RT 90 FD 75 BK 75 LT 90
REPEAT 10 [LT 8 FD 10]
RT 80
FD 142
RT 90 FD 205
RT 90
```