

“Turtle Tuesday” Logo Challenges

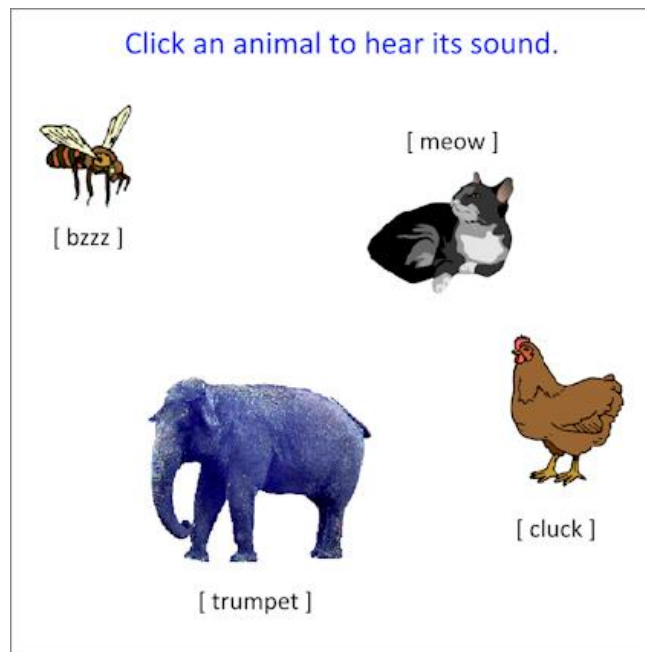
May 7, 2024

Challenge No. 84

for Logo users

Can you turn a few turtles into animals that each make their sound when you click them?

To see a list of all available sounds, type: (DIR "~HOME/SOUNDS)



Our solution:

```
TELL 0 SETSHAPE "~HOME/TOOLBOX/ANIMALS/ELEPHANT.PNG
PU SETXY [0 -100] SETH 0 ST
PPROP 0 "RUN [ASK 0 [PLAY "~HOME/SOUNDS/ELEPHANT REPEAT 20 [SETX XCOR - 2 WAIT
100]]]
```

```
TELL 1 SETSHAPE "~HOME/TOOLBOX/ANIMALS/BEE.PNG
PU SETXY [-175 150] ST SETH 0
PPROP 1 "RUN [ASK 1 [PLAY "~HOME/SOUNDS/WASP REPEAT 5 [SETX XCOR + 3 WAIT 50
SETH HEADING + 5 WAIT 50 SETX XCOR + 3 WAIT 50 SETH HEADING - 5 WAIT 50]]]
```

```
TELL 2 SETSHAPE "~HOME/TOOLBOX/ANIMALS/CAT2.PNG
PU SETXY [175 125] SETTS .75 SETH 0 ST
PPROP 2 "RUN [ASK 2 [PLAY "~HOME/SOUNDS/MEOW SETH HEADING - 5 WAIT 100 SETH
HEADING + 5]]]
```

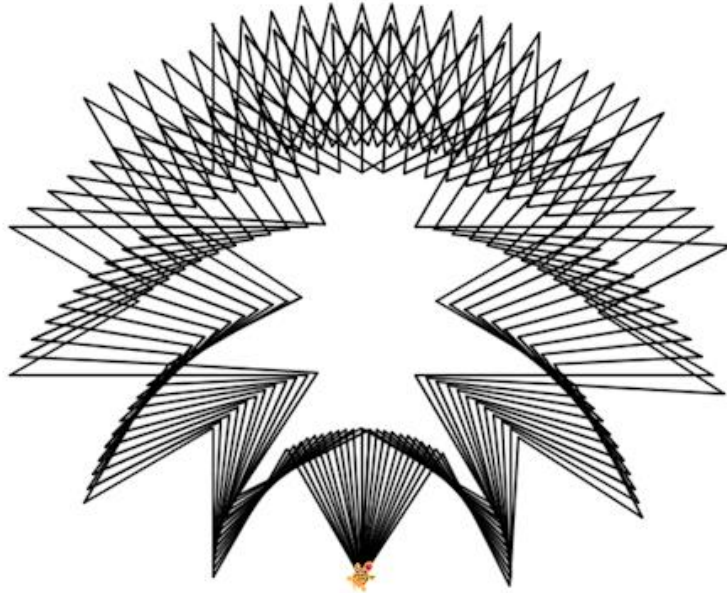
```
TELL 3 SETSHAPE "~HOME/TOOLBOX/BIRDS/HEN.PNG
PU SETXY [300 -50] SETTS .75 SETH 0 ST
PPROP 3 "RUN [ASK 3 [PLAY "~HOME/SOUNDS/CHICKEN PU SETY YCOR + 20 WAIT 175
SETY YCOR - 20]]]
```

May 14, 2024

Challenge No. 85

for Logo users

This is very similar to the April 2, 2024, challenge.
Just add one more REPEAT!



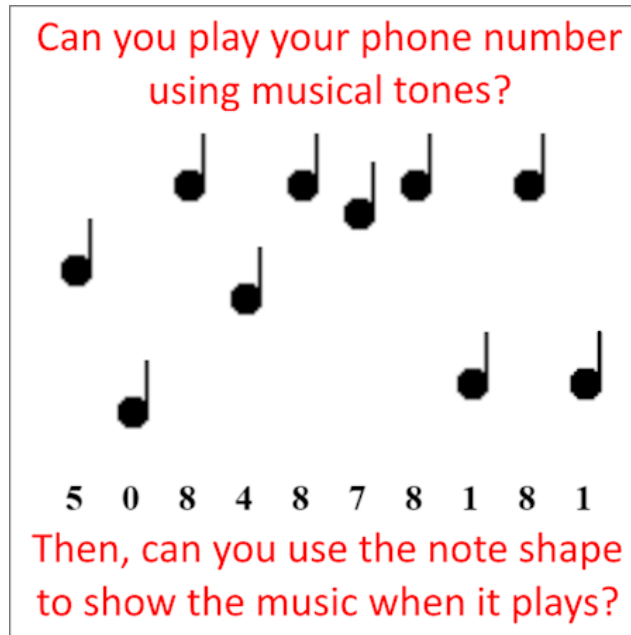
Our solution:

```
REPEAT 12 [REPEAT 12 [FD 120 LT 60 BK 120 RT 30] RT 3]
```

May 21, 2024

Challenge No. 86

for Logo users



Our solution:

```
TO SETUP
DRAW HT
SETSHAPE "~HOME/TOOLBOX/MUSIC/NOTE4.PNG
SETTS 3
ASK 2 [SETX XCOR - 10]
PHONE [5 0 8 4 8 7 8 1 8 1]
END

TO PHONE :LIST
IF EMPTY? :LIST [STOP]
MAKE "THISNOTE FINDNOTE FIRST :LIST
PU SETXY LIST (XCOR + 50) (25 * FIRST :LIST)
ST
PLAY (LIST :THISNOTE)
STAMP
ASK 2 [PU SETXY LIST (XCOR + 50) -50 PD]
ASK 2 [SETFONT "TIMES 32 1 TURTLETEXT FIRST :LIST]
WAIT 250
PHONE BF :LIST
END

TO FINDNOTE :NUMBER
OUTPUT ITEM (:NUMBER + 1) [C D E F G A B C5 D5 E5]
END

SETUP
```

Interactive version:

```
TO PLAY.MY.NUMBER
PR [WHAT IS YOUR PHONE
NUMBER? TYPE THE DIGITS
AND PRESS <ENTER>.]
MAKE "MYNUMBER READWORD
PHONE :MYNUMBER
END

TO PHONE :STRING
IF EMPTY? :STRING [STOP]
MAKE "THISNOTE FINDNOTE
FIRST :STRING
PLAY (LIST :THISNOTE)
WAIT 250
PHONE BF :STRING
END

TO FINDNOTE :NUMBER
OUTPUT ITEM (:NUMBER + 1)
[C D E F G A B C5 D5 E5]
END

PLAY.MY.NUMBER
```

May 28, 2024

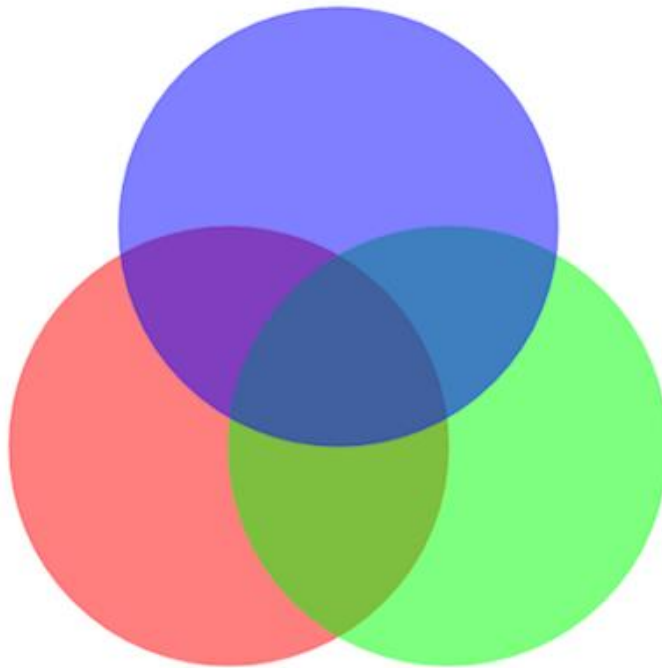
Challenge No. 87

for Logo users

Can you create overlapping circles that look like the ones below?

Tip: When you set the pencolor, use a fourth input (for the alpha channel) that is less than 1, as in this example.

```
SETPC [255 0 0 .5]
```



Our solutions (both programs have the same result):

```
PU SETX -75 PD
SETPC [255 0 0 0.5]
(STAMPOVAL 150 150 "TRUE)
PU SETX 75 PD
SETPC [0 255 0 0.5]
(STAMPOVAL 150 150 "TRUE)
PU SETXY [0 150] PD
SETPC [0 0 255 0.5]
(STAMPOVAL 150 150 "TRUE)
HT
```

```
SETALPHA .5
PU SETX -75 PD
SETPC "RED
(STAMPOVAL 150 150 "TRUE)
PU SETX 75 PD
SETPC "LIME
(STAMPOVAL 150 150 "TRUE)
PU SETXY [0 150] PD
SETPC "BLUE
(STAMPOVAL 150 150 "TRUE)
HT
```