

Lesson 5: Turtle Shapes

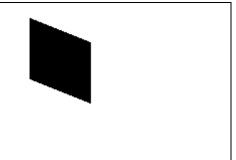
Summary:

Code Instruction	What it does
1	Set turtle costume as a small arrow shape
t=turtle.Turtle()	>
2	Set turtle costume as a small arrow shape
t=turtle.Turtle('classic')	>
or	·
t=turtle.Turtle()	
t.shape('classic')	
3	Set turtle costume as a turtle shape
t=turtle.Turtle('turtle')	
or	344.
t=turtle.Turtle()	,
t.shape('turtle')	
4	Set turtle costume as a circle shape
t=turtle.Turtle('circle')	
or	
t=turtle.Turtle()	
t.shape('circle')	
5	Set turtle costume as a square shape
t=turtle.Turtle('square')	
or	
t=turtle.Turtle()	
t.shape('square')	

Set turtle costume as a triangle shape
Set turtle costume as an arrow shape
Set the size value of the turtle shape
Set width value=value1 and length value=value2
Set width value=value1, length value=value2 and value3 determines the width of the shape's outline
Distorts the image shape, value should be between -1 and 1

Example

t.shape('square')
t.shapesize(3)
t.shearfactor(0.4)



Keep in mind!

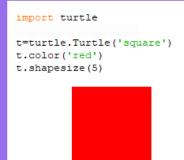
With free of charge Trinket software:

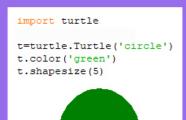
Options 2-7 of Summary work only with two lines

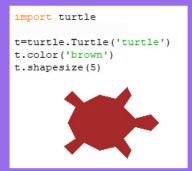
Options 8, 9, 10, 11 work only with Pygame Trinket option, which costs \$3 (USA) per month. In this case at the end of the program you have to add the following line

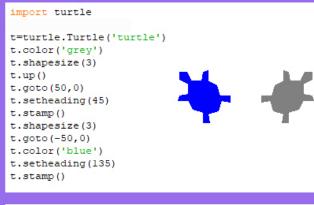
input()

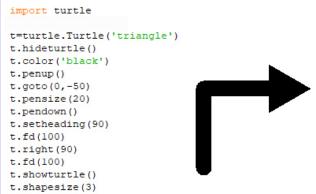
Python + Math Code Output for Kids









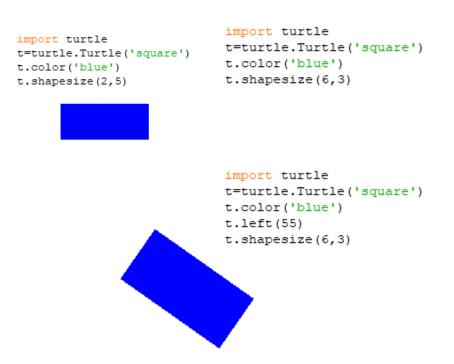


import turtle t=turtle.Turtle('square') t.color('grev') t.shapesize(3) t.up() t.forward(50) t.stamp() t.fd(50) t.color('blue') t.stamp() t.fd(50) t.color('yellow') t.stamp() t.fd(50) t.color('violet') t.stamp()

LESSON 5

To see examples, images, and challenges www.python.kidsgo.ca

1. Example #1 (rectangle with square shape)



2. Example #2 (Draw snowflake).

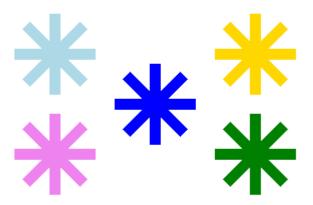
t.stamp()
t.right(45)

import turtle

```
t=turtle.Turtle('square')
t.color('blue')
t.shapesize(6,1)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
import turtle
t=turtle.Turtle('circle')
t.color('blue')
t.shapesize(6,1)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
```

3. Example #3 (Snowflakes)

```
import turtle
t=turtle.Turtle('square')
t.up()
t.color('blue')
t.shapesize(4,0.5)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
t.goto(100,50)
t.color('gold')
t.setheading(0)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
t.goto(-100,50)
t.color('lightblue')
t.setheading(0)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
t.goto(-100,-50)
t.color('violet')
t.setheading(0)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
t.goto(100,-50)
t.color('green')
t.setheading(0)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
t.right(45)
t.stamp()
```



4. Example #4 (Nice Face)

```
import turtle
t=turtle.Turtle()
t.hideturtle()
t.color('orange','orange')
t.begin fill()
t.circle(200)
t.end_fill()
#Mouth and Eyes
t=turtle.Turtle('triangle')
t.penup()
t.goto(-70,130)
t.right(90)
t.color('white')
t.shapesize(4)
t.stamp()
t.goto(-10,130)
t.stamp()
t.goto(50,130)
t.stamp()
t.goto(50,280)
t.left(180)
t.stamp()
t.goto(-50,280)
t.stamp()
#Hat
t=turtle.Turtle('square')
t.color('black')
t.penup()
t.goto(0,400)
t.shapesize(3,12)
```



Challenges: write codes to create the following geometry shapes with circle code:

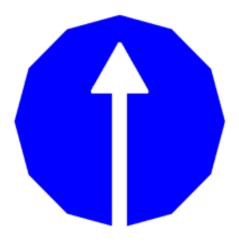
1. Expected output



2. Expected output



3. Expected output



4. Expected output (Choose colour black and grey)



5. Expected output



6. Expected output

