

# 🐢 Python Turtle Syntax 🐢

# To use the turtle library,

import turtle

## Instantiate a Turtle object

The object's name is pat.

pat = turtle.Turtle()

#### Move

Move forward 100 steps: turtle.forward(100)

Turn left 120 degrees:

turtle.left(120)

Send your turtle back to its starting-point (useful if it has disappeared off-screen).

Home x, y coordinates are (0, 0)

turtle.home()

Get the turtle's current location (x, y).

turtle.pos()

## Pen control

Pull the pen down – drawing when moving. turtle.pendown()

Pull the pen up – no drawing when moving. turtle.penup()

Set the line thickness. The example below sets the line thickness to 10.

turtle.pensize(10)

#### Color control

Set the pen color.

turtle.pencolor(\*args)

turtle.pencolor("red")
turtle.pencolor("#33cc8c")

Set color mode to use R, G, B, color values (0 to 255) colormode (255)

turtle.pencolor(r, g, b)

Set fill color:

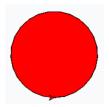
turtle.fillcolor(\*args)

Set pen color and fill color at once:

turtle.color(\*args)
turtle.color("red", "green")

Filling in shape:

turtle.color("black", "red")
turtle.begin\_fill()
turtle.circle(80)
turtle.end\_fill()



Write text:

turtle.write(arg, move=False,
align='left', font=('Arial', 8,
'normal'))

turtle.write("Hi there!
",font=('Arial', 20))

▶Hi there!

## Shape

Set the turtle's shape - "arrow", "turtle", "circle",
"square", "triangle", "classic"
turtle.shape("turtle")

### **Using Events**

Have the turtle turn left when the left arrow key is pressed. Get screen and listen for events.

```
screen = turtle.getscreen()
def turn_left():
    pat.left(90)
```

screen.onkey(turn\_left, "Left")
screen.listen()