Python Turtle

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30 Minutes

Python Turtle is a beginner-friendly library for drawing graphics. In this tutorial, we will explore basic Turtle commands with commented code examples.

NOTE: Get creative with Turtle. Use different colors, line thickness, etc. Experiment and have fun!

Tutorial 1: Draw a Square and a Circle

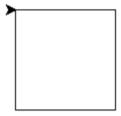
Create a Python file named **square_circle_turtle.py**

In this example, we import the Turtle module, create a Turtle object, and use a loop to draw a square.

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- forward() moves the Turtle forward
- right() turns it right by the specified angle.

Example run:

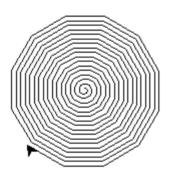


Tutorial 2: Spiral Turtle

```
import turtle
# Create a Turtle object
t = turtle.Turtle()
# Set the speed of the turtle
t.speed(0) # 0 is the fastest speed
# Set the initial angle and length
angle = 30
length = 1
# Draw the spiral
# Adjust the number of iterations for the desired length
for _ in range(200):
    t.forward(length)
    t.right(angle)
    # Adjust the increment for a tighter or looser spiral
    length += 0.2
# Close the drawing window on click
turtle.exitonclick()
```

Example run:

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Assignment 1: Creative Drawing

- Draw a circle using the circle() method with a specified radius.
- Change the pen color to red using **pencolor()** and draw a red triangle.
- Draw anything you wish.

Assignment Submission

- 1. Attach the program files.
- 2. Attach screenshots showing the successful operation of the program.
- 3. Submit in Blackboard.

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