Turtle graphics in Python:

Basic Setup:

To use Turtle, you need to import it first:

import turtle

Then, you create a turtle object which you can use to control the drawing.

t = turtle.Turtle()

This t object represents the turtle that will move around and draw on the screen.

Basic Commands:

1. Movement:

- \circ forward(x) or fd(x): Moves the turtle forward by x units.
- \circ backward(x) or bk(x): Moves the turtle backward by x units.
- left(angle): Turns the turtle left by the specified angle (in degrees).
- o right(angle): Turns the turtle right by the specified angle.

2. Drawing:

- penup(): Lifts the pen, so the turtle moves without drawing.
- o pendown(): Lowers the pen, so the turtle starts drawing again.

3. Colors:

- o color(color): Changes the turtle's pen color.
- bgcolor(color): Changes the background color of the window.

4. Speed:

 speed(speed): Sets the turtle's speed. It can be a number from 0 (fastest) to 10 (slowest), or fastest, fast, normal, and slowest.

5. Other useful methods:

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o circle(radius): Draws a circle with the given radius.
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- \circ goto(x, y): Moves the turtle to the specific coordinates (x, y).
- setpos(x, y): Moves the turtle to the coordinates (x, y) without drawing.
- o clear(): Clears the drawing area.

Example:

Here's a simple example of how to draw a square using Turtle:

import turtle

turtle.done()

```
# Set up the turtle
t = turtle.Turtle()

# Loop to draw a square
for _ in range(4):
    t.forward(100) # Move forward by 100 units
    t.left(90) # Turn left by 90 degrees

# Keep the window open
```

This code will draw a square with side length 100 units.					
Example 2: Drawing a Circle					
import turtle					
# Set up the turtle					
t = turtle.Turtle()					
# Draw a circle with radius 100					
t.circle(100)					
# Keep the window open					
turtle.done()					
Turtle Screen:					
You can also customize the screen/window using the Screen() class.					
import turtle					
# Create a screen object					
screen = turtle.Screen()					

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# Set the background color of the window
screen.bgcolor("lightblue")
# Set the window title
screen.title("Turtle Graphics Example")
# Create a turtle object
t = turtle.Turtle()
# Draw something
t.forward(100)
# Keep the window open
turtle.done()
```

Event Handling:

Turtle also supports event-driven programming, where you can bind actions to mouse clicks, key presses, etc.

For example, using a click event:

import turtle

```
# Function to move the turtle to the mouse click position
def move_turtle(x, y):
  t.penup()
  t.goto(x, y)
  t.pendown()
# Set up the turtle
t = turtle.Turtle()
# Bind the click event
turtle.onscreenclick(move_turtle)
# Keep the window open
turtle.done()
Additional Tips:
Turtle Reset: If you need to clear the screen and start fresh, you can use
reset():
t.reset()
Exit Turtle Graphics: You can use exitonclick() to close the Turtle graphics
window when clicked:
turtle.exitonclick()
```