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Turtle Library



What is Turtle

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- Turtle is a python library that allows you to use drawing style graphics
- Animations
- It is important to remember that using this drawing tool is like drawing on a graph, keep in mind your x and y axis and negative and positive quadrants

Basic Turtle Functions

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- Type in from turtle import *
 - This will give you some ease vs using the import statement “import turtle”
- Create a drawing object. You call functions on this object
 - mypen = Turtle()
- mypen.forward(10) will move your pen 10 steps, you can change the number to show how far you want to draw
 - Notice you call the name of your Turtle() (mypen) on the function “forward”

Basic Turtle Functions

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- `mypen.left(45)` and `mypen.right(45)` will move your drawing tool 45 degrees in a positive direction (up)
- `mypen.backward(12)` works the opposite of `.forwards(amount)`
- `penup()` will lift the drawing tool (you defined as `mypen`) from the page so it will not draw
- `pendown()` will put the drawing tool back down on the page so it can draw again

Colors in Turtle

- `mypen.color("red")` will change the line you draw from back to whatever color you specify as a STRING in the parenthesis
 - Here is a list of all possible colors
<https://trinket.io/docs/colors>
- `begin_fill()` and `end_fill()` remember the starting and ending coordinates of your pen and then fill it with the `.fillcolor("red")` that you specify!
- You can also change the shape("turtle") of your drawing tool like we will do later in a racing game!

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Learn how to make a simple racing game

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- Link to how to do a simple Turtle racing game
<https://projects.raspberrypi.org/en/projects/turtle-race>
- Link to the finished code
<https://trinket.io/python/6751df0f24>


Learn how to draw a spiral



- Code for the spiral project
<https://trinket.io/python/011c425ado>
- Another spiral that is filled in
<https://trinket.io/python/20a4d30e87>

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Official Python Documentation

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- Here is the official documentation for the python turtle library. This will be helpful in your projects for if you want to add anything extra to your code

<https://docs.python.org/3.3/library/turtle.html>

Notes

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- Here is where you should write turtle code
<https://trinket.io/python>
 - Either save the link or copy and paste into a google doc
- Here is where you should write Tkinter gui code
<https://trinket.io/features/pygame>

You will need to delete code from the editor

Here is the Code !!!!!



<https://github.com/kt3a/GWCPython>

Copy and paste to run!!