

What is Turtle

 Turtle is a python library that allows you to use drawing style graphics

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• 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

- Type in from turtle import *
 - This will give you some ease vs using the import statement "import turtle"

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- Create a drawing object. You call functions on this object
 - o mypen = Turtle()

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- 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"

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Basic Turtle Functions

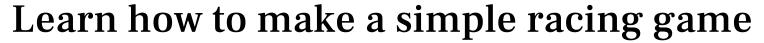
- mypen.left(45) and mypen.right(45) will move your drawing tool 45 degrees in a positive direction (up)
- mypen.backward(12) works the opposite of .forwards(amount)

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

https://trinket.io/python/6751df0f24

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Learn how to draw a spiral

Code for the spiral project
 https://trinket.io/python/011c425ado

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 Another spiral that is filled in <u>https://trinket.io/python/20a4d30e87</u>

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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

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Notes

Here is where you should write turtle code https://trinket.io/python

- Either save the link or copy and paste into a google doc

https://trinket.io/features/pygame

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You will need to delete code from the editor

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