**Useful Links and Information for Python OOP Course**

**For Parents & Kids**

The Harvard CS50x introductory course is a great accessible (and free!) course which is a really good broad introduction to computer science tying together Python with Scratch and the coding language C.

<https://cs50.harvard.edu/x/2024>

The opening lecture (highly recommended!)

<https://cs50.harvard.edu/x/2024/weeks/0/>

**Lesson 1**

Turing Lab GCSE Revision Work

<https://amazon.turinglab.co.uk/courses/626282727c3541001c214a6a>

**Lesson 2**

I recommend watching these short YouTube videos to help you understand a bit more about the PyCharm IDE and version control and Git:

<https://www.youtube.com/watch?v=2ReR1YJrNOM> a very quick overview of version control

<https://www.youtube.com/watch?v=8Dd7KRpKeaE> a fun a super-easy guide to using GitHub desktop

<https://www.youtube.com/watch?v=HHcZbXsZtm0> a short intro to using the PyCharm IDE (code editor)

<https://www.youtube.com/watch?v=twTESNFc1ww> a bonus video!

**Lesson 3**

Location of Python Arcade Tutorial documentation:

[https://learn.arcade.academy](https://learn.arcade.academy/en/latest/index.html)

Location of the Python Arcade Tutorial GitHub repository:

<https://github.com/pythonarcade/learn-arcade-work>

**Lesson 4**

All the Api documentation for the Python Arcade module can be found here:

<https://api.arcade.academy/en/2.6.17/>

You can find an index with descriptions of all Arcade functions and also some game tutorials as well!

This YouTube video goes over how to draw shapes on screen using Arcade:

<https://youtu.be/wYofTQaIIlQ>

This YouTube video covers the basics of classes and objects:

<https://youtu.be/7BfXwcapLFQ>

A bonus video (for fun!):

<https://youtu.be/pEfrdAtAmqk>

**Lesson 5**

A video teaching inheritance of Classes:

<https://learn.arcade.academy/en/latest/chapters/17_class_methods/class_methods.html>