**QAPYTH3 changes 2.1 -> 2.2**

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**Setup changes**

Python 3.6.0

Installed PyCharm

Linux and Windows

Linux required update to Java 1.8

**Documentation changes**

Course outline have been altered to reflect changes

**00 Course Introduction**

**Chapter 1 Introduction to Python 3**

**Chapter 2 Fundamental Variables**

Python operators

Added @

Added await

Python reserved words

Added async and await

**Chapter 3 Flow Control**

**Chapter 04 String Handling**

Quotes

Remove bullet point saying Python does not have interpolation

Literal string interpolation

2 new slides (3.6)

String formatting and bytes objects

New slide after the summary

**Exercises**

Changed solutions for questions 2 & 3 to use interpolation

**Chapter 5 Collections**

Dictionary methods

Added notes concerning key order in 3.6

**Chapter 6 Regular Expressions**

Regular Expression objects

Added mention of the re.error exception

Anchors

Simplified example by using interpolation

Flags

RE.ASCII and RE.LOCALE moved to the notes (deprecated from 3.5 and only supported for bytes objects from 3.6)

Added a simple modifier span example (3.6)

**Chapter 7 - Data Storage and File Handling**

**Chapter 8 Functions**

Returning objects from a function

Simplified example by using interpolation

**Chapter 9 Advanced Collections**

Was erroneously named "Advanced Functions"

Generator objects and next

Moved to after the summary

New exercise based on the frange generator

**Chapter 10 Modules and Packages**

What are modules?

Rewrote notes concerning .pyo files. See PEP 488

**Chapter 11 - Classes and OOP**

New step-by-step exercises using a file class (based on the File class used previously)

New exercise based on the frange generator

**Chapter 12 Error and Exception handling**

Python3 Exception hierarchy

Updated to 3.6

**Exercises**

Changed initial start\_time to None

**Chapter 13 Multitasking**

Using the subprocess module

Altered to include subprocess.run

subprocess.run

New slide

The subprocess.Popen class parameters

Several defaults have changed - updated.

Running a basic process

Capturing the output

Passing data into stdin

Slides changed to use subprocess.run

Original slides using Popen moved to after the summary

**Exercise Guide**

Updated exercise 1 (and EX13.1.py) to use subprocess.run

**Chapter 14 The Python Standard Library**

os.scandir example

New slide

**Chapter 15 The Way Ahead**