**Pre-requisites:**

\* If you do not have Python set up locally, make a replit account (please do this in advance of the session) [https://replit.com/](https://protect-eu.mimecast.com/s/2-WxCV5O8u9Zy4NcGwA0y?domain=replit.com/)

\* Skim this cheatsheet [https://www.pythoncheatsheet.org/cheatsheet/basics](https://protect-eu.mimecast.com/s/7Cp5CWw6giG4qpRux0lES?domain=pythoncheatsheet.org) (don't worry, you won't understand it until after the session, but look at it for the experience of feeling confused looking at documentation - it's all part of the process)

\* Use [perplexity.ai](https://protect-eu.mimecast.com/s/ntiFCYQEkcO9l0EFViEGq?domain=perplexity.ai) to find out what the latest version of Python is

**Learning objectives:**

In this 1.5 hour session we will:

\* Create a story generator - your first (very simple) Python script.

\* Learn what a variable and a list is (we will also touch on string data types and what conditionals are).

\* Output words to the terminal display (aka print strings)

\* Briefly discuss Python Libraries and how to import one (called ‘random’)

**Reference code:**

\* [https://replit.com/@sw03737/Adventure-story-generator#main.py](https://protect-eu.mimecast.com/s/KcPjCX7Dju09K6VTDbVuH?domain=replit.com)

OR

exercise.py file

**After the session - ideas for next steps:**

\* What can you do with Python? (1 minute) <https://www.youtube.com/shorts/xnFGXXYhW_I>

\* EASY Take a programming foundations course (2 hours) - I suggest this one <https://www.linkedin.com/learning/programming-foundations-fundamentals-3/>

\* MEDIUM Create an interface for your generator (2-4 hours) e.g with the Tkinter library (see youtube tutorials e.g.  <https://www.youtube.com/@PythonSimplified>)

\* MEDIUM Learn to call JSON data from APIs (25 minutes) <https://www.youtube.com/watch?v=tb8gHvYlCFs>

\* MEDIUM/HARD If you want to work more with words? Learn about Natural Language Processing course on Linkedin

\* MEDIUM/HARD Want to manipulate contents in files? Working with files courses on Linkedin Learning

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\* MEDIUM/HARD Want to create graphs and charts? Learn about data visualisation e.g. pandas, numpy, matplotlib, seaborn (these are Python libraries)

\* CHALLENGING Learn Object Orientated Code to improve the structure of your code using objects (see Linkedin Learning e.g. Python Object-Oriented Programming by Joe Marini)

\* CHALLENGING Learn about data structures

\* Something else? Search "Python projects for beginners" on youtube or take a Linkedin Learning course and create your own script.

\* Hated Python? Watch this video to learn more about different programming languages and what they can do (10 minutes) <https://www.youtube.com/watch?v=2lVDktWK-pc>

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