

21 February 2022 - 4 March 2022

Instructor: Lucy Havens

Course Structure

Anticipate maximum 6 hours each week

- 2 course meetings per week, 1 hour each
 - 10:00 11:00 AM BST Mondays (21/2, 28/2)
 - 10:00 11:00 AM BST Fridays (25/2, 4/3)
- 3 assignments total, about 1.5 hours each
- Office hours on Wednesdays

Teams for class, office hours, questions, comments, files

Course Topics: Week 1

Day 1:

Thinking Like a Computer

Where to Find Help

Programming in Python: data types, variables, operators, functions

Day 2:

Programming in Python: conditionals, loops, error handling, functions vs. methods, modules, recursion

Course Topics: Week 2

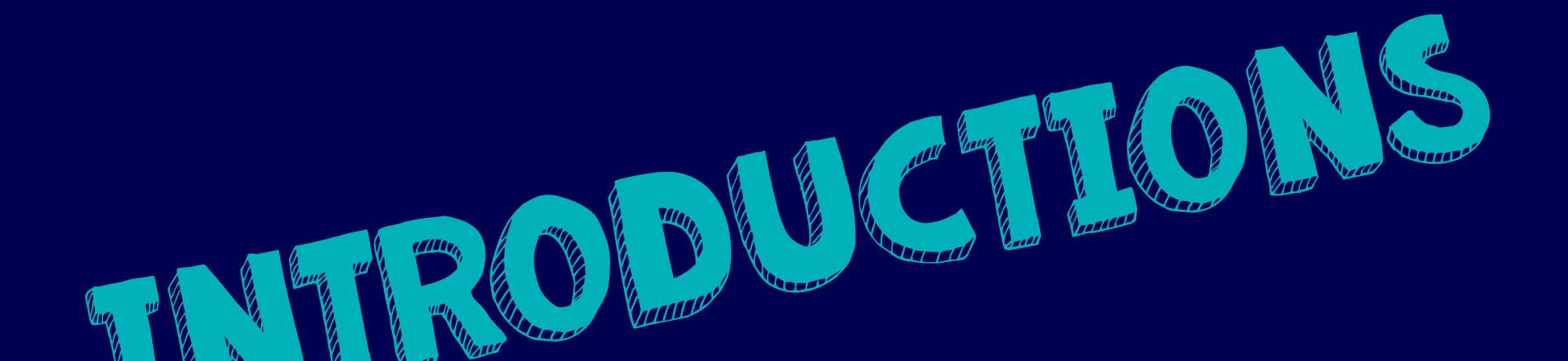
Day 3:

Programming in Python: more data types, more functions, measuring equivalence, determining containment

Day 4:

Code reusability and reproducibility

Efficiency and memory considerations



Name

Have you programmed before? If yes, in what language?

Why would you like to learn Python?

Introductions

- Pursuing a PhD in the School of Informatics' ILCC
- AMSc Design Informatics, B.S. Information Systems
- Taught myself programming and data science skills outside courses using online resources

Please share feedback on the course!

For Participants

- Complete assignments (given today, Friday, and next Monday)
- Ask questions and share work on assignments in class
- Please Note: Course meetings won't be recorded
 - Three strike policy
 - Please let me know in advance if you cannot attend!
- Office hours: questions about assignments, your own projects
 - Chat with me on Teams to schedule

Thinking Like a Computer

Learning to program is like learning a new language

Think about programming, or coding, or writing code, as you would about building with Legos

Most importantly, learn how to ask questions!

Let's play a game...

Software

Python version 3

Jupyter Notebooks - options:

- A. Use Noteable: https://www.ed.ac.uk/information-services/ learning-technology/noteable/accessing-noteable
- B. Use GoogleColab: https://colab.research.google.com
- C. Install to your computer: https://jupyter.org/install

Where To Go For Help

Search online

You can even copy & paste excerpts of code, an error message

Software documentation ("Docs"): https://docs.python.org/3/

Stack Overflow: https://stackoverflow.com
Discussions from this platform often appear in search results

Let's coce.

Assignment

python-basics-1.ipynb

Note 1: you don't need to watch the video, but you can if you'd like

Note 2: you don't need to take the quiz at the end of the Jupyter Notebook (we'll take it together in Friday's class)

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Further Resources

- Noteable User Guide: https://noteable.edina.ac.uk/user_guide/
 #hide_ge_7
- Jupyter Notebooks and Noteable: https://github.com/edina/
 Exemplars 2020 / blob / master / Teaching Docs / Tutorials /
 Using Noteable Beginner.ipynb
- Jupyter Notebooks: https://glam-workbench.github.io/getting-started/
- Python: https://programminghistorian.org/en/lessons/introduction-and-installation



Office hours available on Wednesday

Contact me on Teams to schedule

Next class: Friday (25 February)