

Foundations (Pt. 2)

Changes before 22/23

- ☐ Add Learning Outcomes for each week
- ☐ More focus on code re-use and simplicity.
- ☐ Add 'Module Dialogue' form, e.g. (to be tweaked):
 - Do you understand what is being taught on the module?
 - Do you know how you will be assessed?
 - Can you access the learning resources?

Overview

Important

This week's Learning Outcomes are:

- 1.
- 2.
- 3.

This week we start to move beyond Code Camp. So although you should recognise many of the *parts* that we discuss, you'll see that we start to put them together in a new way.

Preparation

Code Camp

All students should complete/revisit Code Camp Notebooks 8–11.

Note: there is an issue with the GeoJSON tasks in Notebooks 8 and 9. We can discuss in the Class.

Lectures

Come to class prepared to present:

Session	Video	Presentation	Notes
Dictionaries	Video	Slides	Notes
LOLs	Video	Notes	Notes
DOLs to Data	Video	Slides	Notes
Functions	Video	Slides	Notes
Packages	Video	Slides	Notes

Readings

Come to class prepared to present:

- (Etherington 2016) DOI
- (Donoho 2017) DOI
- (Unwin 1980) DOI

Activities

- Padlet: [Collaborative Agenda]
- Complete the short Moodle quiz associated with this week's activities.

Practical



Changes before 22/23

- ☐ Add Learning Outcomes for each week
- ☐ Standardise delivery by TAs where practicals are TA-led (e.g. FSDS): clearer guidance on how to take students through each week.
- ☐ Clearer articulation of difficulty levels/targets for components *within* each week's practicals.
- ☐ Make links between lecture and practical content explicit; ideally trace a question through the whole process (*e.g.* "If I wanted to know if and where blue plaques are clustered in London how would I find out?")

The practical can be downloaded from GitHub.

References

- Donoho, D. 2017. “50 Years of Data Science.” *Journal of Computational and Graphical Statistics* 26 (4):745–66. https://doi.org/10.1007/978-3-642-23430-9_71.
- Etherington, Thomas R. 2016. “Teaching Introductory GIS Programming to Geographers Using an Open Source Python Approach.” *Journal of Geography in Higher Education* 40 (1). Taylor & Francis:117–30.
- Unwin, David. 1980. “Make Your Practicals Open-Ended.” *Journal of Geography in Higher Education* 4 (2). Taylor & Francis:39–42. <https://doi.org/10.1080/03098268008708772>.

