Objects

> ⚠️ **Changes before 22/23**
>
> ☐ Add Learning Outcomes for each week
> ☐ More focus on code re-use and simplicity.

This week deals with 'objects' and 'classes', which is fundamental to mastering the Python programming language: in Python, *everything* is an object, you just didn't need to know it until now. Understanding how classes and objects work is essential to using Python effectively, but it will also make you a better programmer in any language because it will help you to think about how data and code work *together* to achieve your goals.

Lectures

> 💡 **Focus**
>

Video	Markdown for Note-taking
Methods	Notes
Classes	Notes
Design	(Notes
Exceptions	Notes

Readings

- (Cox and Slee 2016) PDF
- (D'Ignazio and Klein 2020, chap. 5) Pre-review URL: *Unicorns, Janitors, Ninjas, Wizards, and Rock Stars*

Objects

Contribution

- Padlet: [Collaborative Agenda]

Quiz!

- Complete the early feedback questionnaire please!

Class

- Reviewing the **Collaborative Agenda**
- Discussion of **Readings**
- **Live Coding**

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.

Cox, M., and T. Slee. 2016. "How Airbnb's Data Hid the Facts in New York City." Inside Airbnb. http://insideairbnb.com/reports/how-airbnbs-data-hid-the-facts-in-new-york-city.pdf.

D'Ignazio, Catherine, and Lauren F. Klein. 2020. *Data Feminism*. MIT Press. https://bookbook.pubpub.org/data-feminism.