


# Objects

 Changes before 22/23

- ☐ Add Learning Outcomes for each week
- ☐ More focus on code re-use and simplicity.

## Overview

 Important

This week's Learning Outcomes are:

- 1.
- 2.
- 3.

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.

## Preparation

### Lectures

Come to class prepared to present:

 Focus

## Objects

| Session    | Video | Presentation | Notes |
|------------|-------|--------------|-------|
| Methods    | Video | Slides       | Notes |
| Classes    | Video | Slides       | Notes |
| Design     | Video | Slides       | Notes |
| Exceptions | Video | Slides       | Notes |

## Readings

Come to class prepared to present:

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

## Activities

- Padlet: [Collaborative Agenda]
- Complete the early feedback questionnaire please!
- Complete the short quiz

## 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

- 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>.

