



Chapter 0 – Teaching and learning arrangements

2025-2026



Learning goals

The student

- dissects data from structured or unstructured (open) data sources;
- devises a method to convert data into a format suitable for further analysis;
- examines data to determine its most defining characteristics;
- concludes and advises based on in-depth analysis.



Classes and lecturers

- Lecturers:
 - Jochen Mariën jochen.marien@thomasmore.be
- Teacher at Thomas More University College since 2009
- Located in Belgium
- Teaching Python, Java, Data Science, Machine Learning



Course evaluation

- Option 1: certificate of attendance
 - You are present during all classes
 - You complete the exercises to the best of your abilities
 - You get a certificate of attendance
- Option 2: Graded project
 - Do a project in a group of maximum 4 people
 - Can be worked on during the classes, but requires additional work outside of these hours
 - Submission through a github repository
 - Results are presented for all students during the final session



Course schedule

- Session 1: 19 February
 - Setting up a working environment
 - Regex and scraping
 - Submission: chosen dataset
- Session 2: 26 February
 - Numpy and matplotlib
 - Submission: Dataset loaded and cleaned
- Session 3: 5 March
 - Pandas
 - Submission: Analysis of dataset and conclusions
- Session 4: 19 March
 - Final presentations of projects



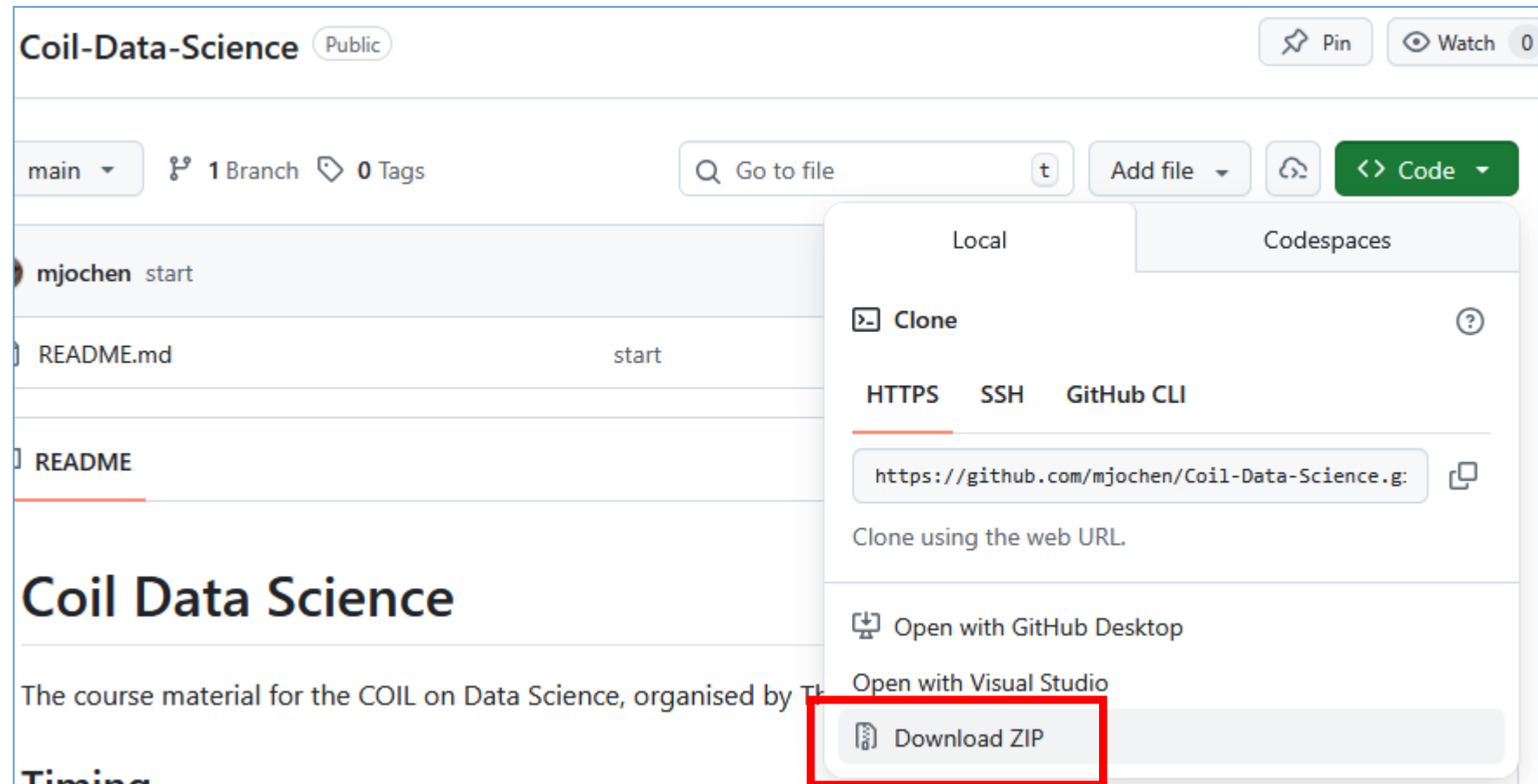
Course material on Github

- Will be updated as we go along!
- Presentations
 - Contain all you need for the exercises and the project
- Exercises
 - Solutions are not published but discussed later on
- Individual project assignment
- E-book
 - <https://jakevdp.github.io/PythonDataScienceHandbook/>
 - Chapters 1 – 4, chapter 5 is interesting but out of scope
 - Not mandatory reading, for support purposes only



Course material on Github

- You can fork the repo
- Or simply download the zip-file
 - It contains all necessary files



AI usage



- In this course, AI usage is permitted
 - You can, and are encouraged to, use chatGPT, gemini, copilot, ...
- But use it correctly!
 - Don't ask for solutions and copy them without reading them
 - Use it as a teaching assistant that you can ask for guidance
 - If the AI generates code that you don't understand, ask him/her/it to explain what is going on
- And always be critical of what you are running