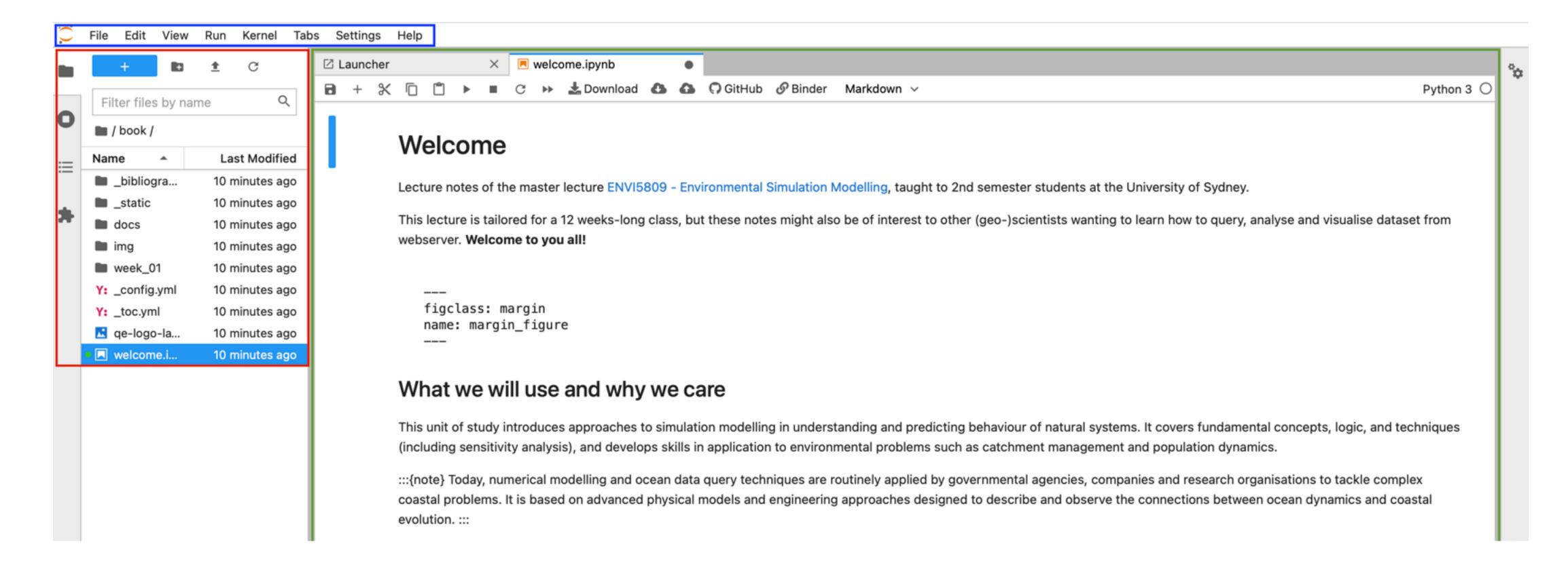
UoS Coding Platform



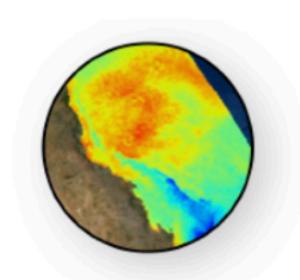
The <u>Jupyter Notebook</u> is an **open-source web application** that allows you to create and share documents that contain **live computer code**, **equations**, **visualisations** and **narrative text**.

If you are new to Jupyter Notebooks, don't be scared! You can learn about them and try them out on the Jupyter website. I also have prepared a tutorial for you in this lecture.



Jupyter Notebooks / Python fundamentals





Environmental Simulation Modelling

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GET STARTED

Interactive notebooks

Managing environments

Jupyter notebook

Python Fundamentals

Python Functions and Classes



Jupyter notebook

This material is adapted from the OGGM-Edu's educational notebooks.

Welcome to this introduction to Jupyter Notebooks! The advantage of notebooks is that they can include explanatory text, code, and plots in the same document.

This makes of notebooks an ideal playground for explaining and learning new things without having to jump between several documents. Thanks to binder, you can run them in your web browser without requiring to install anything!

This document itself is a notebook. It is a simple text file with a .ipynb file path ending. If you opened this notebook via an Binder link, it is opened in a platform which is called JupyterLab. "JupyterLab" is the development environment allowing you to navigate between notebooks (navigation bar on the left), (re-)start them, and much more. Here, we will focus on the notebooks themselves.

First steps

At first sight the notebook looks like a text editor. Below this line, you can see a cell. The default purpose of a cell is to write code:









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First steps

More cell editing

Writing and executing code

Restart or interrupt the kernel

Errors in a cell

Displaying plots with matplotlib

Interactive plots with Bokeh

Formatting your notebook with text, titles and formulas

Download a notebook

Take home points