LSE100 & Digital Skills Lab

A short guide to running Jupyter Notebooks with Binder

Jupyter Notebooks are an amazing platform for working on and presenting data analysis projects interactively. For this series of "AI tasters" we will be using Jupyter Notebooks as a tool to show you how Computer Scientists and Data Analysts build Artificial Intelligence (AI) models in the real world. Binder allows you to run Notebooks from GitHub repositories on your browser without having to install software on your laptop. This is great if you are a beginner.

If you are more advanced and would like to run these projects on your computer, you can download each project's contents easily through GitHub.

Access to Notebooks through Binder

When you click on a Binder link (for example https://mybinder.org/v2/gh/nathalievladis/FunInteractives/master), Binder starts building an environment for the project. You will see the logo, a spinning wheel and the Build Logs (black box) which describes what is happening as the environment is built (see Figure 1).

Depending on traffic, your internet connection and your laptop characteristics this might take a while.

While Binder is loading, you can see a preview of the GitHub repository that contains the Jupyter Notebook and all the elements involved in the project at the bottom of the page.

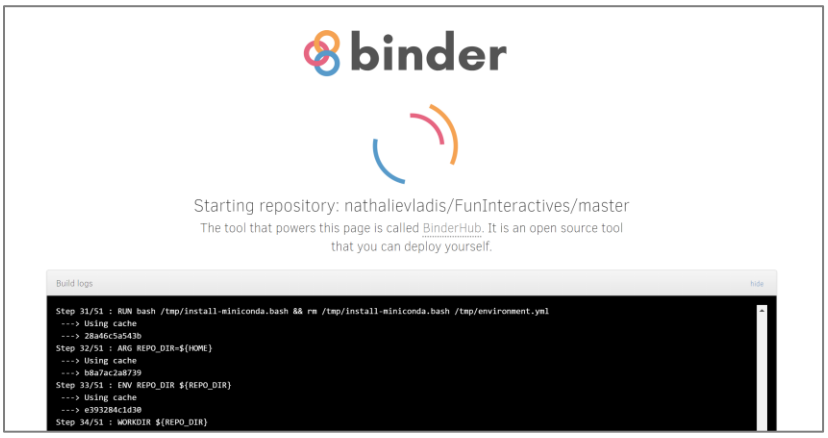


Figure 1: Binder Loading Page

Once your environment is ready, an image of the GitHub repository will appear on your browser:

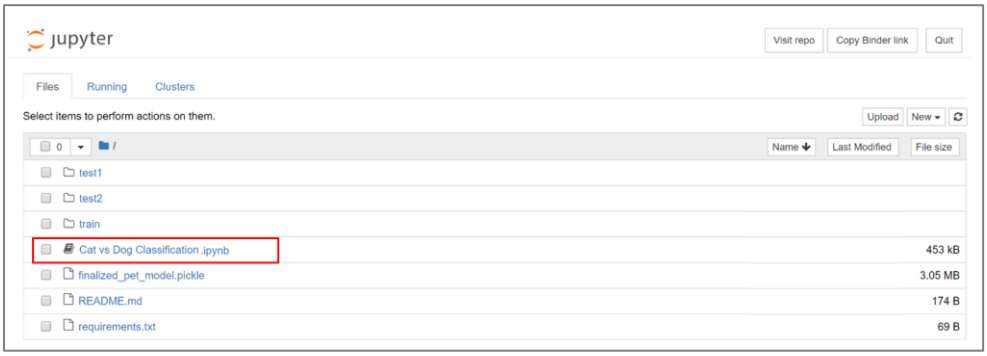


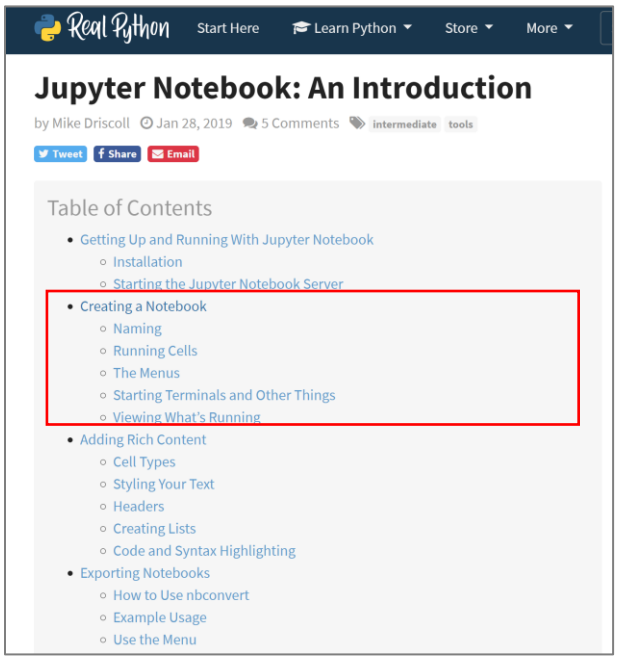
Figure 2: Repository Image

The Jupyter Notebook with all the content we are interested in, has a little book as a logo next to it and ends in ".ipynb".

We put a red box around it in this example to help you learn how to spot it!

Becoming confident running Jupyter Notebook content

Once your Jupyter Notebook is running, we recommend you have a look at this quick tutorial from Real Python which will help you learn how to navigate the Jupyter environment. are interested will not only help use the Notebooks we created for this class but will also help you find and use data analysis workflows all over the internet that could be useful for your work: https://realpython.com/jupyter-notebook-introduction/. You will only need to go through **'Creating a Notebook'** section to comfortably navigate the mini-projects we made but you are, of course, welcome to explore further.



Need Help?

If you encounter difficulties with opening and running the mini-project Notebooks or if you would like to learn more about creating your own, contact:

Nathalie Vladis

(Digital Skills Lab Learning Developer)

n.a.vladis@lse.ac.uk.