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Getting Started with Jupyterlab Notebook

We use Jupyterlab Notebook as a simple environment to run Python code. Follow these steps to get started on Windows

Installation

Download Python from https://www.python.org/downloads/windows/

In the Windows command prompt type

pip install jupyterlab
pip install matplotlib
pip install scipy

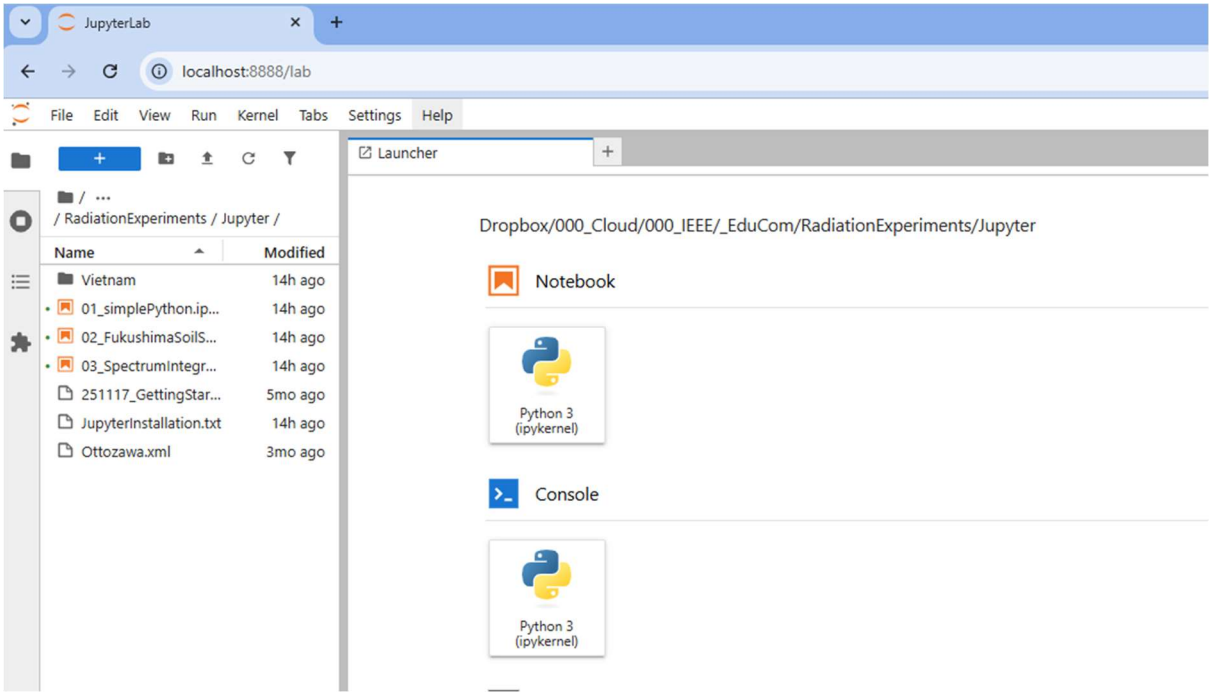
This will install jupyterlab and some useful libraries.

A very simple example

Run Jupyterlab from the Windows command prompt:

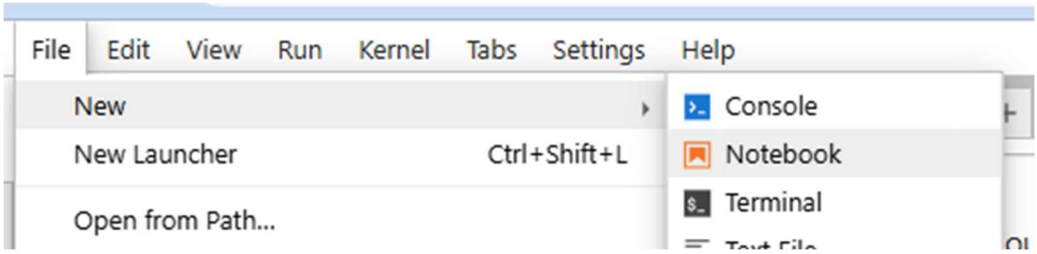
python -m jupyterlab

A webpage will open, connecting you with Jupyterlab running on your computer:

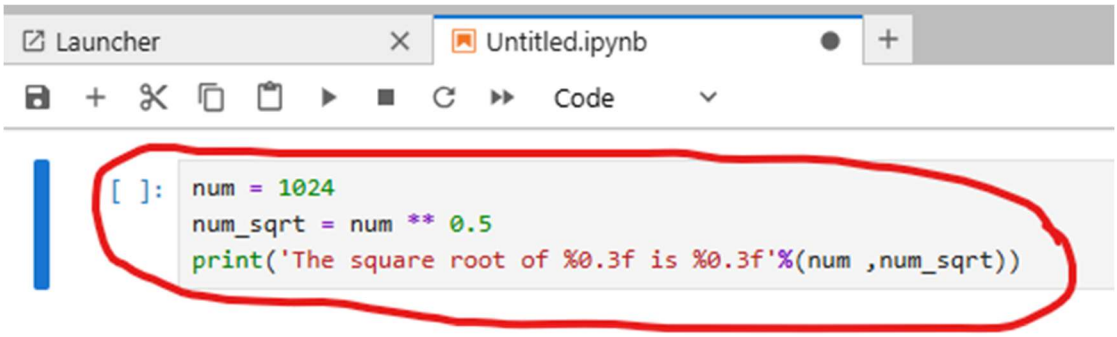


Start a new notebook with File -> New -> Notebook.

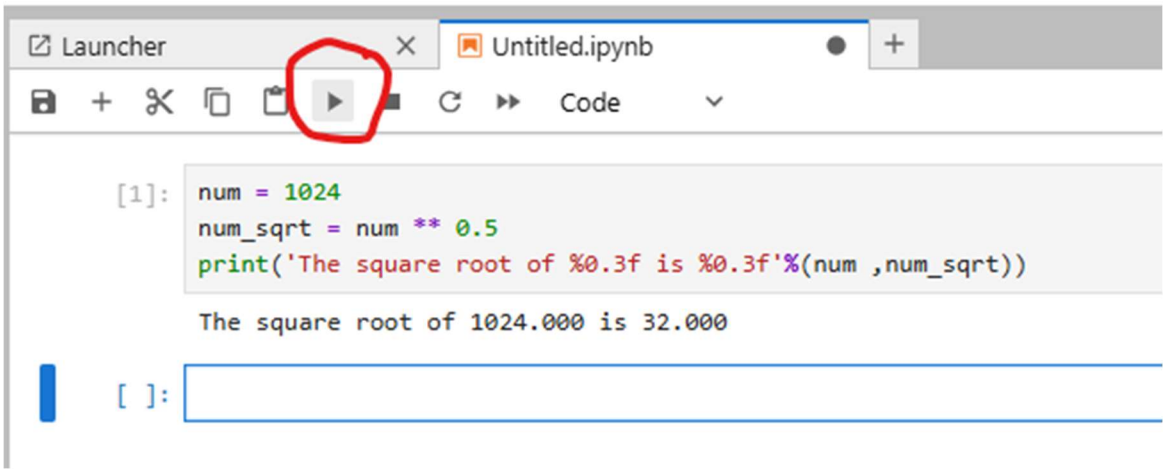
Python3 Kernel is ok:



In the cell you can enter simple Python code



Run this code by clicking the arrow. The output appears below the cell

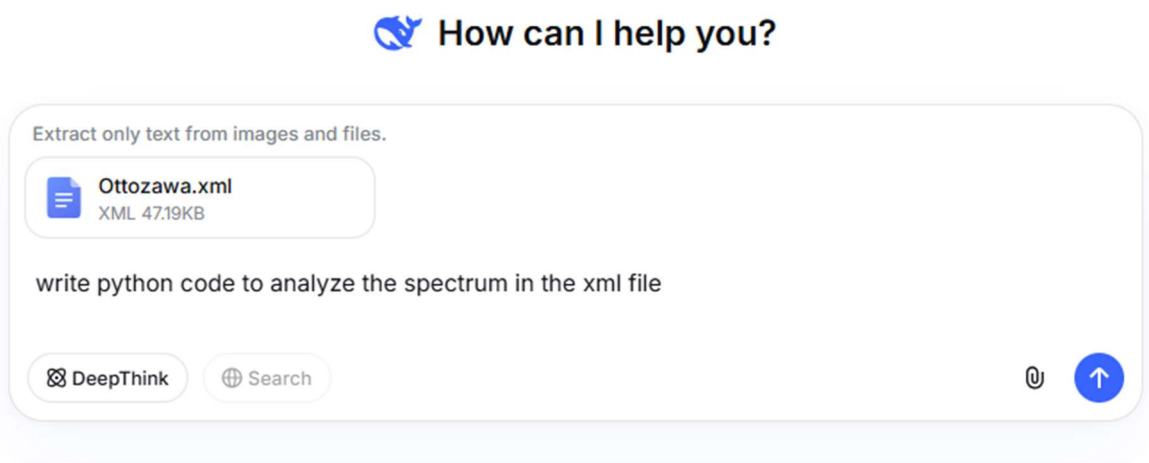


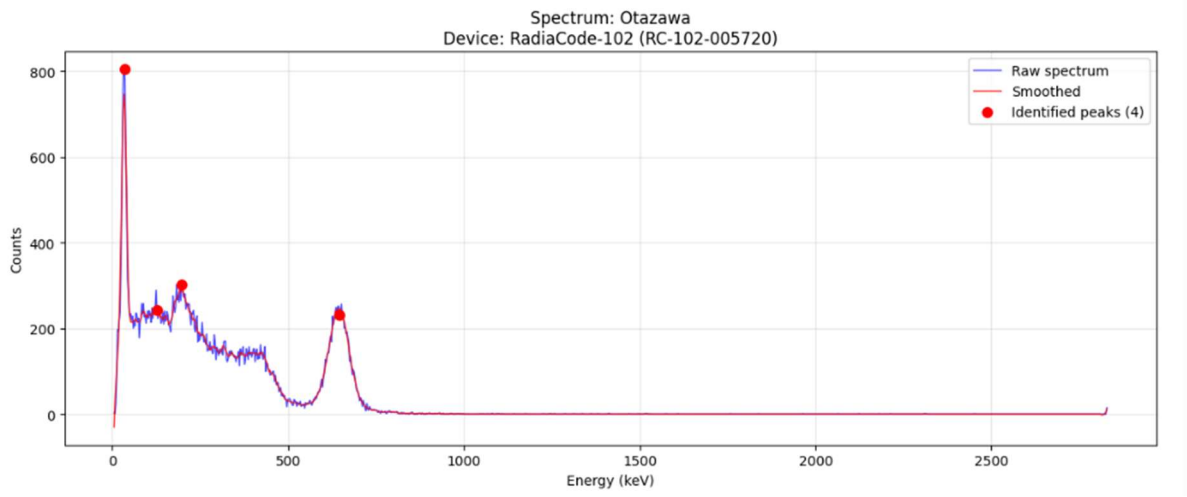
A more complex example

Here is an example how to use an AI chatbot to write python code to analyze measured data and then run it in Jupyter:

Download example data from https://www.proton250.ch/RC/ The file “Ottozawa.xml” contains the gamma spectrum from a soil sample collected near the Fukushima Daiichi nuclear power plant, measured with a Radiacode dosimeter.

Upload this file to your favorite AI chatbot and ask it to write code for you – here is the example using DeepSeek:



Use the “Download” button to copy the code on your computer, then paste it in Jupyterlab (you may download the generated code from https://www.proton250.ch/RC/ the file is deepseek.py)

Run the code. It takes a few seconds and then you will see the gamma spectrum: