

Jupyter/IPython Notebook, Language Agnostic Interactive Computing

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The Jupyter Notebook (previously known as IPython) is web-based interface that allow interaction with remote kernel(s) to analyse and interactively explore data. The notebook application as be designed to work in a network environment which make it suitable for large scale deployment, and provide a convenient format to include narrative with code and analysis results. The notebook format also strive to help with reproducibility and data provenance.

Recent work have also been put into multi-user deployment (jupyterhub) which now make it an off the shelf in browser, and future work will be put into real-time multi-user collaboration on a single document.

I will make a quick overview of what is the notebook, then dive into some of its components, and how they assemble or could be reused in different contexts.