

Data analysis with Python

NumPy & pandas







Fabio Hernandez

github.com/airnandez/numpandas

README

Overview

This repository contains a set of tutorials prepared for helping students get started analysing data using tools of the Python ecosystem. Each tutorial is presented as an independent Python notebook and familiarity with Python is expected to follow them. We recommend to study them in the following order:

	Notebook	Google Collab	Binder
1.	NumPy	 Open in Colab	 launch binder
2.	pandas	 Open in Colab	 launch binder
3.	visualisation	 Open in Colab	 launch binder

How to run these notebooks

To run the notebooks of this repository on your own environment, you need a working Python environment which includes:

- [NumPy](#)
- [pandas](#)
- [matplotlib](#)
- [bokeh](#)
- [Jupyter](#)

The notebooks were verified to work with Python v3.7. We **strongly recommend** to use the [Anaconda](#) distribution, which already includes all the packages needed to execute these notebooks.

If you want to execute these notebooks in your own environment, proceed as shown below:

NumPy Tutorial



Open in Colab launch binder

Author: Fabio Hernandez

Last updated: 2020-03-06

Location: <https://github.com/airnandez/numpandas>

Introduction

This is a short tutorial for helping you getting familiar with the NumPy library. NumPy is written in C and Python and has its origins back in 2005. It is at the heart of several scientific libraries of the Python ecosystem, such as Pandas, SciPy, etc.

This tutorial draws inspiration, ideas and sometimes material from several publicly available sources. Please see the [Acknowledgements](#) section for more details and to deep further on that material.

Reference documentation

The entry point to get the NumPy documentation is www.numpy.org, including a [tutorial](#), a [user guide](#) and a [reference manual](#). Although not strictly required, you are encouraged to open the reference documentation alongside this notebook to follow along.

The [DataCamp NumPy Cheat Sheet](#) can be also a useful quick reference.



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NumPy Tutorial



[Open in Colab](#) [launch binder](#)

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