

Tutorial pandas

Pandas contains high-performance, easy-to-use data structures and data analysis tools for the *python* programming language.

We could have written a whole tutorial about *pandas* but the world wide web is full of resources to learn *python*.

We will take advantage of it and learn to use the *jupyter notebook*. The *Jupyter* is a web-based application that allows you to interactively use *python* in your web browser following instructions. You will soon understand more precisely what we mean.

First download the *pandas-cookbook-ebc.zip* tutorials from our *github* repository at this address and then unzip it:

https://github.com/xapple/python_ebc_2016/tree/master/day_03/

It is now time to start the *jupyter notebook*. Start it from any terminal using:

```
jupyter notebook
```

NOTE: If you do not have *jupyter notebook*:

install *python* via *anaconda* for Windows:

<https://docs.continuum.io/anaconda/install>

for *Linux* and *OS X* type:

```
pip install jupyter ipykernel
```

Once it is running, you should see a file explorer appearing in your favorite browser. Go to the folder you just downloaded by using the interactive file explorer:

```
pandas-cookbook-master/cookbook/
```

and double click on:

```
1.A quick tour of IPython Notebook.ipynb
```

Welcome in the *jupyter notebook*!

Learn about the *jupyter notebook* and *pandas* by completing the *quick tour*. Do not hesitate to modify cells and try your own stuff. The notebook behaves just like *python* does!

Once you are done it is time to learn about pandas. Proceed with “*2.TheDataFrame*” as well as chapters 1 to 4 related to pandas! Take your time to understand the commands you are running. If you are done, try to use *Pandas* with your own data!

The notebook is a great learning tool and there are plenty of notebooks ready online. Have a look there:

<https://github.com/ipython/ipython/wiki/A-gallery-of-interesting-IPython-Notebooks>