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 Jupiter 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/lectures

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 *jupiter 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