**1./ Install conda**

Conda is an open source package management system and environment management system – this is the easiest and most reliable way to manage the installation of all necessaries components. [Here is the installation](https://conda.io/projects/conda/en/latest/user-guide/install/index.html)

Or here the [direct installation of anaconda](https://docs.conda.io/en/latest/) – good if you run python or start with conda

Additional doc is [here](https://docs.conda.io/en/latest/)

**2./ You need to activate an environment that contains all libraries and versions to run properly the notebooks**

You need a proper environment file that contains all libraries to be used by conda to create the environment using the right versions. Here are:

For the dust.training hub download [environment\_dust.yml](https://drive.google.com/file/d/13ddH_03xCWC88mCp256S8qMYqhU3gb_U/view?usp=share_link)

For the data tailor hub download [environment\_tailor.yml](https://drive.google.com/file/d/1HYgqttoHYGmhKBobRyfIYdOwutFUGAKQ/view?usp=share_link)

For the RGB Casablanca hub download [environment\_casablanca.yml](https://drive.google.com/file/d/1uvIS-ABxO3T3uEQzQ-d5TQITBR7ePmua/view?usp=share_link)

**3./ Activate the environment:**

Create the environment from yml file: conda env create -f environment\_\*\*\*.yml

Activate the new environment

For dust you have to type: conda activate dust

For the casablanca\_hub you have to type: conda activate casablanca

For the data tailor you have to type: conda activate tailor

Important – the easiest is to activate one environment – then you may deactivate if you want a new one – run conda deactivate

Verify that the new environment was installed correctly conda env list

Very often may happen that you have conflicts with your python installation – [here how to manage when you have already a python installation](https://conda.io/projects/conda/en/latest/user-guide/install/index.html#installing-conda-on-a-system-that-has-other-python-installations-or-packages) and [here a general guide to manage environments](https://docs.conda.io/projects/conda/en/4.6.0/user-guide/tasks/manage-environments.html#cloning-an-environment)

**4./ Download the notebooks and data**

The easiest way is to download the files you want to use and the data as above

**Important – you need to download the** functions.ipynb notebook

All data are available in the eodata folder - Just check the path of the notebook to be sure to download the right dataset



**5./ Set up the jupyter lab**

You also might want to install jupyterlab. See the description [here](https://jupyter.org/install). Please make sure to install it while your conda environment is activated.

Once jupyterlab is installed in a terminal, navigate to the folder, where you downloaded the notebooks and open the juypterlab interface with the following command:

jupyter lab



**Create the environment file from the terminal**

If you do not have environment file you can generate it – the option is not the recommended one



Open the terminal

NOTE: If you already have an environment.yml file in your current directory, it will be overwritten during this task.

Export your active environment to a new file – type in terminal:

conda env export > environment.yml

You can check the content with

cat environment.yml

You can download it from the main page and the use it in your computer