

Tools Installation and Introduction

A. Needed tools

During this hands-on meetings, you'll need to install as mentioned below on your computer.

1. Python 3.x,
2. Python libraries: (i) jupyter notebook, (ii) pandas, (iii) numpy, (iv) matplotlib, (v) scikit-learn,
3. Any library that may be needed later.

B. Tools installation

Note: If you already have all the tools mentioned in (A) above in your computer, you may skip steps below.

1. Python 3.x
 - a. There are several ways to install python in your computer, but we recommend to install "Anaconda". Open : <https://www.anaconda.com/distribution/>, download python 3.x and choose the one according to your OS.
 - b. Open "Anaconda Command Prompt" (or standard terminal in Ubuntu) and type: `conda env list`. This will show your conda environment. From fresh installation, you will only see "base" environment.
2. Install libraries
 - a. Setting proxy first in Anaconda Command Prompt, type this below and press enter button (in case your internet connection needs a proxy setting):
`conda config --set proxy_servers.https https://your_username:your_password@cache.itb.ac.id:8080`
 - b. Create new environment, type and enter:
`conda create -n your_env_name python=3.6`
 - c. Install libraries:
`conda install pandas numpy matplotlib scikit-learn`
`conda install jupyter notebook`
Note: you can always verify your installed libraries by: `conda list`
3. Open jupyter notebook
 - a. First, activate our environment we just created first:
`conda activate your_env_name`
You will see your environment name shown in the front as follows, in this case the environment name is "datamining".

```
(datamining) C:\Users\ardia>
```
 - b. **(Optional)** You can choose your working folder, e.g., changing working folder to "C:\datamining_s1" (please adjust the command with your own used OS).

```
(datamining) C:\Users\ardia>cd C:\datamining_s1  
(datamining) C:\datamining_s1>
```

- c. Open jupyter notebook:
`jupyter notebook`
It will open your browser. Done~

Enjoy! ☺