Installation instructions

For this workshop you need to install Python on your laptop!

Follow the instructions below to set up your Python environment.

Note: **the course is designed in Python 3.7**, but for most cases will work in Python 3.6 too.

1. Install Python distribution using Anaconda

1.1. [Download Anaconda with Python 3.7 for your OS](https://www.anaconda.com/download/).

1.2. Install it following [these instructions](https://docs.anaconda.com/anaconda/install/)

2. Download course materials

The material for the workshop can be directly downloaded as a zip file or can be cloned from this [GitHub repository](https://github.com/encaramelo/SENSE_2020).

Option 1: Download ZIP file (PREFERRED OPTION)

Download the materials as a zip file and unpack it in a suitable directory, for example, in Documents folder.

Option 2: Using Git

**2.1. Install Git**

If you don't have git version control system installed, you can install it following these instructions:

**LINUX**

Use your package manager. For example, using aptitude you would run the following terminal command: sudo apt-get install git

**MAC**

* The XCode command line tools need to be installed.
* Install XCode if it isn’t already. XCode is available in the Mac App Store for free.
* Launch XCode and accept the license agreement.
* Quit XCode.
* Open a new terminal and run the command xcode-select --install
* Select install on the pop-up menu.

**WINDOWS**

Download and install the [GitHub desktop tools](https://desktop.github.com/).

**2.2. Clone the repository**

2.2.1. Open the command line (terminal or cmd.exe)

2.2.2. (Linux or Mac, optional) Change to a suitable directory (e.g. /home/yourname/Documents)

2.2.3. Clone the repo by typing

On Linux or Mac:

git clone https://github.com/encaramelo/SENSE\_2020\_Python.git

On Windows:

github clone https://github.com/encaramelo/SENSE\_2020\_Python.git

This should create a local copy of the course materials in the current directory.

Windows-users, double check that it is cloned in the directory you want.

3. Create the environment

3.1. Make sure Anaconda is installed and the course materials are downloaded

3.2. Open the command line (e.g., OS X terminal on Mac; **Anaconda prompt** on Windows)

3.3. Navigate to the cloned / downloaded folder (using cd command), for example:

cd C:\Users\myname\Documents\SENSE\_2020\

3.4. Create the environment using conda package manager:

conda env create -f environment.yml

This will take some time depending on your Internet speed (<15 minutes).

4. Activate the environment

Linux / Mac

If your default shell is NOT bash, first type bash. Activate the relevant environment by typing:

source activate sense2020

Windows

Still in the command line (Anaconda prompt), type:

activate sense2020

5. Launch Jupyter

Once the environment is activated, type

jupyter notebook

in the command line. This should open Jupyter Notebook in your browser.