**nstallation Guide - Rasa**

We strongly suggest completing the installation before moving ahead to the tutorials, so that you can modify and execute the code along with the tutorials.

**Requirements:**

**1.** Python (requires Python **3.6.0** or higher)

**For Windows:**

* Use the following code and check whether your Python environment is already installed:

$ python --version

* If not, then install it using
* C:\> pip3 install -U pip

**For macOS:**

* Before installing Python, you have to install the **Homebrew** package manager if you haven’t already. Use the following code to do so:

$ brew update

$ brew install python

**2.** Visual Studio: (For **Windows** only)

* Open the Microsoft Visual Studio link: <https://visualstudio.microsoft.com/downloads/>
* Select ‘Community version 2019’
* Download the installer and select VC++ Build tools on the list

**3.** Creating a virtual environment

We strongly recommend that you create a virtual environment before installing Rasa and Rasa X.

Virtual environment tools like *virtualenv* and *virtualenvwrapper* provide isolated Python environments. They help you install packages without any dependency conflicts and root privileges.

**For** **Windows**:

* You can create a virtual environment by opening the command prompt and typing the following code:

C:\> python3 -m venv --system-site-packages ./venv

* You can activate the virtual environment by typing the following code:

C:\> .\venv\Scripts\activate

**For macOS:**

* You can create the virtual environment by opening the command prompt and typing the following code:

$ python3 -m venv --system-site-packages ./venv

* You can activate the virtual environment by typing the following code:

$ source ./venv/bin/activate

**4.** Installing **Rasa** and **Rasa X**:

* You can install both Rasa and Rasa X using the following code:

$ pip install rasa-x --extra-index-url https://pypi.rasa.com/simple

* Use the following code only if you want to install Rasa:

$ pip install rasa

**5.** Install **Rasa NLU** and **Spacy** in the same command prompt:

$ pip install rasa[spacy]

$ python -m spacy download en\_core\_web\_md

$ python -m spacy link en\_core\_web\_md en

Note: If the system prompts you to upgrade pip, then use the following commands:

**For Windows:**

python -m pip install --upgrade pip

**For macOS:**

pip install --upgrade pip

For more information on installation, you can read the instructions [here](https://rasa.com/docs/rasa/user-guide/installation/).