

HOW TO INSTALL PYTHON AND HIS PACKAGES

PRELIMINARY PARAGRAPH (only for macOS users)

First, I suggest to install “Macs Fan Control” and set the fan speed between 4.000 and 5.000 rpm.

1. Download and install the OS X hosts Virtual Box v. 6.1.16 from this link: https://www.virtualbox.org/wiki/Download_Old_Builds_6_1 (other versions have some bugs with macOS microphone);
2. Download and install the “Extension Pack” for 6.1.16;
3. Now install virtual box (pay attention at “Security e Privacy” option in macOS preferences);
4. Download Windows 10 iso files: <https://www.microsoft.com/it-it/software-download/windows10ISO>;
5. From Virtual Box create new VDI machine (I recommend at least 4096 GB of ram, then check “Create instantly a new rigid disk” and choose VDI option);
6. Before starting the machine, go to options and set:
 - A. From System —> processor, select at least two processor if you have those;
 - B. From Screen change Video Memory value;
 - C. From Audio enable “Audio input” and “Audio output”;
 - D. From Ethernet set “NAT”;
 - E. From Share Folder, you can set any default folder (this folder can be read by your macOS and Windows);
 - F. From USB you can add any flash drivers or USB microphone;
 - G. From Storage, go to “Empty” and then click on Disk Image and add the ISO file.
7. If you have some kernel problems when you start the machine, follow this link: <https://apple.stackexchange.com/questions/408154/mac-os-big-sur-virtualbox-error-the-virtual-machine-has-terminated-unexpectedly-d>;
8. Install Windows 10 Pro;
9. For Full Screen go to Device —> Insert Guest Additions CD image... Then install it and reboot the system;

DOWNLOAD AND INSTALL PYTHON ON WINDOWS

1. Download and install python: <https://www.python.org/downloads/> (when you install python, please see where it will be installed; in my case “C:\Users\...\AppData\Local\Programs\Python\Python39”);
2. From cmd, go to your folder and type “python - -version” and “pip - -version”. Are they install?
3. Download and install git: <https://git-scm.com/downloads>;
4. From that folder, install your packages with “python -m ...” Command;
5. For example: “python -m pip install gTTS” (you need to use pip or others to install packages);

6. For playsound, I suggest you “python -m pip install playsound==1.2.2” (other versions have some problems). If you have a C++ 14.0 problem, go to <https://visualstudio.microsoft.com/it/visual-cpp-build-tools/>;
7. For installing pyaudio, see <https://www.youtube.com/watch?v=AKymlea8sYM>;
8. From Python IDLE verify if those packages are installed correctly (type “import ...”);
9. For python I’ve used ATOM (<https://atom.io>);
10. After download and install ATOM, go to File —> Settings —> Install and type “script” (you will use it for run programs with ctrl + shift + B; ctrl is different between cmd) and “busy-signal”;
11. From a generic folder, right click on “This PC” —> properties —> advanced properties —> environmental variables and then paste your Python Folder to PATHs (remember to set this folder at the first position);
12. Reboot the system.

DOWNLOAD AND INSTALL JAVA AND SEPA

1. Download and install java v. 1.8;
2. Follow this link for installing SEPA: <https://github.com/arces-wot/SEPABins>;
3. You must use java 1.8 version; for blazegraph use for example “C:\Program Files\Java\jre1.8.0_301\bin\java” -jar blazegraph.jar;
4. For using SEPA with python, follow: <https://github.com/arces-wot/SEPA-python3-APIs>;
5. Any further information: <http://mml.arces.unibo.it/TR/sepa.html>, <http://mml.arces.unibo.it/TR/jsap.html>;
6. If you see examples, please see the other files.