Installing Python and modules on FreeFlow Core

NOTE: This requires the Advanced Automation License to use the External Component.

FreeFlow Core can be enhanced via the External Component via scripting. One of the main scripting languages is Python.

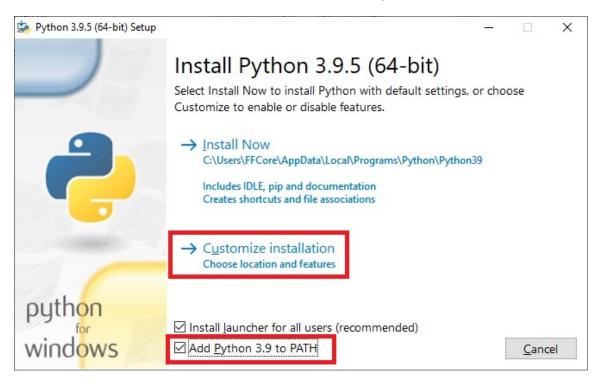
Download the newest version of Python here:

https://www.python.org/downloads/windows/

This documentation is to install Python is 3.9.x You will see the version number as part of the typical installation path. As such any .bat files used in FFCore may need the path to Python updated inside it.

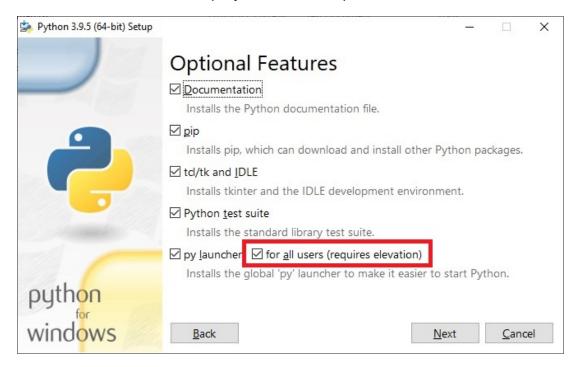
Install Python:

Select the checkbox at the bottom of the window to 'Add Python 3.9 to PATH'



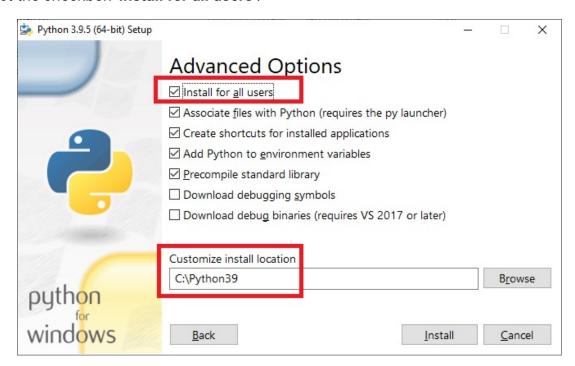
Select the option to **Customize Installation**.

Select the checkbox 'for all users (requires elevation)'.



Select Next.

Select the checkbox 'Install for all users':



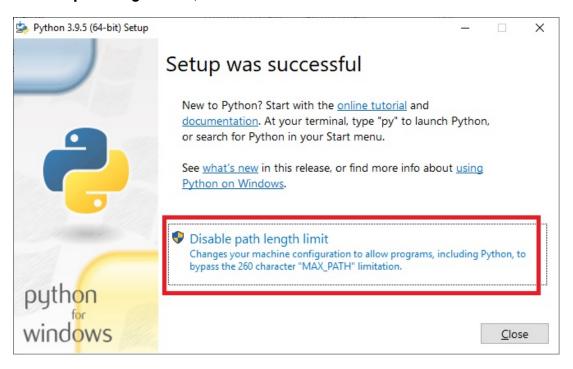
Then **CHANGE** the install location to a simple path like C:\Python39 as shown above.

Write this location down as you will need this path to update the .bat scripts that will call the Python scripts.

NOTE: If the installation path is left as the default, then it is a long path, and if the path is into 'Program Files' then the install will go in ok, but all the add on modules will typically FAIL during installation and get placed into the incorrect location and will not function when called inside FreeFlow Core. Use the recommended path shown above to avoid these issues.

Select INSTALL.

Select 'Disable path length limit', then select Close.



Installation complete.

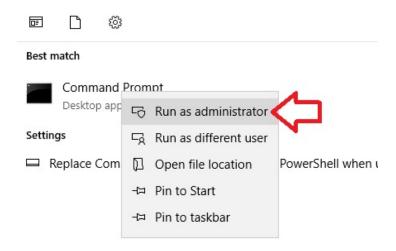
Upgrading PIP and installing modules

PIP is a component used in Python. When installing new modules, you will get warnings about new pip updates that are available.

Of course, you must install Python before you can upgrade pip.

After the installation of Python, click on the '**Start**' menu, then type '**Command Prompt**'. After you type a few characters it should appear at the top of the menu.

Right click on 'Command Prompt' and select 'Run as Administrator':



Type the following to upgrade pip:

Python.exe -m pip install -upgrade pip

Installing Optional Modules

There are many optional modules that can be installed. The syntax will typically be the same for all modules.

We will use 2 examples that we use in Core: PyMuPDF and PyPDF2.

Open the Command Prompt as administrator – or run these just after upgrading pip.

For PyPDF2:

Type:

pip install pypdf2

Files will download and installation will occur (must have internet connection):

For PyMuPDF:

Type:

pip install pymupdf

Files will download and installation will occur (must have internet connection).

NOTE: If Python was installed in a location like 'Program Files' you are bound to see 'permissions' issues with the optional modules during installation.

Some modules will have pre-requisite applications that must be installed before they can be installed (like Visual Studio). Search for the specific directions for each module online.