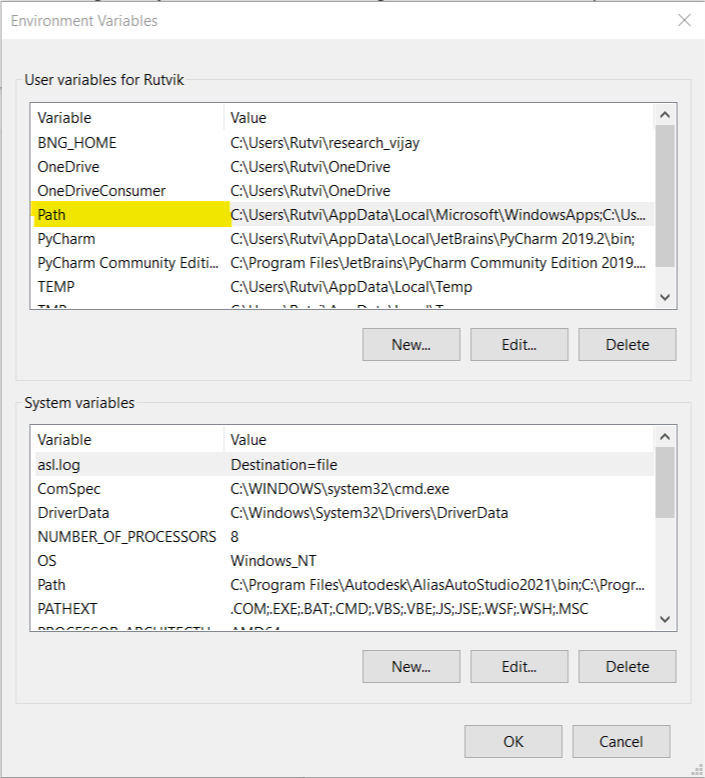
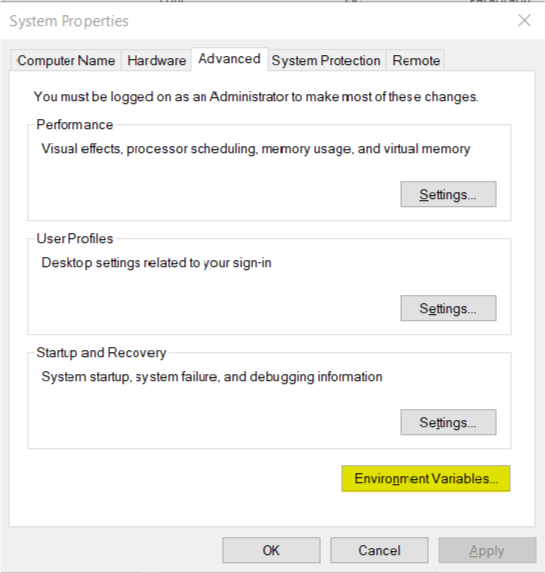
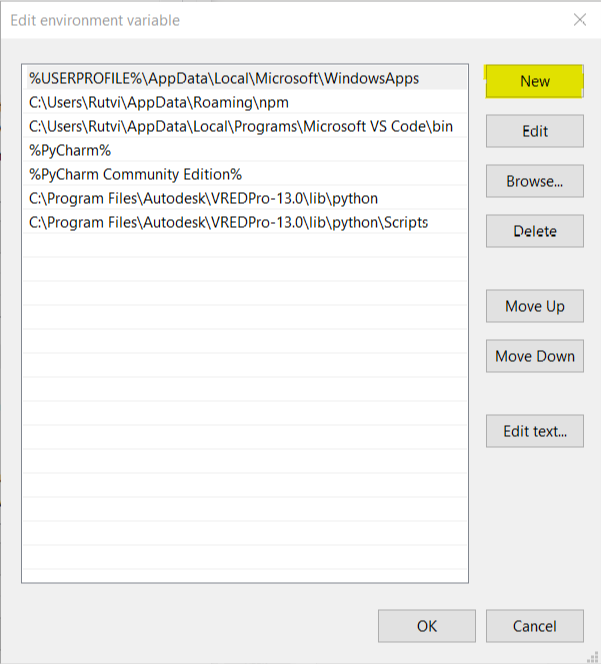
Installation guide

To run speech recognition in your VRED you first need to download and install the speech recognition library. SpeechRecognition is compatible with Python 2.6, 2.7 and 3.3+. PyAudio is required to use and enable the microphone input.

# Setting up Environment Variables

Click on the start button and start typing the following “Environment Variables”. As you start typing this word you will get the suggestion “Edit the system environment variables” and click on it. You will get the following window on the left. Click on Environment Variables.

 Above window will pop up. Now double click on the “Path” under the User Variables. The left window will pop up (Note: The values inside this window might be different for your system). Click on New and paste the following address: C:\Program Files\Autodesk\VREDPro-13.0\lib\python and click enter. Now add another address C:\Program Files\Autodesk\VREDPro-13.0\lib\python\Scripts and click enter again. Now follow the same procedure for “Path” under the System Variables. Click Ok and exit the environment variables. Now restart your computer.

# Installing pip

To install pip in your system first write following command in the location where you want to download **get -pip.py** file and open terminal:

curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py

Then run the following command in the folder where you have downloaded get-pip.py:

python get-pip.py

if you encounter any error then follow the mentioned steps:

1. Download the external pip37.zip from GitHub folder (<Simon: Add the folder name here>)
2. Extract this to C:\Program Files\Autodesk\VREDPro-13.0\lib\python\Lib\site-packages
3. Then you can use "python -m pip"

Pip is now installed!

To check your pip version and to confirm pip has been installed correctly run the command:

python -m pip --version

# Speech Recognition

Open terminal and write the following command:

python -m pip install SpeechRecognition

Once the installation is finished you can verify the installation by writing the following code into your VRED terminal:

>>> import speech\_recognition as sr

>>> sr.\_\_version\_\_

>>> ‘3.8.1’

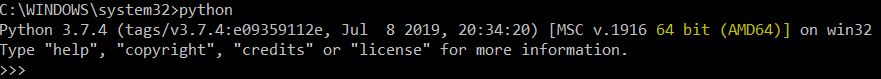
# PyAudio

Open terminal and write the following command:

python -m pip install pyaudio

If you encounter an error message: *“*error: Microsoft Visual C++ 14.0 is required*”*

Find your python version by typing the following command:



Find the following .whl file from the GitHub folder. <Simon Add the folder name> (Note: this is an unofficial windows binaries for python extension packages; Source: [Stack overflow forum](https://stackoverflow.com/questions/52283840/i-cant-install-pyaudio-on-windows-how-to-solve-error-microsoft-visual-c-14)) and download the following file.

PyAudio‑0.2.11‑cp37‑cp37m‑win\_amd64.whl

Now, open terminal in the folder where the file is downloaded

***Press shift + right click*** in the folder (click anywhere in the empty space) and click on “Open Powershell Window Here”

Now in the terminal write the following command:

python -m pip install PyAudio‑0.2.11‑cp37‑cp37m‑win\_amd64.whl

**Sources:** [How to install pip](https://pip.pypa.io/en/stable/installing/), [Speech Recognition](https://pypi.org/project/SpeechRecognition/#description), [PyAudio](https://pypi.org/project/PyAudio/#files), [How to install packages in python](https://packaging.python.org/tutorials/installing-packages/)