# RUST installation for windows:

1. Visual C++ tools 2015

Rust requires the Microsoft C++ build tools for Visual Studio 2013 or later.

   a) The easiest way to acquire the build tools is by installing Microsoft Visual

C++ Build Tools 2015 which provides just the Visual C++ build tools:

http://landinghub.visualstudio.com/visual-cpp-build-tools

   b) Alternately, you can install Visual Studio 2015 or Visual Studio 2013 and during install select the "C++ tools":

 https://www.visualstudio.com/downloads/

Method a) is preferred.

2. Go to https://win.rustup.rs/
 This will download rustup-init.exe

3. Double Click and start the installation

You will get the following :

*Welcome to Rust!*

*This will download and install the official compiler for the Rust programming language, and its package manager, Cargo.*

*It will add the cargo, rustc, rustup and other commands to Cargo's bin directory, located at:*

*C:\Users\dell\.cargo\bin*

*This path will then be added to your PATH environment variable by modifying the*

*HKEY_CURRENT_USER/Environment/PATH registry key.*

*You can uninstall at any time with rustup self-uninstall and these changes will be reverted.*

*Current installation options:*

  *default host triple: x86_64-pc-windows-msvc*

   *default toolchain: stable*

 *modify PATH variable: yes*

*1) Proceed with installation (default)*

*2) Customize installation*

*3) Cancel installation*

4. Press 1 which is the default installation

5. To check if rust is installed properly, type the following command:

  *rustc –-version*

You should get: *rustc 1.23.0 (766bd11c8 2018-01-01)*

6. Also try: *cargo –-version*

You should get: *cargo 0.24.0 (45043115c 2017-12-05)*

# RUST installation for Ubuntu:

1. Open the terminal

2. Type: *curl https://sh.rustup.rs-sSf|sh*

If curl is not installed already you might the below statement:

The program 'curl' is currently not installed.  You can install it by typing:

*>>>sudo apt-get install curl*

 If still you are getting error: *E: Invalid operation curl*

 Then type this:

*>>>sudo sed -i -e 's/us.archive.ubuntu.com/archive.ubuntu.com/g' /etc/apt/sources.list*

*>>>sudo apt-get update*

*>>>sudo apt-get install curl*

3. Press 1 which is the default installation

4. To check if rust is installed properly, type the following command:

  *rustc --version*

 You get the following error because cargo is not your path variable:

The program 'rustc' is currently not installed.  You can install it by typing:

*sudo apt-get install rustc*

Set cargo as path:

*>>>export PATH=$PATH:~/.cargo/bin*

Now try step 4 again

You should get:  *rustc 1.23.0 (766bd11c8 2018-01-01)*

5. Also try: *cargo -–version*

You should get:  *cargo 0.24.0 (45043115c 2017-12-05)*

# RUST Installation for MAC OS X:

1.  Open the terminal and type:
    curl https://sh.rustup.rs –sSf | sh

    This will download a script and start the installation. You may be prompted for your password. If it all goes well, you'll see this appear:

    Rust is installed now. Great!

2.   The installation script automatically adds Rust to your system PATH after your next login. If you want to start using Rust right away, run the following command in your shell:

    **source $HOME/.cargo/env**

    Alternatively, add the following line to your ~/.bash_profile:

    *$ export PATH="$HOME/.cargo/bin:$PATH"*