

1) **Prerequisites: A working bash shell**

- Bash shell comes for free with macOS and Linux distros
- For Windows 10, you need to set up Windows Subsystem for Linux (WSL)
- Installation of WSL is easy (can be tedious)
- Follow the instructions for WSL installation :

<https://docs.microsoft.com/en-us/windows/wsl/install-win10>

2) **Open the bash shell and check the availability of the following tools**

(toolchains)

a) curl b) gcc c) clang d) make

If they are not present, you can install them using the package manager from Ubuntu:

```
sudo apt install curl gcc clang make
```

Note: The "apt" command may vary according to the Linux distro.

For Fedora, it is yum (or rpm)

For macOS, you can use Homebrew

Homebrew itself can be installed using:

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

Then, install curl etc. using

```
brew install curl
```

```
brew install gcc
```

..... and so on

3) *Fetch ciao prolog sources and build ciao prolog*

Run command:

```
curl https://ciao-lang.org/boot -sSfL | sh
```

Select the following installation options as shown in screenshot



```
Activities Terminal Jan 13 18:43 sarat@sarat-VirtualBox: ~
sarat@sarat-VirtualBox:~$ curl https://ciao-lang.org/boot -sSfL | sh
Default source version: master
Default binary version: 1.19.0
Detected OS: LINUX
Detected architecture: x86_64

Welcome to the interactive network installation for Ciao!
(Press C-c to cancel)

Install the development environment? (yes/no) no
Install a prebuilt distribution? (yes/no) no
Enable this installation by default? (yes/no) yes
```

Note: Building ciao from sources takes some time!

3a) Check if ciao is available in PATH variable, by running ciao at the top level.

- If you are able to run ciao successfully, then go to step 4

- If ciao is not available post installation, we need to make it available in PATH

3b) Locate .ciaoroot in your home folder using:

```
find ~/.ciaoroot
```

If indeed, .ciaoroot is found in the home folder, go to step 3c, else retry from step 3

3c) Add the following line to ~/.bashrc file

```
PATH=$PATH:~/.ciaoroot/master/build/bin/
```

Then, run "source ~/.bashrc"

4) ***Finally, install sCASP using the following command:***

```
ciao get gitlab.software.imdea.org/ciao-lang/sCASP
```

5) ***Run scasp to check if it is built and installed!***