

For Windows Users

1. Download and install **VirtualBox** from <https://www.virtualbox.org>, which is free software.
2. Start VirtualBox to create a virtual machine on your Windows machine.
3. Download and install Ubuntu (Linux) Desktop from <https://www.ubuntu.com>.
4. Create an Ubuntu user account and open a terminal to install the following programs:
gfortran, enscript, emacs, vim, grace, gv

Optional software:

a2ps, xv, f2c, texlive-base, texlive-latex-recommended, texlive,
texlive-latex-extra

The terminal command to install a program is (\$ denotes the shell prompt):

```
$ sudo apt install <deb name>
```

where <deb name> stands for the program you want to install. Here is an example:

```
$ sudo apt install gfortran
```

For Mac Users

1. Download Xcode from the App Store
Once the installation is complete, go to your Applications folder, double-click on Xcode and install any required components if asked to.
2. Install Xcode command line tools:
Launch a terminal, found in /Applications/Utilities/
Type the following command at the shell prompt: `xcode-select --install`

(Alternatively Xcode and Xcode command line tools can also be downloaded from Apple's developer website at <https://developer.apple.com/xcode/>)

3. Download and install XQuartz from <https://www.xquartz.org>
4. Download and install MacPorts from <https://www.macports.org/install.php>
5. Download and install iTerm2 from <https://www.iterm2.com/version3.html>
6. Download and install gfortran compiler from <http://hpc.sourceforge.net>

Reboot your Mac.

Open a terminal (e.g., iTerm) and install the following programs: coreutils, enscript, a2ps, findutils, xmgrace, gv, xv, f2c, latex, emacs, vim. This is done by executing

```
$ sudo port install <portname>
```

at the terminal's shell prompt, where <portname> is one of the program names listed above.