

Getting ready (using xubuntu 22.04, same as Ubuntu 20.04)

General installation techniques

Important - you need make tools installed! `sudo apt-get install build-essential`

Installing from a downloaded .deb file

`sudo dpkg -i /absolute/path/to/deb/file` then if (when!) it fails, to make sure all dependencies are fixed:

`sudo apt-get install -f` and rerun `dpkg`.

Specific packages

Anaconda (Python)

Installing anaconda - anaconda-navigator not running on xubuntu on HSMA

LaTeX and LyX

`sudo apt-get install texlive-full` (it is easier than messing around with `tlmgr`) `sudo apt-get install lyx`

Git

`install git`

`sudo apt install git`

GitHub

```
install github
sudo apt install gh
give github authority
gh auth login
mkdir (whatever)
cd (whatever)
Clone from git:
gh repo clone hsma-programme/h6_1a_welcome_to_hsma
```

QGIS

Painful to install, use their website guide <https://qgis.org/en/site/forusers/alldownloads.html#debian-ubuntu>

Quarto

Download from their website at <https://quarto.org/docs/get-started/> then install as per .deb packages

R

To obtain the latest R 4.1 packages, add an entry like

```
deb https://cloud.r-project.org/bin/linux/ubuntu jammy-cran40/
```

in your /etc/apt/sources.list file.

```
sudo apt update -qq
```

```
sudo apt install --no-install-recommends software-properties-common dirmngr
```

this fails on 22.04

```
gpg --show-keys /etc/apt/trusted.gpg.d/cran_ubuntu_key.asc
```

Fingerprint: E298A3A825C0D65DFD57CBB651716619E084DAB9

```
sudo add-apt-repository "deb https://cloud.r-project.org/bin/linux/ubuntu  
$(lsb_release -cs)-cran40/"
```

```
sudo apt install --no-install-recommends r-base
```

Trying

```
wget https://cloud.r-project.org/bin/linux/ubuntu/marutter_pubkey.asc
```

Confirm E298A3A825C0D65DFD57CBB651716619E084DAB9 with an expiration date of 2027-09-30 using

```
gpg --show-keys ./marutter_pubkey.asc
```

can then put the key in the right place:

```
wget -q0- https://cloud.r-project.org/bin/linux/ubuntu/marutter_pubkey.asc |  
sudo tee -a /etc/apt/trusted.gpg.d/cran_ubuntu_key.asc Or copy it manually to the  
correct place and name.
```

Rstudio

Download from their website <https://posit.co/download/rstudio-desktop/>

Install as per .deb files.

At the end running `quarto check` gives a good summary of your installation.

This is my installation 14-4-2024

```
Quarto 1.4.553  
[ ] Checking versions of quarto binary dependencies...  
    Pandoc version 3.1.11: OK  
    Dart Sass version 1.69.5: OK  
    Deno version 1.37.2: OK  
[ ] Checking versions of quarto dependencies.....OK  
[ ] Checking Quarto installation.....OK  
    Version: 1.4.553  
    Path: /opt/quarto/bin  
  
[ ] Checking tools.....OK  
    TinyTeX: (not installed)
```

```

    Chromium: (not installed)

[] Checking LaTeX.....OK
    Using: Installation From Path
    Path: /usr/bin
    Version: 2021

[] Checking basic markdown render....OK

[] Checking Python 3 installation....OK
    Version: 3.11.7 (Conda)
    Path: /home/luke/anaconda3/bin/python
    Jupyter: 5.5.0
    Kernels: python3

[] Checking Jupyter engine render....OK

[] Checking R installation.....OK
    Version: 4.3.3
    Path: /usr/lib/R
    LibPaths:
      - /home/luke/R/x86_64-pc-linux-gnu-library/4.3
      - /usr/local/lib/R/site-library
      - /usr/lib/R/site-library
      - /usr/lib/R/library
    knitr: (None)
    rmarkdown: (None)

    The knitr package is not available in this R installation.
    Install with install.packages("knitr")
    The rmarkdown package is not available in this R installation.
    Install with install.packages("rmarkdown")

```

Zoom

Download from the website <https://us04web.zoom.us/support/download>

May need to import key `sudo apt install rpm` if not already there download the key from their website <https://us04web.zoom.us/linux/download/pubkey?version=5-12-6> NB this is subject to change so check on site.

```
rpm --import package-signing-key-[version].pub
```

Then install using the .deb instructions above.