Software installation Guide for QGIS, ILWIS, R and R Studio

A) Installing QGIS

Step 1: Go to the site https://qgis.org/en/site/forusers/download.html and download the latest release depending on the computer OS. For example, for Windows 64 bit, download QGIS Standalone Installer Version 3.10 (64 bit).
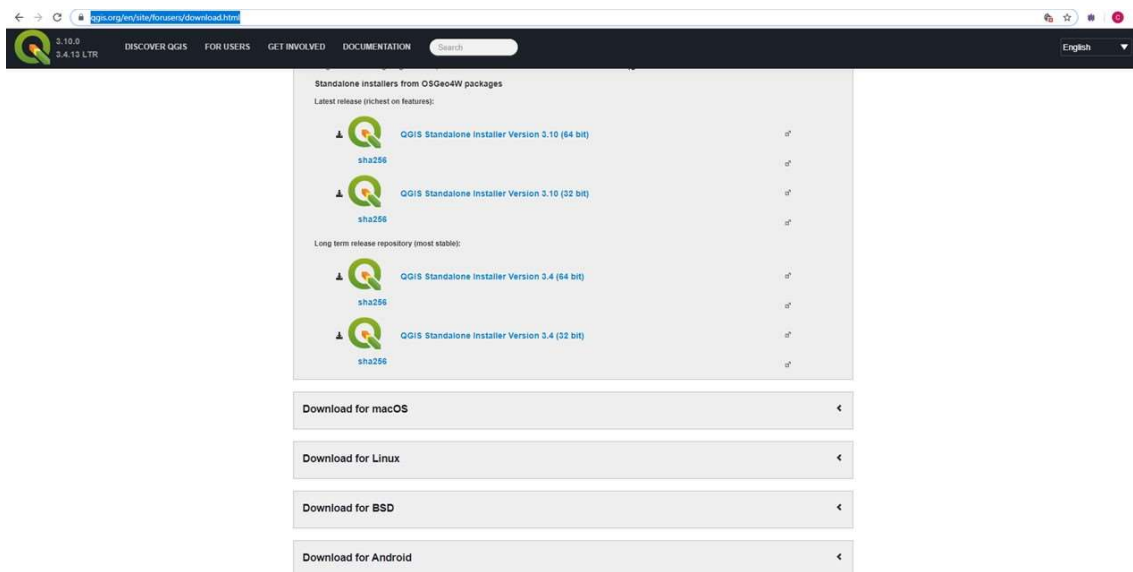
Step 2: Launch the installer

Step 3: The software (QGIS Desktop with GRASS) is available in a QGIS folder

B) Installing ILWIS

Step 1: Go to the site https://www.itc.nl/ilwis/download/ilwis33/ and download ILWIS3.3Academic.exe (19.3 MB) and ILWIS 3.31 Update (for ILWIS 3.3 only)

Step 2) Install ILWIS3.3Academic.exe (19.3 MB) first and do not start the software yet.

Step 3) Install ILWIS 3.31 Update (for ILWIS 3.3 only). During installation, it will request to locate ILWIS 3.3. Navigate to C:\Program Files (x86)\ILWIS 3.3 Academic and scroll down to choose the blue colored file Ilwis30.exe. Complete the installation

Step 4) Launch the software (whose icon should now be on the desktop).
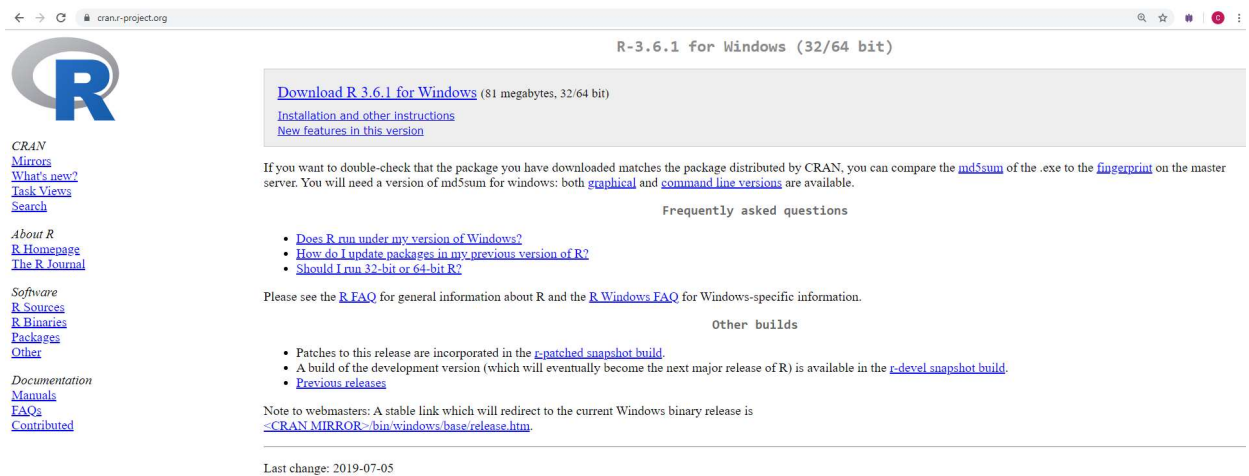
C) Installing R

Step 1: Go to the site https://cran.r-project.org/ and download the installer suitable for your operating system. For Windows, choosing Download R for Windows takes you to another site from which you choose *Install R for the first time*. Another window for download opens.

Step 2: Install the window installer, choose the language (preferably English), bit rate for your computer, and choose *No (Accept default)* for the start-up options.

D) Installing RStudio

Step 1: Go to the site https://www.rstudio.com/ , click download Rstudio, the preferred version (like Free RStudio Desktop) and download.

Step 2. Launch the installer and install the software

E) Installing R package

Step 1: Start RStudio and click the Packages Icon in the bottom right corner, the click *Install.* A window for install Packages pops.

Step 2: If connected to internet, type the name of the package to install (for example sp)

Step 3: Click *Install* button and the package will be installed and ready for use