

# Installing QGIS

Might take about 10-15 minutes to install it

The installation process is not complicated, but it takes some time since the file size is somewhat large.

# What is QGIS

- QGIS is a free, open-source Geographic Information System (GIS)
- Can be used in combination with Python and PostgreSQL
- Works on Windows, Mac, Linux, Unix, Android OS
- Will use it for the exercises at Week 7

# Installing QGIS

The screenshot shows the QGIS website homepage. At the top left, there is a navigation bar with the QGIS logo, version numbers (3.16.2 and 3.10.13 LTR), and links for 'DISCOVER QGIS', 'FOR USERS', 'GET INVOLVED', and 'DOCUMENTATION'. A search bar is located to the right of these links. In the top right corner, there is a language dropdown menu set to 'English'. Below the navigation bar, the text 'QGIS' is prominently displayed, followed by the tagline 'A Free and Open Source Geographic Information System'. A large banner features a green-tinted aerial map background with the text 'QGIS 3.16 Hannover has been released!' and a small QGIS logo. Below the banner, it says 'New release: 3.16!' and provides links for 'installer or packages' and 'changelog'. Further down, there is a section with the text 'Create, edit, visualise, analyse and publish geospatial information on Windows, Mac, Linux, BSD and mobile devices' and 'For your desktop, server, in your web browser and as developer libraries'. Two buttons are visible: 'Download Now' (highlighted with a red box) and 'Support QGIS'. Below the 'Download Now' button, the versions 'Version 3.16.2' and 'Version 3.10.13 LTR' are listed. Below the 'Support QGIS' button, the text 'Donate now!' is present.

Open the QGIS site (<https://qgis.org/>) and click on "Download Now"

Select "32 bit" or "64 bit" according to your PC environment, and download a corresponding file.

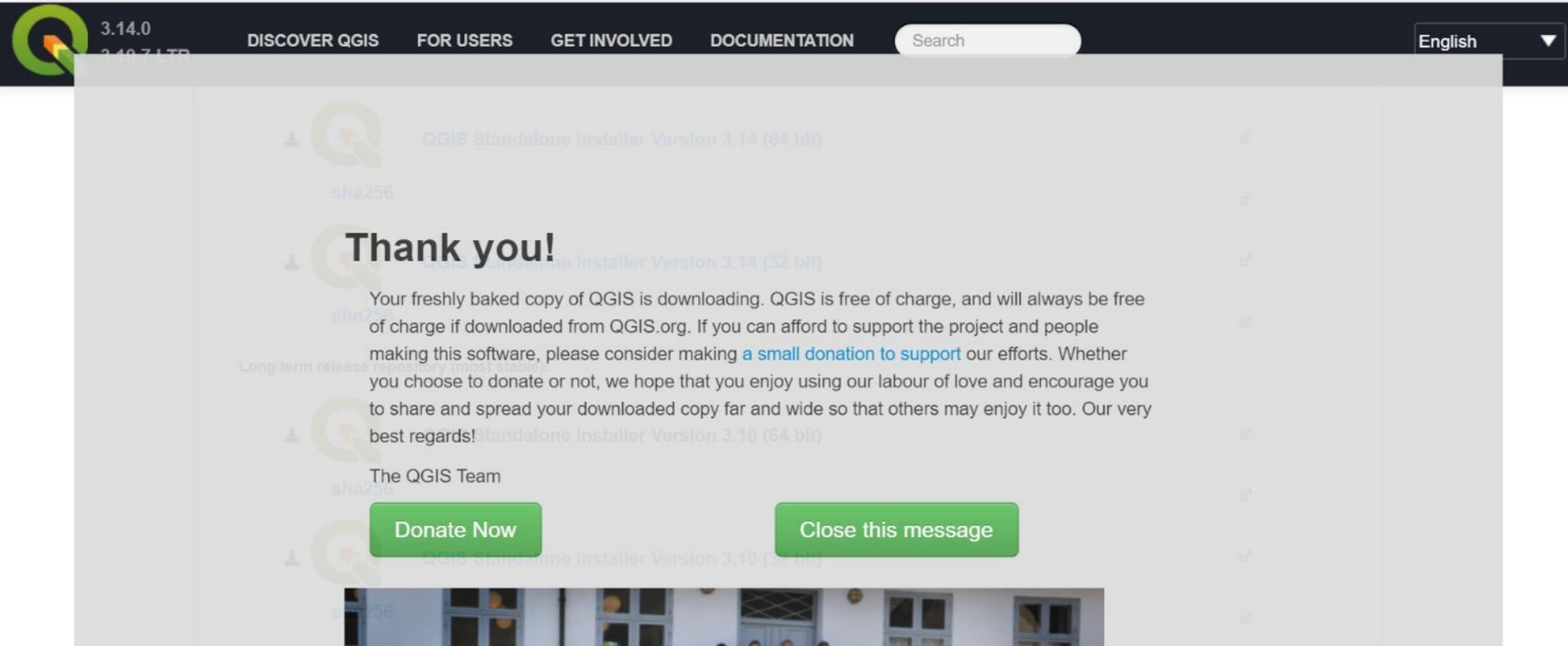
The screenshot shows the QGIS website interface. At the top, there is a navigation bar with the QGIS logo, version numbers (3.16.2 and 3.10.13 LTR), and menu items: DISCOVER QGIS, FOR USERS, GET INVOLVED, and DOCUMENTATION. A search bar and a language dropdown (English) are also present.

Below the navigation bar, there is a section with instructions: "In the installer choose **Desktop Express Install** and select **QGIS** to install the *latest release*. To get the *long term release* (that is not also the latest release) choose **Advanced Install** and select **qgis-ltr-full**. To get the *bleeding-edge development build* choose **Advanced Install** and select **qgis-full-dev**."

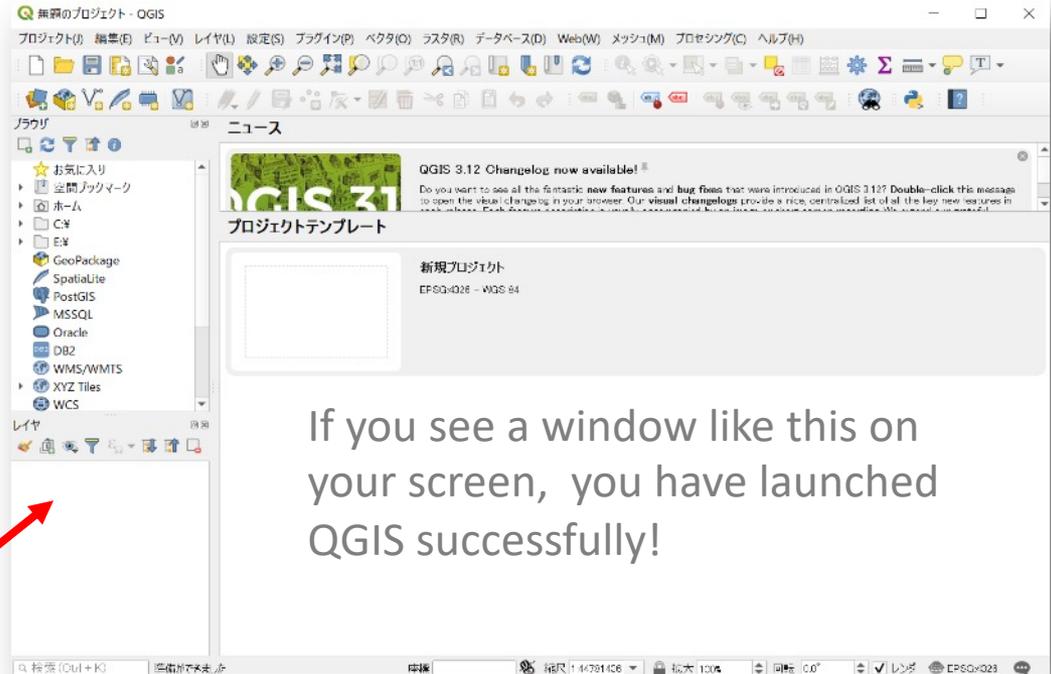
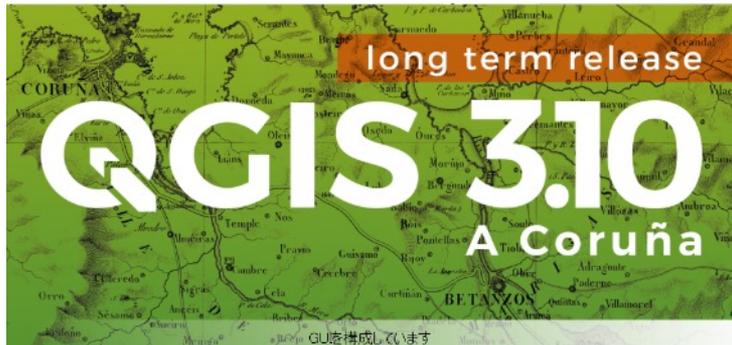
Underneath, there is a section titled "Standalone installers from OSGeo4W packages". It lists two categories:

- Latest release (richest on features):**
  - QGIS Standalone Installer Version 3.16 (64 bit) with a download icon and a sha256 link.
  - QGIS Standalone Installer Version 3.16 (32 bit) with a download icon and a sha256 link.
- Long term release repository (most stable):** (This section is highlighted with a red box in the image)
  - QGIS Standalone Installer Version 3.10 (64 bit) with a download icon and a sha256 link.
  - QGIS Standalone Installer Version 3.10 (32 bit) with a download icon and a sha256 link.

After downloading the file, open the downloaded .exe file and install QGIS

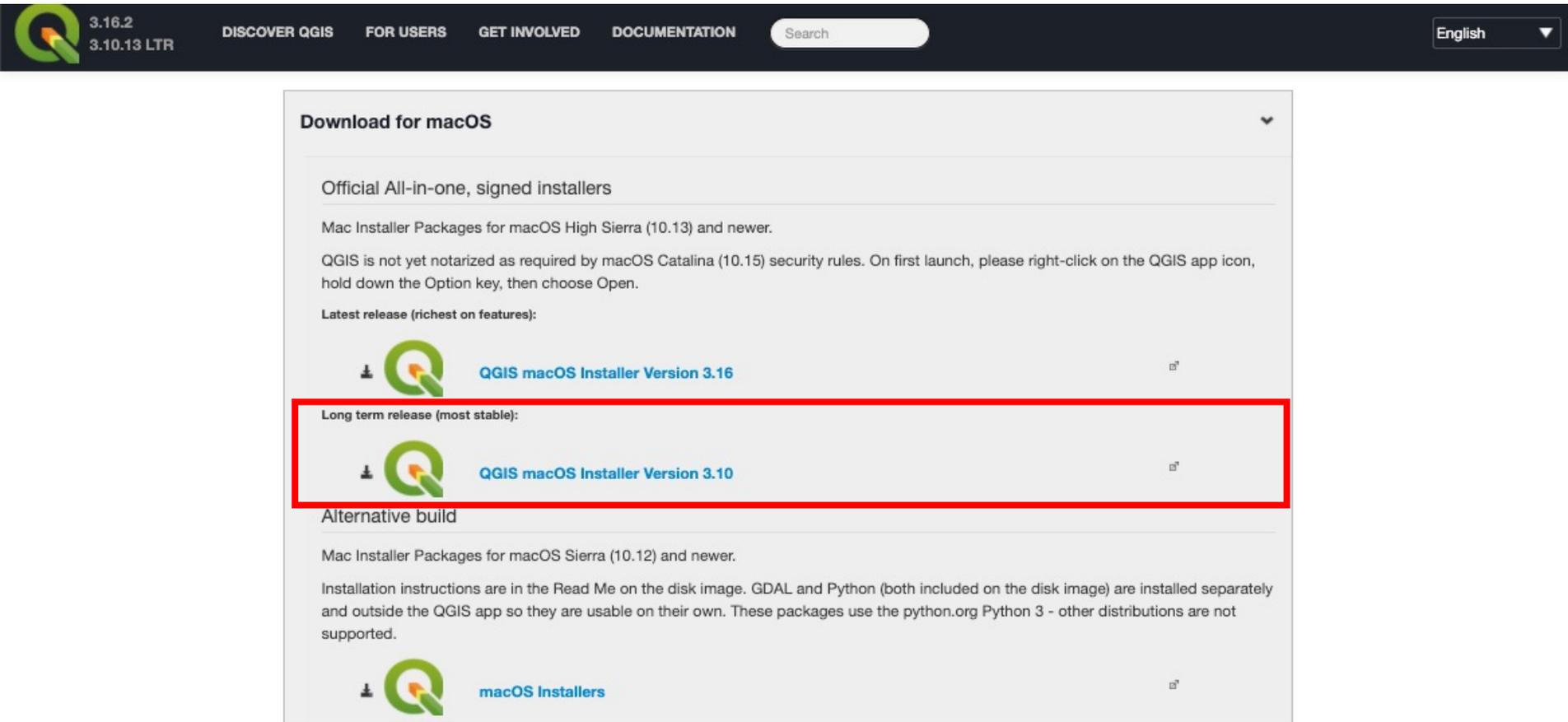


# Launching QGIS



If you see a window like this on your screen, you have launched QGIS successfully!

Double click on the QGIS icon on your desktop, and launch QGIS. It can take sometime. Please be patient.



3.16.2  
3.10.13 LTR

DISCOVER QGIS FOR USERS GET INVOLVED DOCUMENTATION Search English

### Download for macOS

#### Official All-in-one, signed installers

Mac Installer Packages for macOS High Sierra (10.13) and newer.

QGIS is not yet notarized as required by macOS Catalina (10.15) security rules. On first launch, please right-click on the QGIS app icon, hold down the Option key, then choose Open.

**Latest release (richest on features):**

  [QGIS macOS Installer Version 3.16](#) 

**Long term release (most stable):**

  [QGIS macOS Installer Version 3.10](#) 

#### Alternative build

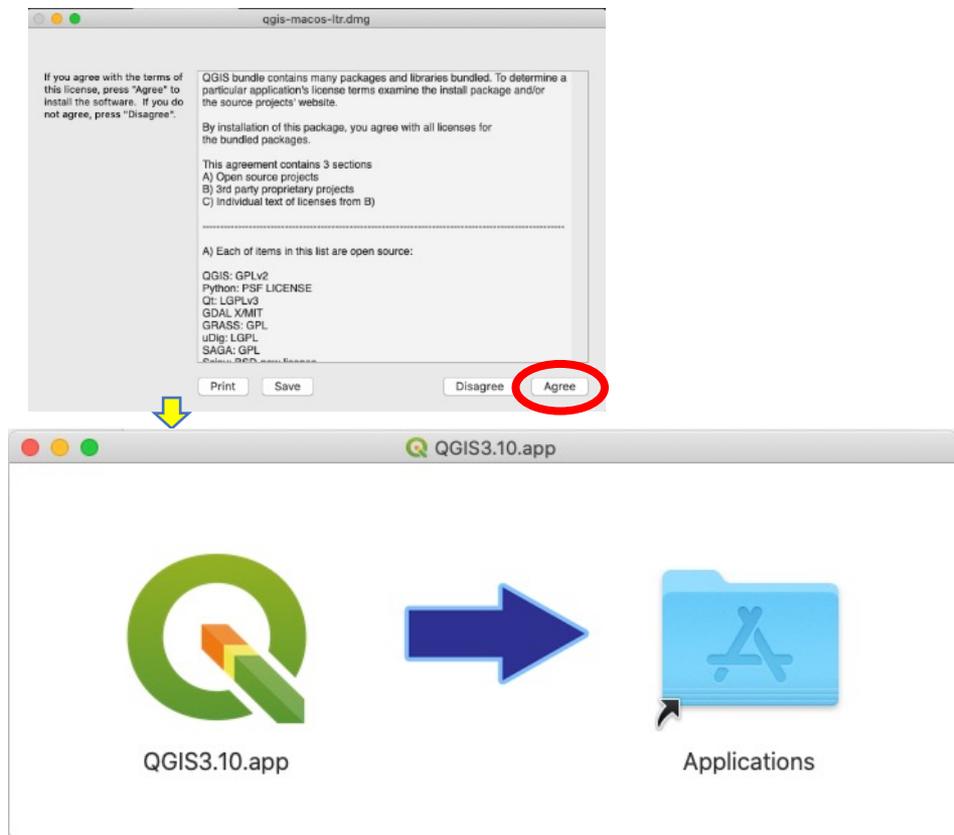
Mac Installer Packages for macOS Sierra (10.12) and newer.

Installation instructions are in the Read Me on the disk image. GDAL and Python (both included on the disk image) are installed separately and outside the QGIS app so they are usable on their own. These packages use the python.org Python 3 - other distributions are not supported.

  [macOS Installers](#) 

# Mac

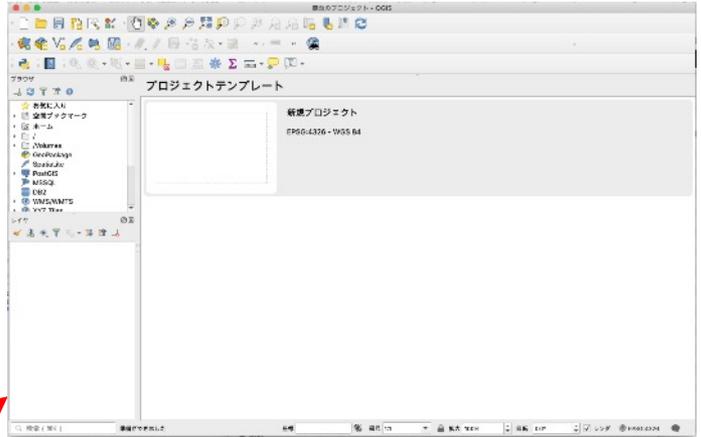
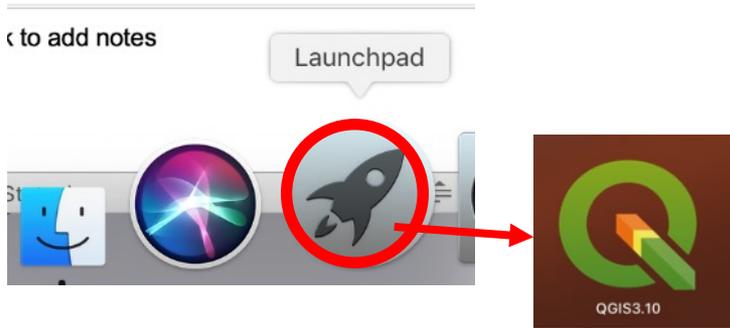
When the download is completed, double click on the downloaded dmg file. You will see a window like this. It may take sometime. Please be patient.



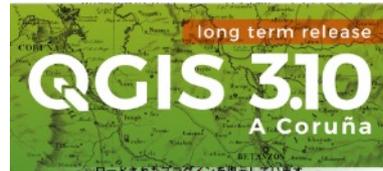
Drag & drop the green Q icon onto the Applications folder icon on the left.

# Launching QGIS

Open LaunchPad and click on the QGIS icon



If you see a window like this on your screen, you have launched QGIS successfully!



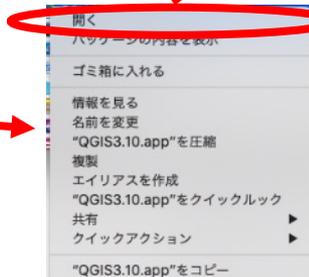
Click on "Show in Finder"



Click on "open"



Right-click on QGIS3.10



Select "open"

When you launch QGIS for the 2<sup>nd</sup> time and on, you can open it directly from LaunchPad