

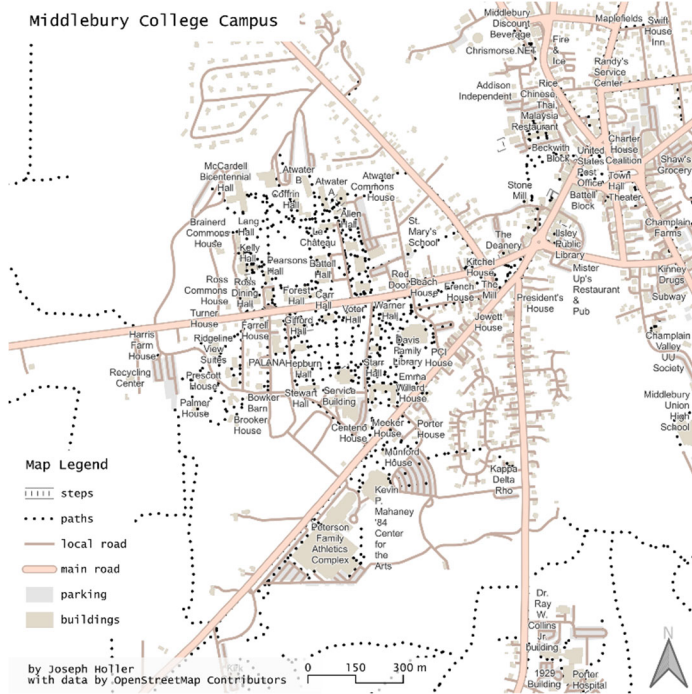
Lab: Mapping Campus with QGIS and OpenStreetMap

PURPOSE

- The learning goals are to:
 - Discover open source desktop GIS (QGIS and OpenStreetMap)
 - Learn to organize a GIS project
 - Learn to design a reference map

OUTCOME

- Organized GIS project and project backup
- Reference map of campus. The map should look analogous to the map below, but may be better!



GEOGRAPHY COMPUTER LAB INFORMATION

0. No eating or drinking in the labs. Water is allowed in tightly sealed containers.
1. Users may have to give up their computers during scheduled lab times. A schedule of weekly labs is posted on the outside of the doors.
2. Respect the equipment and do not move computers, monitors, cords or tables in the room. No reconfiguration of the space is allowed.
3. Keep the lab tidy and clean up after yourself.
4. If you need to charge your personal electronic devices, use the dedicated charging stations on the tables.
5. Sign out from the lab computers after every use.
6. Respect the honor code during independent problems.
7. Promptly report damage/issues/errors to the ASI*
8. There are two additional lab spaces on the 6th floor with identical computer setups
9. There is a print release station in room 639
10. Connecting to the W: drive from your own computer:

<https://www.middlebury.edu/college/academics/geography/student-resources/technology-support>

LAB PROCEDURE

Please find the course website page for this lab, which will contain a link to a video tutorial playlist.

1. Signing out of lab computers
2. QGIS software
3. Graphic User Interface (GUI)
4. QuickMapServices
5. QuickOSM
6. Query_OSM
7. Save Data and Browser Panel
8. Symbolize Polygons
9. Categorize Highways
10. Symbolize Routes
11. Label Buildings
12. Create Layout
13. Map Frames
14. Title and Credits
15. Scale and North Arrow
16. Legend
17. Saving and Backing up Project

AM I FINISHED?

- ☐ Project directory: **campus** in the **documents** folder with:
 - **copy_project.bat** batch file
 - QGIS .qgz project file
 - three subdirectories: **raw**, **derived**, and **results**
 - **campus.gpkg** geopackage file in the **raw** subdirectory contains all the layers needed for your map
 - image of campus map (.png or .jpg file) in the **results** subdirectory
- ☐ Backup copy of your whole project on the network drive W:\
- ☐ Checked with instructor
- ☐ Signed out of the computer but did not shut off the computer