

## 7.1 QGIS

QGIS (or Quantum GIS) is a free and open source geographic information system (GIS) program. GIS programs allow users to display, manage, and analyze geospatial information on the computer, and create map products. Geospatial data that can be used in GIS includes aerial imagery, GPS data, and spatial datasets.

### Skills and Technology Needed

- Computer with
  - Windows, Mac, or Linux operating system
  - Sufficient free disk space (approx 10GB) and administrator rights to install software
- Geospatial data
- Recommended: computer mouse

### Resources

- QGIS Training Manual: [https://docs.qgis.org/2.18/en/docs/training\\_manual/](https://docs.qgis.org/2.18/en/docs/training_manual/)
- QGIS Tutorials: [https://www.qgistutorials.com/en/docs/learning\\_resources.html](https://www.qgistutorials.com/en/docs/learning_resources.html)

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### Training Materials

- Introduction to Open Source GIS and QGIS
  - Presentation pdf | ppt
- Installing QGIS
- Navigating QGIS and Adding Data
  - Worksheet pdf | doc
  - Presentation pdf | ppt
- Plug-ins
- Creating maps in print composer
  - Worksheet pdf | doc
  - Presentation pdf | ppt
- Creating an Atlas