

# DoITT QGIS Training

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## Day 1

### Morning (9am to 1pm)

- Introductions (20 minutes)
- What is QGIS? (15 minutes)
  - History. Current state.
- Installing QGIS (5 minutes)
- What is open source software? (15 minutes)
  - History. Who uses it?
- Working with vector data (2.5 hours)
  - Opening vector data of various types
    - Shapefile
    - CSV
    - GeoJSON
    - Connecting to databases
  - Exporting vector data
  - Selecting vector data
  - Layers
  - Attribute table
  - Expressions
  - Projections
- Managing projects (30 minutes)

### Afternoon (2pm to 5pm)

- Styling vector data (1.5 hour)
  - Basic styles
  - Sharing styles between layers
  - Styling based on expressions
- Mapping density with heatmaps (30 minutes)
- Print composer (1 hour)

## Day 2

### Morning (9am to 1pm)

- Review and discuss questions from Day 1 (30 minutes)

- Geoprocessing (1 hour)
  - Clipping
  - Buffering
  - Writing Python scripts
- Combining data (2 hours)
  - Attribute joins
  - Spatial joins
  - Select by location
  - Count by location
- Editing and creating vector data (30 minutes)

## **Afternoon (2pm to 5pm)**

- Georeferencing (30 minutes)
- Working with raster data (1 hour)
  - Opening
  - Exporting
  - Vectorizing
  - Field calculator
- Plugin ecosystem (1 hour)
  - 3D mapping with the qgis2threejs plugin
  - Other plugins as time and interest allow
- Resources moving forward (30 minutes)
  - Asking for help online
  - Book recommendations
  - Blog and social media recommendations



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