A First Map in QGIS

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Geographic **I**nformation **S**ystem

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Why isn't it just called "mapping" software?
"Geographic Information" more accurately describes what the software does: Think of it like an extension to your spreadsheet software that lets you look at your data from a geographic perspective (if your data includes a geographic component).

GIS software you need to know the names of:

- GUI:
  - ArcGIS: expensive commercial GIS software made by ESRI
  - QGIS: Open-source free ArcGIS work-alike software made by volunteers
- (R and Python: programming languages, also open-source)

NYC Environment & Health Data Portal — PM 2.5 Map

Home > Data Explorer > **Air quality**

Change t

AIR QUALITY DATASETS:

CITYWIDE REGULATORY MONITORING

Air quality action days

Fine particles (PM 2.5) action days

Ozone action days

NEIGHBORHOOD AIR QUALITY

Black carbon

Fine particles (PM 2.5)

Nitric oxide (NO)

Nitrogen dioxide (NO2)

Ozone (O3)

Sulfur dioxide (SO2)

ABOUT AIR QUALITY

Air quality is a **measure of the condition of the air around us**. The less air pollution there is, the better the air quality.

Like many cities, New York City's air contains particles, liquid droplets, gases, and other contaminants that could impact health. Two pollutants, particulate matter and ground-level ozone, are of particular health concern.

Although New York City's air does not currently meet federal air quality standards, **it has improved significantly over the past two decades**.

Air Pollution and Health

Pollutants may affect human health negatively in a variety of ways. People may experience symptoms and health issues such as:

- Coughing

Fine particles (PM 2.5)

Fine particles are emitted by vehicles, building boilers, and other combustion - and are a major form of air pollution that harms health.

≣ Summary   📍 Map   📈 Trend   🔗 Links
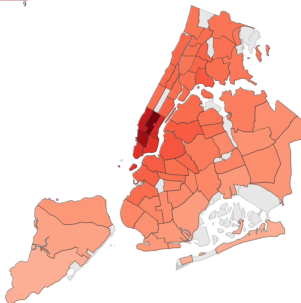
Measure ▾   Geography ▾   Time ▾
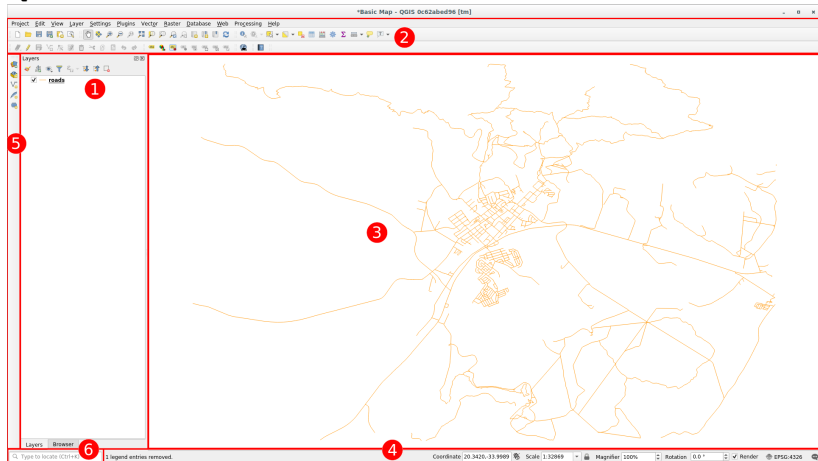
Fine particles (PM 2.5)

Mean (mcg/m3), by Neighborhood (Community District) (Annual Average 2022)

5   6   7   8   9

QGIS Main Window

1. Layers List / Browser Panel
2. Toolbars
3. Map canvas
4. Status bar
5. Side Toolbar
6. Locator bar

Go to QGIS