Summer School on Digital Humanities

Web site: https://bit.ly/dt4h-gis

Augusto Ciuffoletti

10 giugno 2025



• The user installs a GIS application on the PC



- In this scenario
- Quantum
- Runs on Windo

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  - First released in 2002.
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Add a Raster Background Laver

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  - In Labels, select Single label and choose the field for labeling the points (e.g., select the name field)



- Select the Demo layer and Layer -> Toggle editing
  - Or the pencil in the second toolbar

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Augusto Ciuffoletti

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- Modify attribute values as needed
- Press ctrl+s to save
- Add an Attribute ("desc") to the Features
- Right-click on the Born and salds Quen/Amillute Table

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  - Press ctritly to add a new relation and the New Field" button in the toolbar)
  - Set the name and type (e.g. "dese of type Text)
  - Click OK



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For each point compute a new field with distance from Rome in degrees

- Select a layer and click the Open Attribute Table button in the toolbar
- Click ctrl+i or the abacus icorrin the attribute lable window
- Input a name find the new field (e.g., Lat)
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- Enter the following formula in the Expression box

distance(@geometry, make\_point(12.5, 41.9))

• The distance function takes two



For each point compute a new field with distance from Rome in degrees

- Select a layer and click the Open Attribute Table button in the toolbar
- Click CTRL+I or the abacus icon in the attribute table window
- Input a name for the new field (e.g., Lat)
- Choose a type for the field (e.g., *Decimal Number*)
- Enter the following formula in the Expression box

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  - egeometry is the one corresponding to the row in the table
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#### Save Your Work

- Save the project in QGIS native format (Ctrl+S or Project -> Save)
  - Export as an image (Project -> Import/Export -> Export Map to Image)
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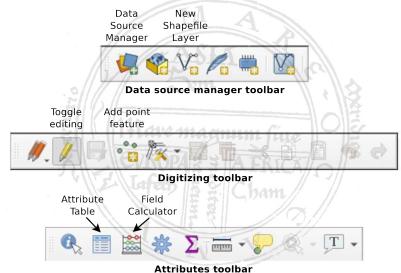
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- Export in a portable vector format (Project -> Export DXF)

# GUI Toolbar Icons (Quick Reference)



# Lab Activity

- (Basic) North of La Spezia, there is a region called "Cinque Terre".
   The name comes from five fishing villages: Corniglia, Manarola,
   Vernazza, Monterosso, and Riomaggiore. Set a Point for each
   village and display a label with its name on the map.
- (Intermediate) Draw a sea route visiting all the villages, starting from Levanto (another small town to the north). For this create a new LineString vector, enable editing, select Add Linear Element and mark waypoints with the left button. Right button to close the LineString.
- (Intermediate) Convert the line to a new layer of vertices using Vector -> Geometry Tools -> Extract Vertices
- (Advanced) Compute the longitude and latitude of these points, and label each one with a string "(long, lat)" using the concat function in the calculator.

