

# ASOR Cultural Heritage Initiative

**QGIS** 

Module 02.15: Edit Data Layers

Jared Koller | William Raynolds



## ASOR QGIS Module 02.15 – Edit Data Layers

QGIS is a free and open source Geographic Information System (GIS), or geodatabase, licensed under the GNU General Public License. QGIS runs on Linux, Unix, Mac OSX, Windows and Android and supports numerous vector, raster, and database formats and functionalities. Download QGIS here: <a href="https://ggis.org/">https://ggis.org/</a>.

QGIS users can view, edit, and analyze spatial information through its free software toolkit.

This ASOR Tutorial (02.15) provides an overview of advanced layer features.

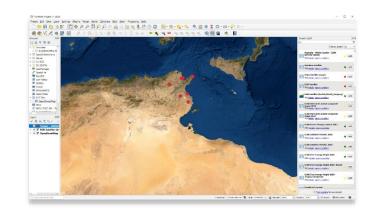
#### KEY CONCEPTS

- Layer Management Tools: Users can rename, duplicate, delete, and export layers in QGIS by right-clicking the layer name. These tools help organize and maintain data efficiently within a project.
- Scale Visibility: Layers can be set to appear only at specific zoom levels using "Set Layer Scale Visibility," ensuring maps remain clear and uncluttered when zoomed in or out.
- Symbology and Labeling: The *Layer Properties* window allows users to adjust visual styles (color, size, opacity) and add labels drawn from attribute data, enabling clear, customized map presentations.
- ♦ Design and Communication: All layer types—vector, raster, and elevation—are editable in QGIS. Users should thoughtfully design maps to effectively convey spatial information and data relationships.

#### LAYERS | ADVANCED FEATURES

Open a new project.

Add a basemap and the Tunisian UNESCO vector layer.

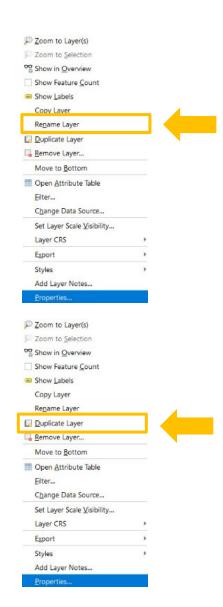


## Rename Layers

Right click on layer > Rename Layer

### **Duplicate Layers**

Right click on layer > Duplicate Layer



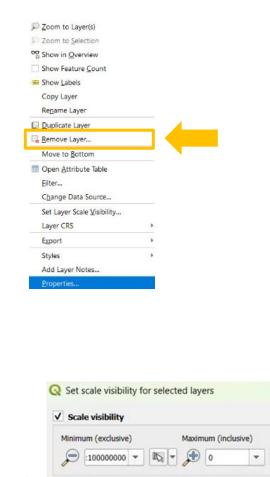
#### Delete Layers

Right click on layer > Remove Layer

#### Scale Visibility

Right click on layer > Set Layer Scale Visibility...

By setting a minimum and maximum scale, you can ensure a layer only appears at certain zoom levels, preventing it from becoming cluttered or obscuring other important features when the map is zoomed out or too detailed when zoomed in.



OK

Cancel

Zoom to Layer(s)

Zoom to Selection
Show in Overview
Show Feature Count
Show Labels

Copy Layer

Rename Layer

Duplicate Layer

Remove Layer...

Filter...

Layer CRS Export

Styles

Move to Bottom

Open Attribute Table

Change Data Source

Add Layer Notes...

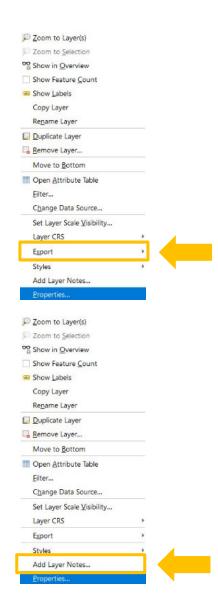
Set Layer Scale Visibility...

### **Export Layers**

Right click on layer > Export

### Layer Notes

Right click on layer > Add Layer Notes



### Properties

Right click on layer > Properties

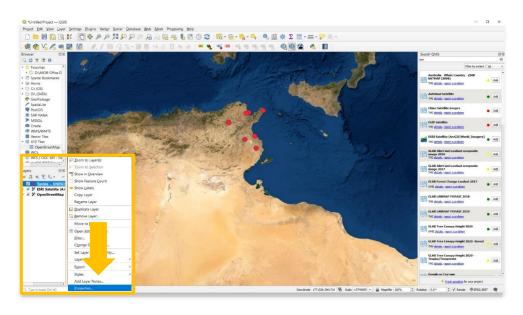
Or

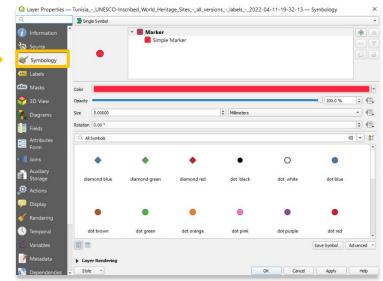
Double-click on the layer

## Symbology

A pop-up window will appear. You can use the menu bar on the left for different purposes.

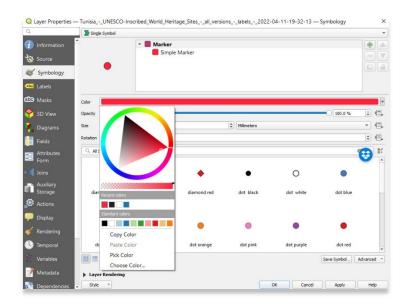
Select Symbology.

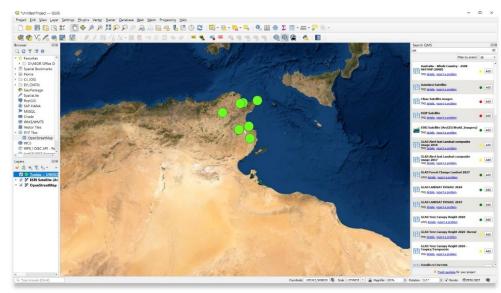




Users can adjust the size, color, and opacity of points, lines, and polygons through the Symbology tab.

Once done, press **OK** to view the changes made to your layer.

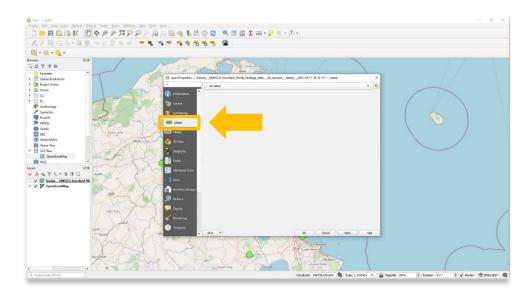


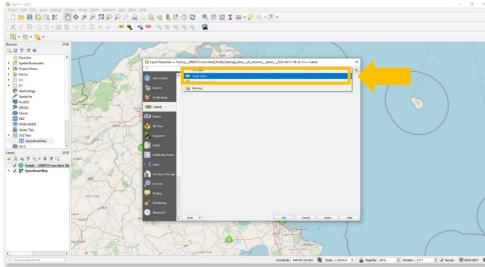


## Adding Labels

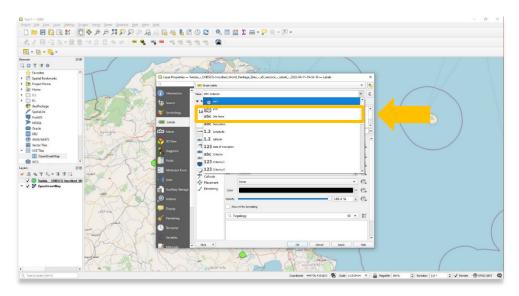
Users can add labels to any layer. Labels are taken from the Attribute Table. Double-click on the layer to open the Layer Properties. Select Labels in the right menu.



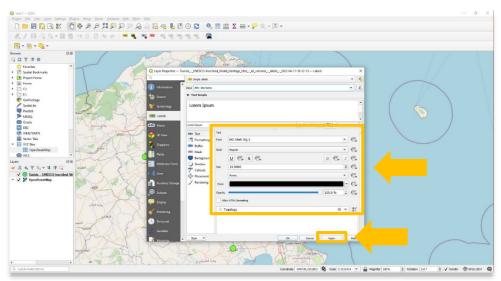




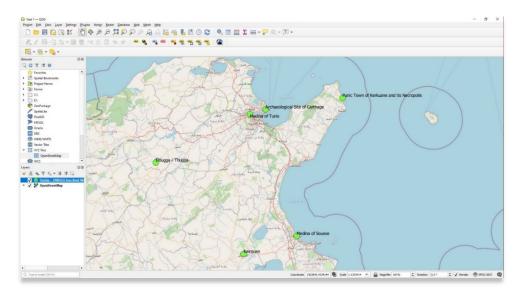
Select the value you wish to display as a label on your map. In this example, choose Site Name.



Users can style the label font, size and, position before selecting **Apply**.

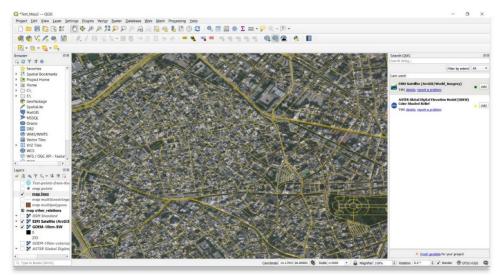


Close the **Layer Properties**, and you will now see labels for every point for the Tunisian UNESCO Heritage Site point layer.



Any type of layer is editable in QGIS, including vectors, rasters, and elevation models.

Significant thought should be put into how to design and effectively convey spatial information in GIS, especially when creating maps or visualizations to share.



#### **RESOURCES**

QGIS Download: <a href="https://qgis.org/">https://qgis.org/</a>



#### VIEW ALL ASOR TUTORIALS FOR FREE

asor.org/chi/chi-tutorials