

Basic Vector Styling

QGIS Tutorials and Tips



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Geographic Information Systems (GIS) and Remote Sensing

Geographic Information Systems (GIS) and Remote Sensing are tools used to collect, store, analyze, and display spatial data. GIS is a computer-based system that allows users to create maps and analyze spatial data. Remote Sensing is the process of obtaining information about the Earth's surface from a distance, typically using satellite imagery. Both GIS and Remote Sensing are used in a variety of applications, including urban planning, environmental management, and disaster response.

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<<http://www.sage.wisc.edu/atlas/maps.php>> _

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lifeexpectancy.zip

Geographic Information Systems (GIS) and Remote Sensing [SAGE]

Geographic Information Systems (GIS)

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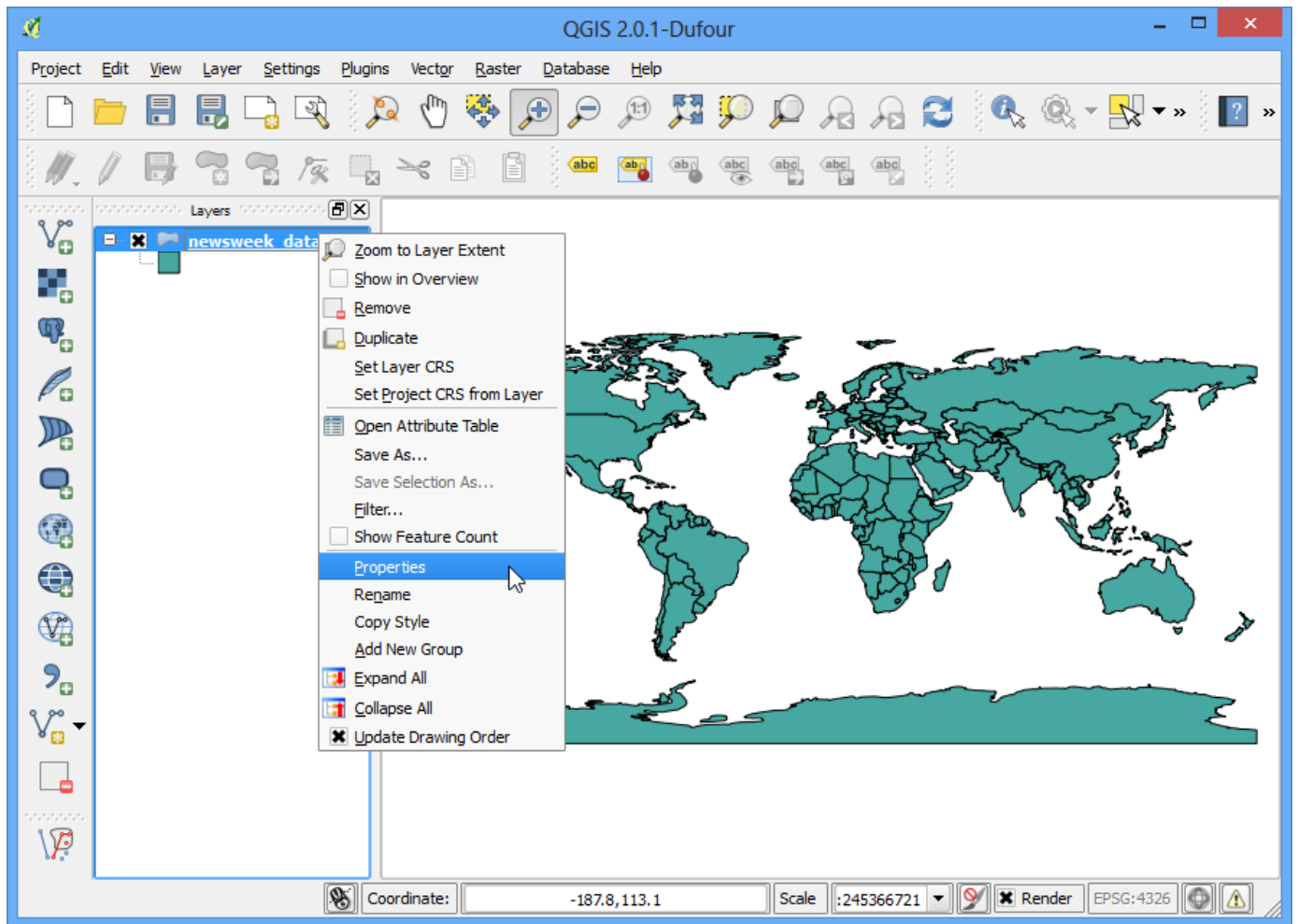
2. ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■ lifeexpectancy.zip ■ ■■■■■■■■ ■■■■■■■■■■. ■■■■■■■■■■ newswk_data.shp ■ ■■■■■ ■■■■■■■■■■ ■■■■■■■■■■. ■■■■■ ■■■■■ ■■■■■■■■■■ ■■■■. ■■■■■■■■■■ WGS84 EPSG:4326 ■ ■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■ (■■■■).



3. **WGS 84** is the most common CRS used for web maps. It is a geocentric CRS, meaning that the origin is at the center of the Earth. The datum is WGS 84, and the projection is a pseudo-cylindrical projection called the Mercator projection. The units are in meters.



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7.

The first step in the process of creating a new layer is to define the data source. This can be done by clicking on the 'Add New Layer' button in the Layers panel. Once the data source is defined, the next step is to define the layer's properties. This includes setting the layer's name, color, and style. The final step is to add the layer to the map. This can be done by clicking on the 'Add Layer' button in the Layers panel.



8.

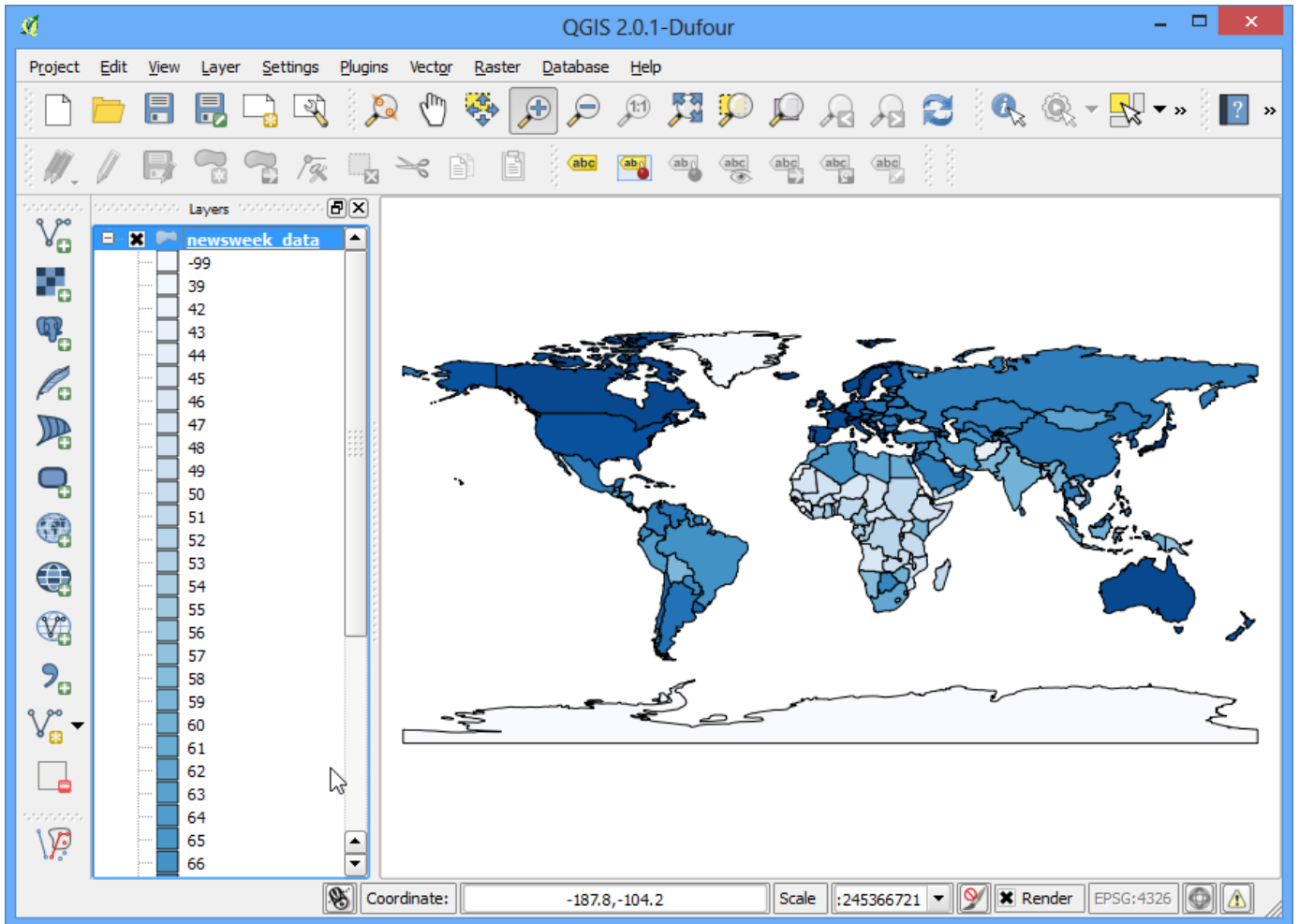
The 'Layer Properties' dialog box is used to configure the appearance of a layer in the map. It contains several tabs, including 'General', 'Style', 'Labels', 'Fields', 'Display', 'Actions', 'Joins', 'Diagrams', and 'Metadata'. The 'Style' tab is currently selected, showing options for 'Layer rendering' (transparency, blending mode) and 'Symbol layers'. A dropdown menu is open for the 'Single Symbol' layer, showing options like 'Single Symbol', 'Categorized', 'Graduated', 'Rule-based', and 'Point displacement'. The 'Symbol layers' section shows a 'Fill' layer with a 'Simple fill' symbol. The 'Saved styles' section displays various predefined styles like 'corners', 'diagonal', 'dotted', 'green', 'land', 'water', and 'wine'. At the bottom are buttons for 'Restore Default Style', 'Save As Default', 'Load Style ...', 'Save Style', 'OK', 'Cancel', 'Apply', and 'Help'.



10. The first step in the process of creating a new layer is to define the data source. This can be done by clicking on the 'Add New Layer' button in the Layers panel. The next step is to select the data source type, which in this case is a vector layer. After selecting the data source type, the user is prompted to select the data source file. The user should navigate to the location of the data source file and select it. Once the data source file is selected, the user is prompted to define the layer's name and properties. The user should enter a name for the layer and select the appropriate properties. Finally, the user should click on the 'OK' button to add the layer to the map.



11. The 'Layer Properties' dialog box is used to modify the style of a layer. The 'Style' tab is used to select a style and a color ramp. The 'Classify' button is used to create a new style based on the values in the 'Column' dropdown. The 'OK' button is used to apply the changes.



12. **Graded** **Style** **classes** **Column** **Mode options** available. **Equal**, **Quantile**, **Natural** (Jenks), **Standard** **Pretty** **classes** **Column** **Mode options** available.

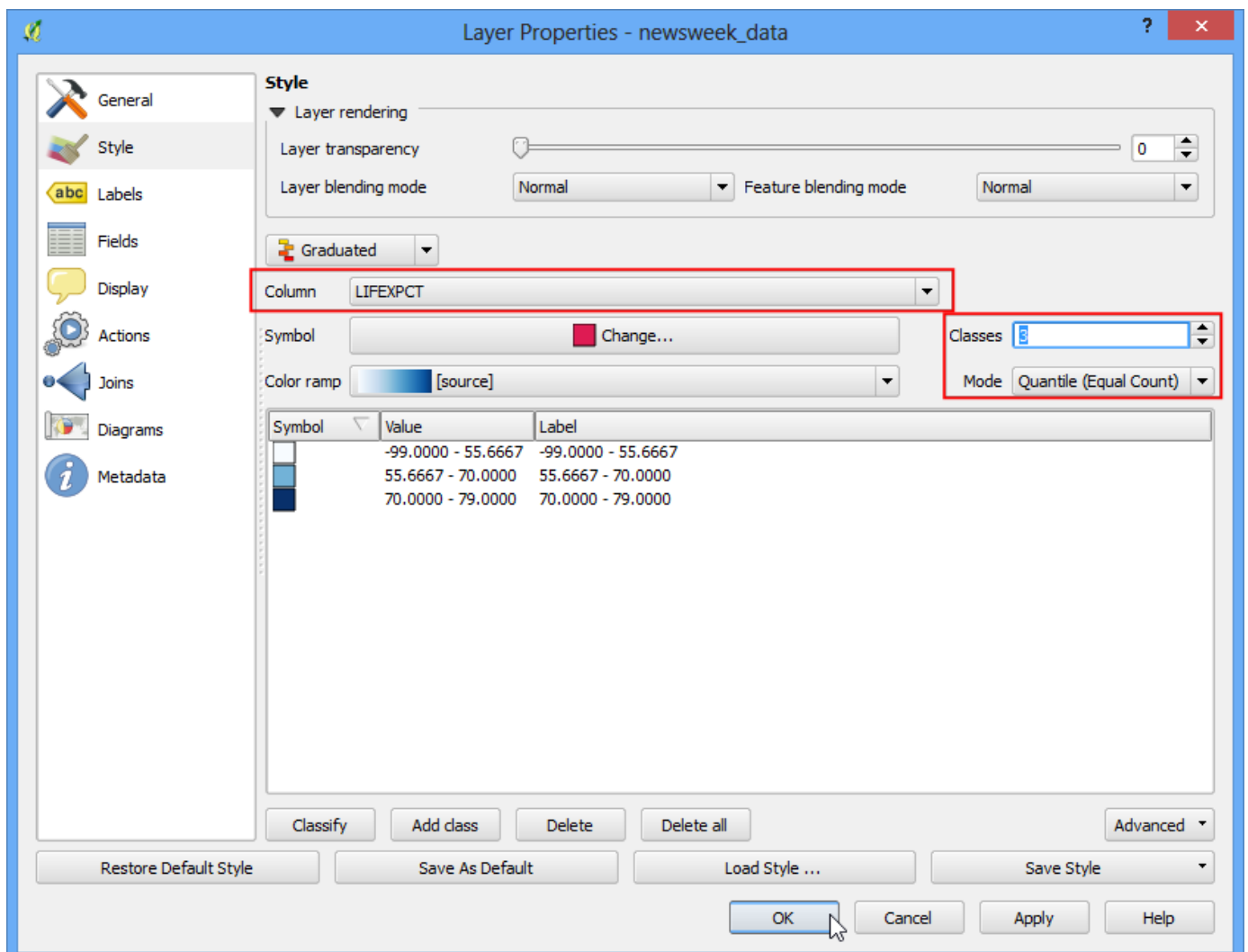
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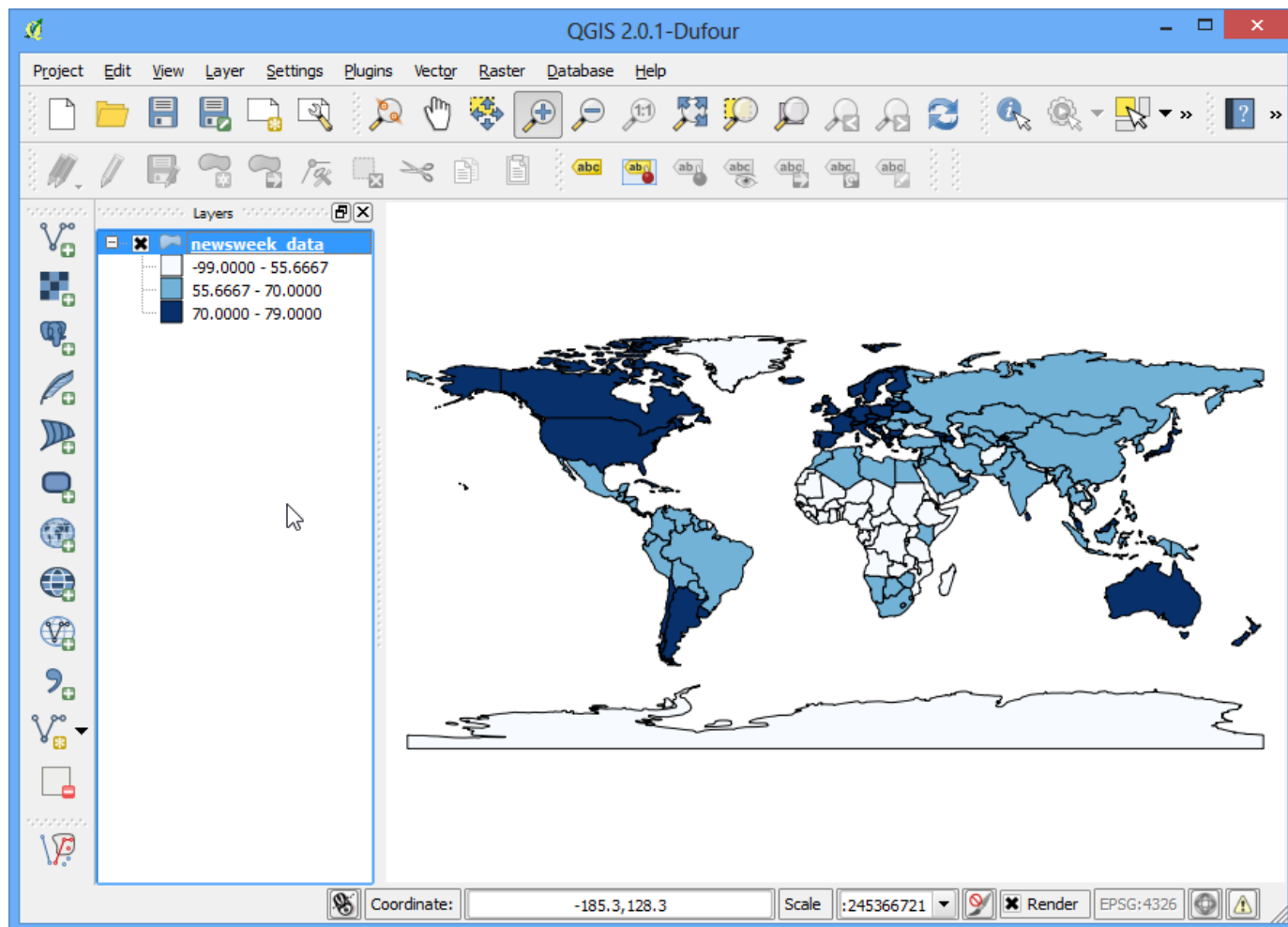
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14. The following table shows the number of new cases of COVID-19 reported in the United States by state for the week ending March 22, 2020. The data is presented in a table with 5 columns: State, New Cases, Total Cases, Deaths, and Population. The states are listed in descending order of new cases.



18. The following table shows the results of the classification of the 'LIFEXPCT' variable. The 'HIGH' class is selected. The 'OK' button is highlighted.

