

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. QGIS is a free and open-source GIS software package that provides a robust framework for GIS data management and analysis. It is used by a wide range of users, from students to professionals, and is available on a variety of operating systems.

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lifeexpectancy.zip

Geographic Information Systems (GIS) [SAGE]

Geographic Information Systems (GIS) and Remote Sensing

1. Geographic Information Systems (GIS) and Remote Sensing are tools used to collect, store, analyze, and display spatial data...



2. lifeexpectancy.zip newsweek_data.shp WGS84 EPSG:4326 ().



3. **CRS Selection**, **Coordinate Reference System** **WGS 84**, **Authority ID** **EPSG:4326**, **Selected CRS:** **WGS 84**, **PROJ string** **+proj=longlat +datum=WGS84 +no_defs**.



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5. **newweek_data** is a vector layer. It contains a table with the following fields: **LIFEXPCT**, **Life Expectancy** - **newweek_data**.

Attribute table - newswk_data :: Features total: 165, filtered: 165, selected: 0

	GRWRATE	URBPOP	MIG_RATE	POP_15	POP65_	LIFEXPCT	CONTRCEP
0	2.620000000	47.000000000	0.000000000	45.200000000	3.800000000	47.000000000	7.000000000
1	2.660000000	33.000000000	0.000000000	44.900000000	3.100000000	42.000000000	4.000000000
2	1.900000000	53.000000000	-0.400000000	33.200000000	5.100000000	76.000000000	58.000000000
3	0.940000000	35.000000000	-9.900000000	32.300000000	4.000000000	65.000000000	31.000000000
4	3.320000000	46.000000000	2.200000000	46.000000000	3.700000000	55.000000000	6.000000000
5	3.170000000	44.000000000	0.500000000	48.100000000	2.800000000	52.000000000	1.000000000
6	3.360000000	32.000000000	-0.100000000	48.000000000	2.500000000	50.000000000	8.000000000
7	3.400000000	5.000000000	0.700000000	49.800000000	2.300000000	46.000000000	10.000000000
8	2.880000000	8.000000000	0.000000000	46.300000000	2.900000000	48.000000000	9.000000000
9	3.720000000	29.000000000	-0.200000000	47.100000000	2.900000000	46.000000000	1.000000000
10	2.840000000	49.000000000	-0.100000000	48.500000000	2.200000000	49.000000000	1.000000000
11	3.310000000	15.000000000	-7.700000000	49.200000000	2.600000000	45.000000000	7.000000000
12	2.370000000	51.000000000	-0.100000000	39.700000000	3.900000000	59.000000000	30.000000000
13	2.830000000	27.000000000	32.000000000	44.900000000	3.300000000	47.000000000	4.000000000
14	2.970000000	25.000000000	-0.300000000	44.600000000	2.800000000	60.000000000	43.000000000
15	3.180000000	33.000000000	0.000000000	45.000000000	3.400000000	58.000000000	26.000000000
16	1.550000000	84.000000000	0.000000000	30.500000000	6.400000000	72.000000000	43.000000000
17	2.920000000	25.000000000	0.000000000	44.900000000	3.300000000	68.000000000	33.000000000
18	2.690000000	46.000000000	0.000000000	39.600000000	3.600000000	67.000000000	48.000000000
19	2.370000000	60.000000000	0.200000000	37.500000000	4.000000000	62.000000000	48.000000000
20	2.680000000	30.000000000	0.000000000	42.500000000	3.100000000	57.000000000	20.000000000
21	2.470000000	9.000000000	0.000000000	40.700000000	3.900000000	56.000000000	5.000000000

Show All Features

6. **GRWRATE** **URBPOP** **MIG_RATE**. **POP_15** **POP65_** **LIFEXPCT** **CONTRCEP**
GRWRATE **URBPOP** **MIG_RATE** **POP_15** **POP65_** **LIFEXPCT** **CONTRCEP**.



7. The screenshot shows the QGIS 2.0.1-Dufour interface. The main window displays a world map with a teal-colored landmass. On the left, the 'Layers' panel shows a single layer named 'newweek_data'. A right-click context menu is open over this layer, listing various actions. The 'Properties' option is highlighted by the mouse cursor. The bottom status bar indicates the current coordinate is -187.8, 113.1, the scale is 1:245366721, and the coordinate reference system is EPSG:4326.



8. The 'Layer Properties' dialog box is used to configure the appearance of a layer in a map. It contains several tabs, including 'General', 'Style', 'Labels', 'Fields', 'Display', 'Actions', 'Joins', 'Diagrams', and 'Metadata'. The 'Style' tab is used to define the visual representation of the layer's data. This includes setting the layer's transparency, blending mode, and the type of symbol used to represent the data. The 'Symbol' section allows users to choose from various symbol types (e.g., Single Symbol, Categorized, Graduated, Rule-based, Point displacement) and to select a specific symbol from a list of predefined styles. The 'Symbol layers' section shows the current symbol and its properties, such as fill color and stroke. The 'Saved styles' section provides a gallery of predefined symbols for quick selection. At the bottom of the dialog, there are buttons for 'Restore Default Style', 'Save As Default', 'Load Style ...', 'Save Style', 'OK', 'Cancel', 'Apply', and 'Help'.

9. **THE UNITED STATES, BY AND THROUGH THE ATTORNEY GENERAL, REQUESTS THAT THE COURT GRANT IT PERMISSION TO FILE A MOTION TO DISMISS THE COMPLAINT.**



10. The first step in the process of creating a map is to define the data. This is done by specifying the data source and the variables to be displayed. In this case, the data source is the 'newweek_data' layer, and the variables are the 'LIFEXPCT' and 'LIFEXPCT' variables. The next step is to define the map's extent and scale. This is done by specifying the coordinate system and the scale factor. In this case, the coordinate system is EPSG:4326, and the scale factor is 245366721. The final step is to render the map. This is done by clicking the 'Render' button in the bottom status bar.

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-: R's pretty algorithm.
-: R's pretty algorithm.

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Note

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Layer Properties - newweek_data

General Style Labels Fields Display Actions Joins Diagrams Metadata

Style

Layer rendering

Layer transparency 0

Layer blending mode Normal Feature blending mode Normal

Graduated

Column LIFEXPCT

Symbol Change...

Color ramp [source]

Classes 3

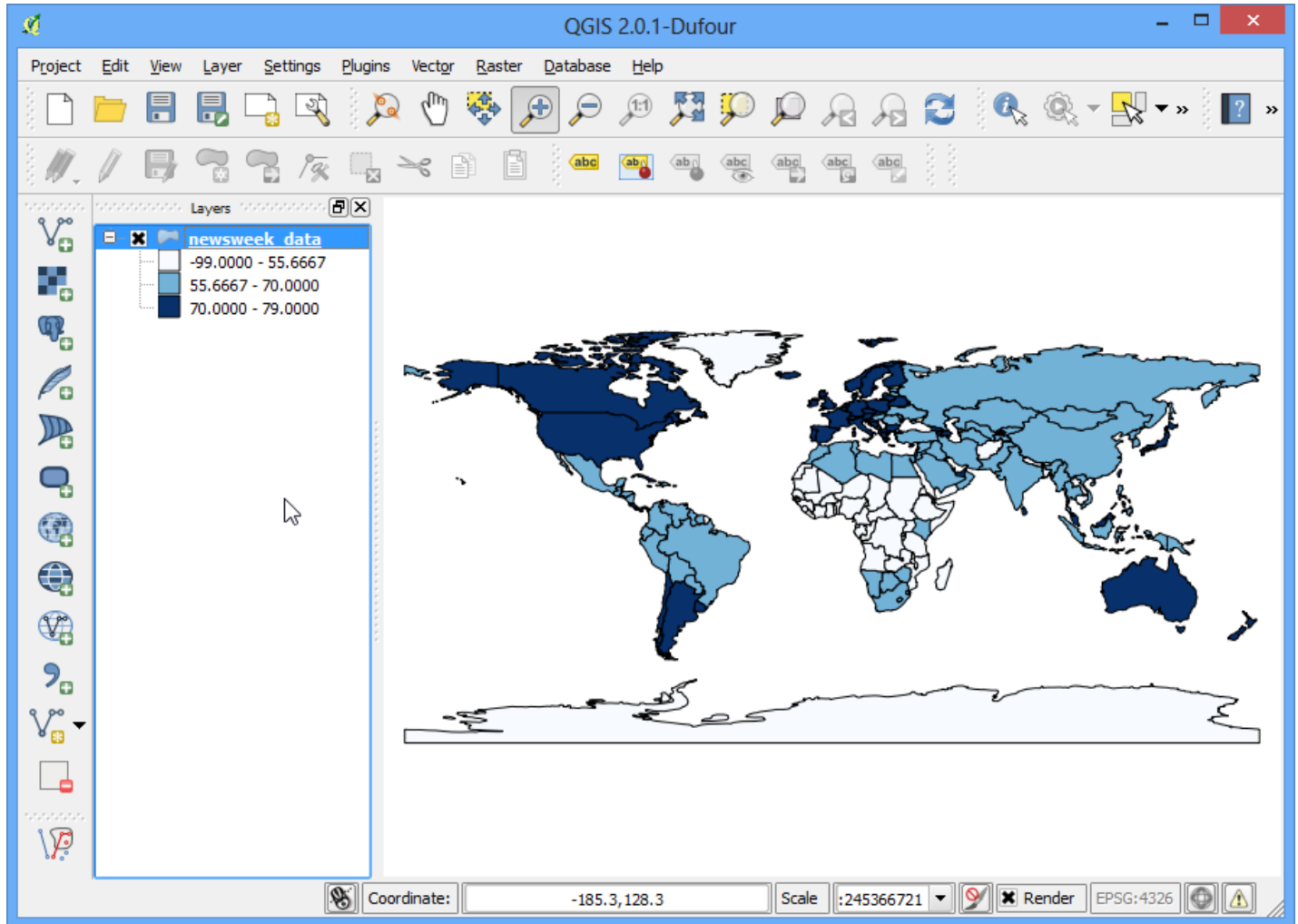
Mode Quantile (Equal Count)

Symbol	Value	Label
	-99.0000 - 55.6667	-99.0000 - 55.6667
	55.6667 - 70.0000	55.6667 - 70.0000
	70.0000 - 79.0000	70.0000 - 79.0000

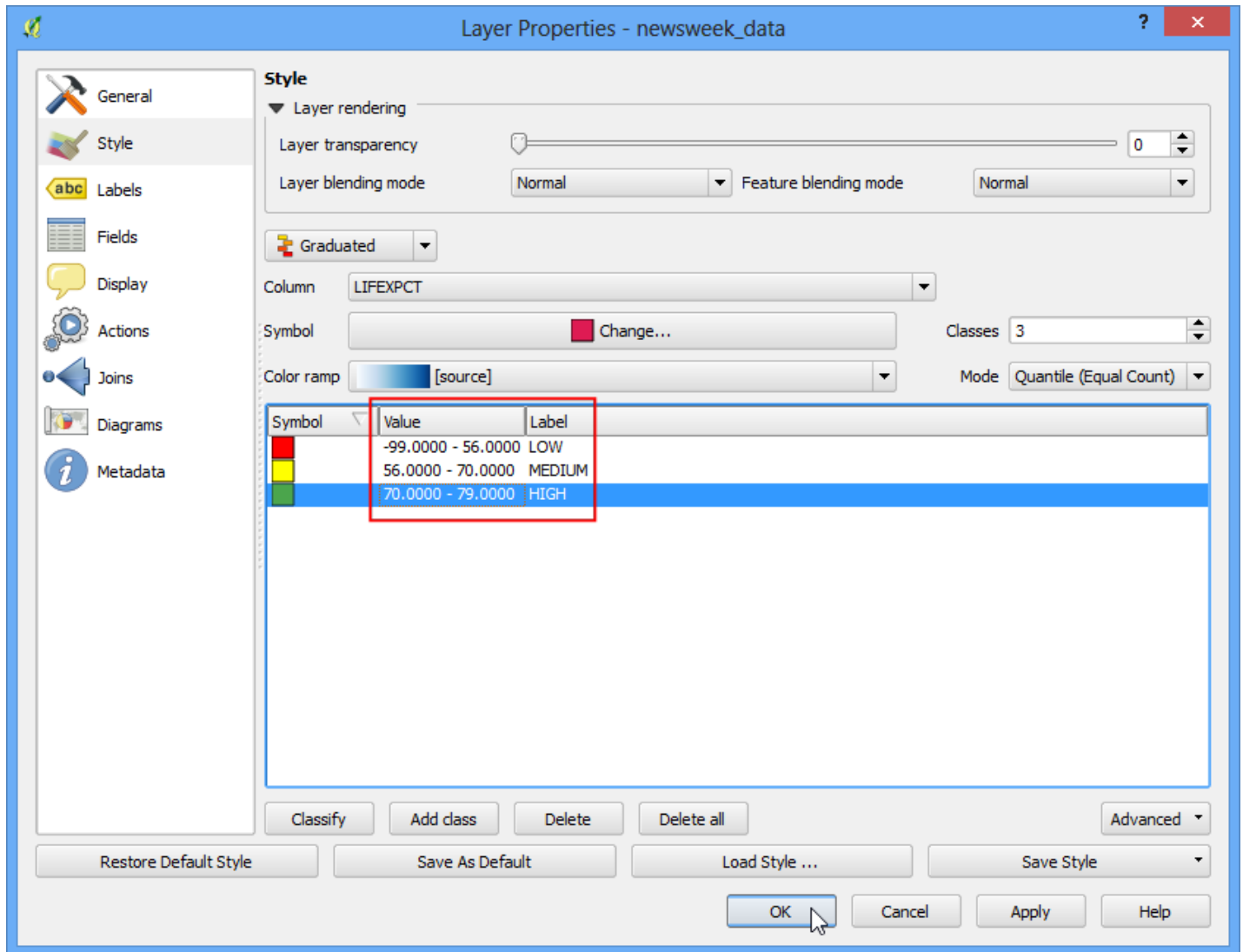
Classify Add class Delete Delete all Advanced

Restore Default Style Save As Default Load Style ... Save Style

OK Cancel Apply Help

[illegible]

14. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED], [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
[REDACTED] [REDACTED] [REDACTED]. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]. [REDACTED] [REDACTED]
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]. [REDACTED]
[REDACTED] [REDACTED] [REDACTED], [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED], [REDACTED]
[REDACTED] [REDACTED], [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED].

[illegible]

18. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED], [REDACTED]
[REDACTED] [REDACTED] [REDACTED]. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED], [REDACTED] [REDACTED] [REDACTED]
[REDACTED] [REDACTED].

