Basic Vector Styling

QGIS Tutorials and Tips

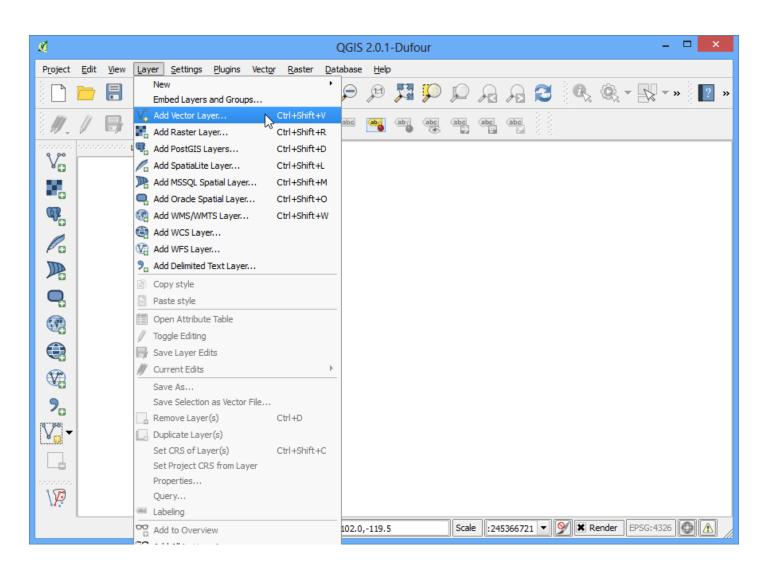


Author Ujaval Gandhi

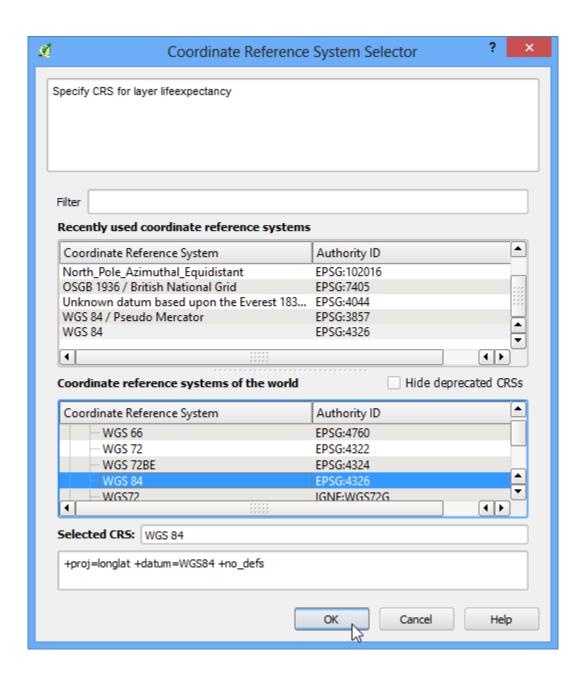
http://google.com/+UjavalGandhi

Translations by Phondanai Khanti

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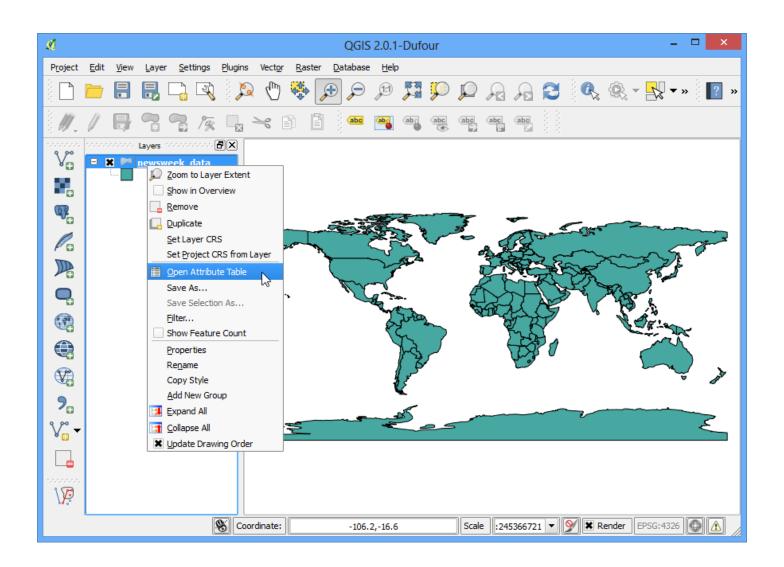


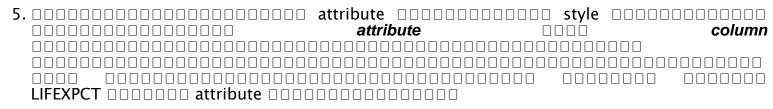


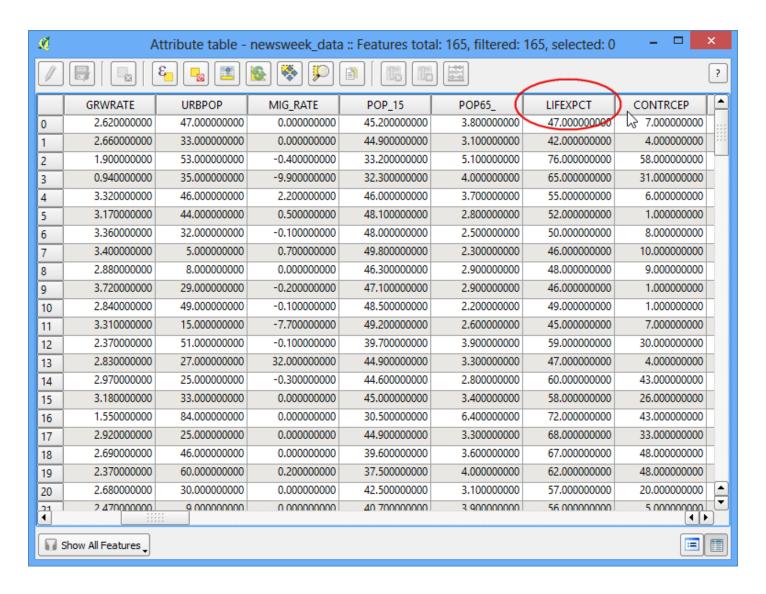


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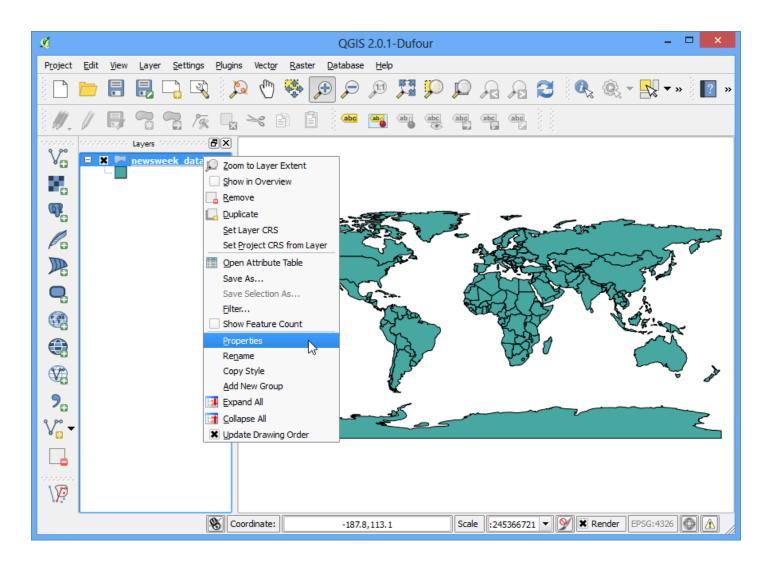








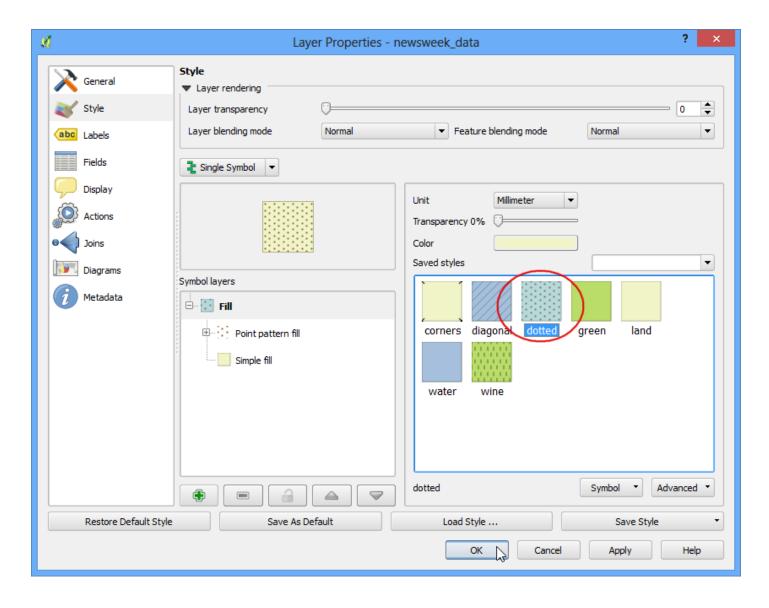
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8. Select Single Symbol. This option allows you to choose a single style that will be applied to all the features in the layer. Since this is a polygon dataset, you have two basic choices. You can *fill* the polygon, or you can style with only *outline*. You can choose the dotted pattern fill and click OK.





10. You will see that this Single Symbol style isn't useful in communicating the life expectancy data we are trying to map. Let us explore another styling option. Right-click the layer again and choose Properties. This time choose Categorized from the Style tab. Categorized means the features in the layer will be shown in different shades of a color based on unique values in an attribute field. Choose LIFEXPCT value as the Column. Choose a color ramp of your choice and click Classify at the bottom. Click OK.



11. You will see different countries appearing in shades of blue. Lighter shades meaning lower life expectancy and darker shades meaning higher life expectancy. This representation of the data is more useful and clearly show how life expectancy in developed countries vs. developing countries. This would be the type of style we set out to create.



- 12. Let us explore the Graduated symbology type in the Style dialog now. Graduated symbology type allows you to break down the data in a column in unique classes and choose a different style for each of the classes. We can think of classifying our life expectancy data into 3 classes, LOW, MEDIUM and HIGH. Choose LIFEXPCT as the Column and choose 3 as the classes. You will see there are many Mode optionsa vailable. Let us see the logic behind each of these modes. There are 5 modes available. Equal Interval, Quantile, Natural Breaks (Jenks), Standard Deviation and Pretty Breaks. These modes use different statistical algorithms to break down the data into separate classes.
 - Equal Interval: As the name suggests, this method will will create classes which are at the same size. If our data ranges from 0-100 and we want 10 classes, this method would create a class from 0-10, 10-20, 20-30 and so on, keeping each class the same size of 10 units.
 - Quantile This method will decide the classes such that number of values in each class are the same. If there are 100 values and we want 4 classes, quantile method will decide the classes such that each class will have 25 values.
 - Natural Breaks (Jenks) This algorithm tries to find natural groupings of data to create classes. The resulting classes will be such that there will be maximum variance between individual classes and least variance within each class.
 - Standard Deviation This method will calculate the mean of the data, and create classes based on standard deviation from the mean.

Pretty Breaks – This is based on the statistical package R's pretty algorithm. It is a
bit complex, but the *pretty* in the name means it creates class boundaries that are
round numbers.

To keep things simple, let's use the Quantile method. Click Classify at the bottom and you will see 3 classes show up with their corresponding values. Click OK.

Note

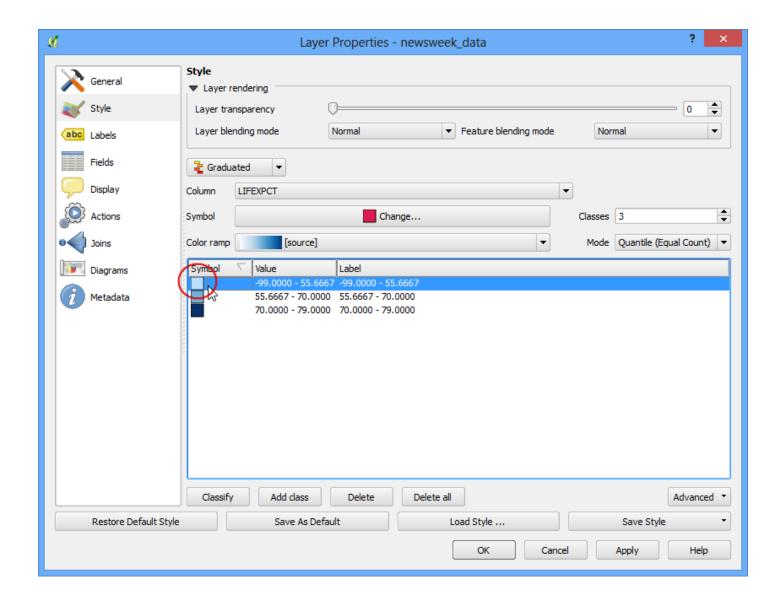
For an attribute to be used in Graduated style, it must be a numeric field. Integer and Real values are fine, but if the attribute field type is String, it cannot be used with this styling option.

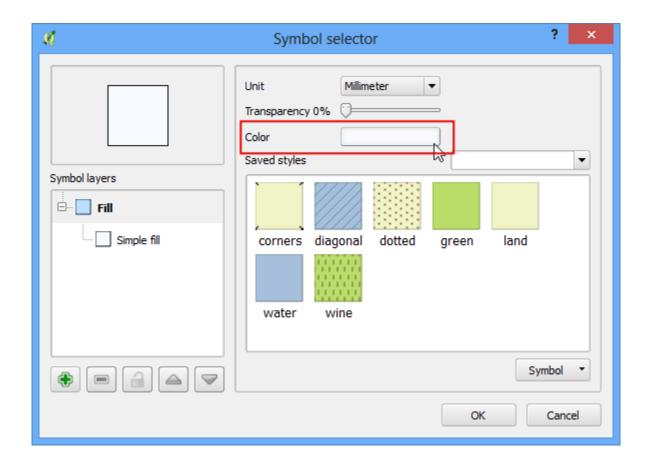


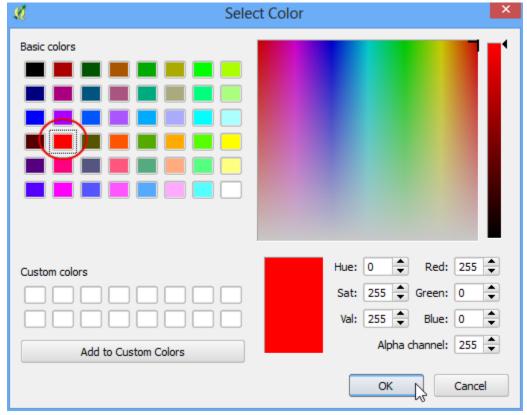
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14. Now go back to the Style dialog by right clicking the layer and choosing Properties. There are some more styling options available. You can click on the Symbol for each of the classes and choose a different style. We will choose Red, Yellow and Green fill colors to indicate low, medium and high life expectancy.







17. Back in the Layer Properties dialog, you can double-click on the Label column next to each value and enter the text that you want to display. Similarly, you may double-click on the Value column to edit the selected ranges. Click OK once you are satisfied with the classes.



18. This style definitely conveys a lot more useful map than the previous two attempts. There are clearly marked class names and colors to represent our interpretation of the life expectancy values.

