

Calculating Line Lengths and Statistics

QGIS Tutorials and Tips



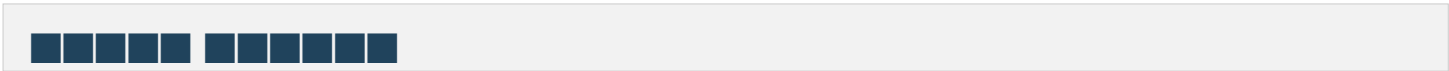
Author

Ujaval Gandhi

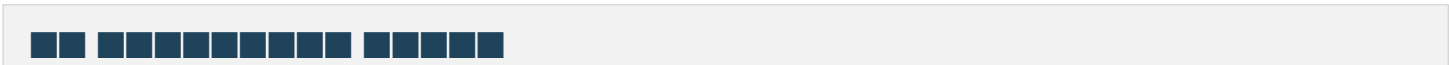
<http://google.com/+UjavalGandhi>

Translations by

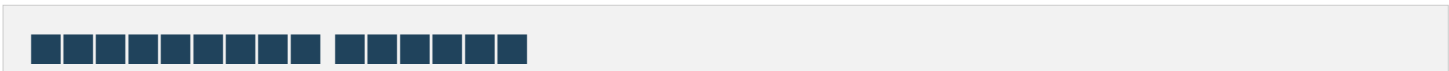
Marina Pavlova Ilya Trofimov Fayçal Fatihi

[illegible]

THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE BY THE MARKINGS.

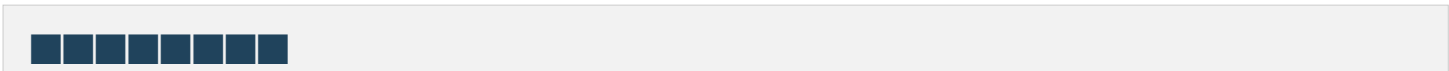


- [illegible]



Natural Earth 

■■■■■■■■■■ ■■■■■■: [NATURALEARTH]



1. ■■■■■■■■■■ ■ ■■■■ ■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■■.



2. ■■■■■■■■ ■■■■■■■■■■ ■■■■■■ ne_10m_railroads_north_america.zip ■
 ■■■■■■■■ ■■■.



- ```
3. ne_10m_railroads_north_america.shp.
```



4. [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].









8. ■ ■■■■■■■■ ■■■■ QGIS ■■ ■■■■■■■■, ■■■ ■■■■■ ■■■■■ ■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■.





9. `ne_10m_railroads_north_america` is a vector layer representing the railroads of North America. It is a line layer with a yellow color and a width of 2 pixels. It is located in the 'ne\_10m\_railroads\_north\_america' layer group.





11. **Save the layer as a shapefile, using the following settings:**  
 Format: ESRI Shapefile  
 Save as: C:/Users/Ujaval/Downloads/usa\_railroads.shp  
 Encoding: System  
 CRS: Layer CRS  
 Symbology export: No symbology  
 Scale: 1:50000  
 Skip attribute creation: ☐  
 Add saved file to map: ☐  
 More Options >>  
 OK Cancel Help







14. ■■■■■■■■■■ ■■■■■■■■ ■■■■■■■■ ■■ ■■■■ usa\_railroads ■ ■■■■■■■■ *Open*  
■■■■■■■■■ ■■■■■■■■.









17. **Attribute Table**, **Toggle** **length\_km** **Attribute Table**, **Toggle** **length\_km** **Attribute Table**.





19. **Input** `usa_railroads`. **Target** `length_km` **OK**. **Sum** `length_km` - **Basic statistics** **OK**.

## Note

The `Basic statistics` tool is used to calculate the sum of the `length_km` field for the `usa_railroads` layer. The result is displayed in the `Basic statistics` dialog box.

Basics statistics

Input Vector Layer  
usa\_railroads

☐ Use only selected features

Target field  
length\_km

Statistics output

| Parameter               | Value          |
|-------------------------|----------------|
| Mean                    | 127.751569149  |
| StdDev                  | 125.80562595   |
| Sum                     | 96069.18       |
| Min                     | 0.01           |
| Max                     | 936.6          |
| N                       | 752.0          |
| CV                      | 0.984767755... |
| Number of unique values | 743            |

Press Ctrl+C to copy results to the clipboard

0% OK Close