

Calculating Line Lengths and Statistics

QGIS Tutorials and Tips



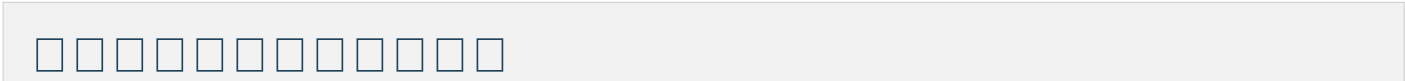
Author

Ujaval Gandhi

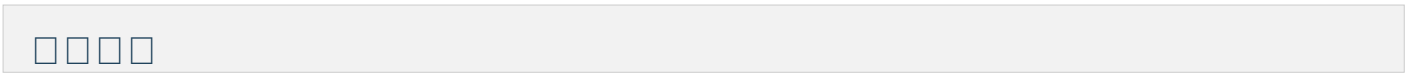
<http://google.com/+UjavalGandhi>

Translations by

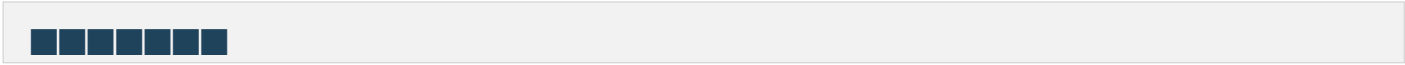
Whyjay Zheng



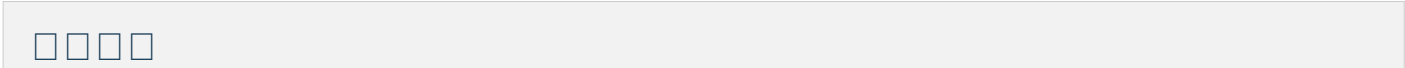
(Unfinished) QGIS ██



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shapefile shapefile
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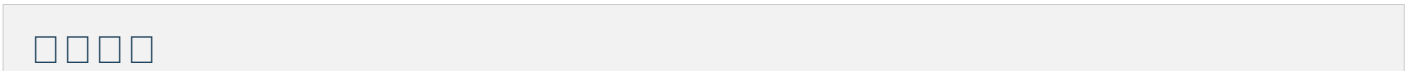


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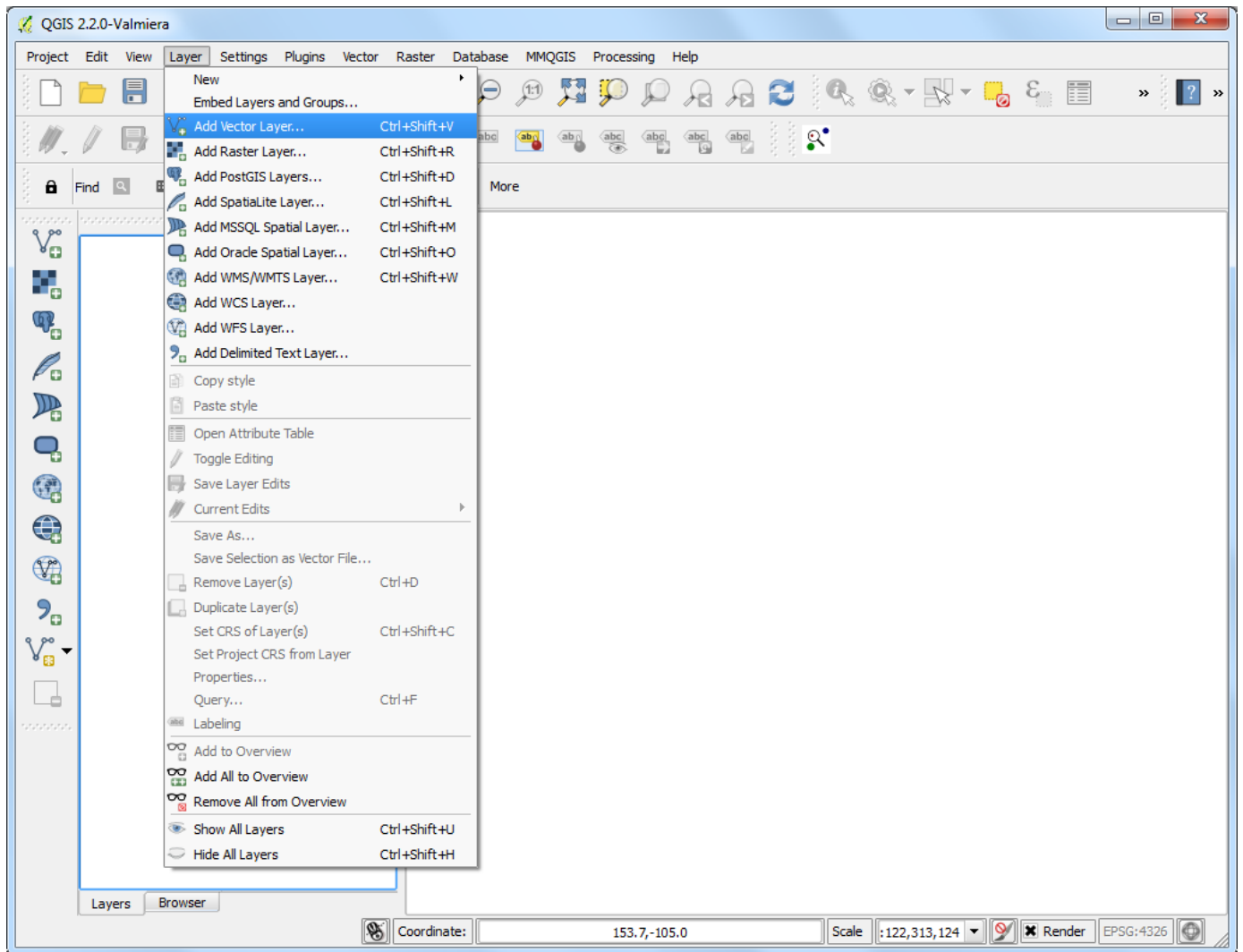
[illegible][illegible]

ne_10m_railroads_north_america.zip

□□□□ [NATURALEARTH]



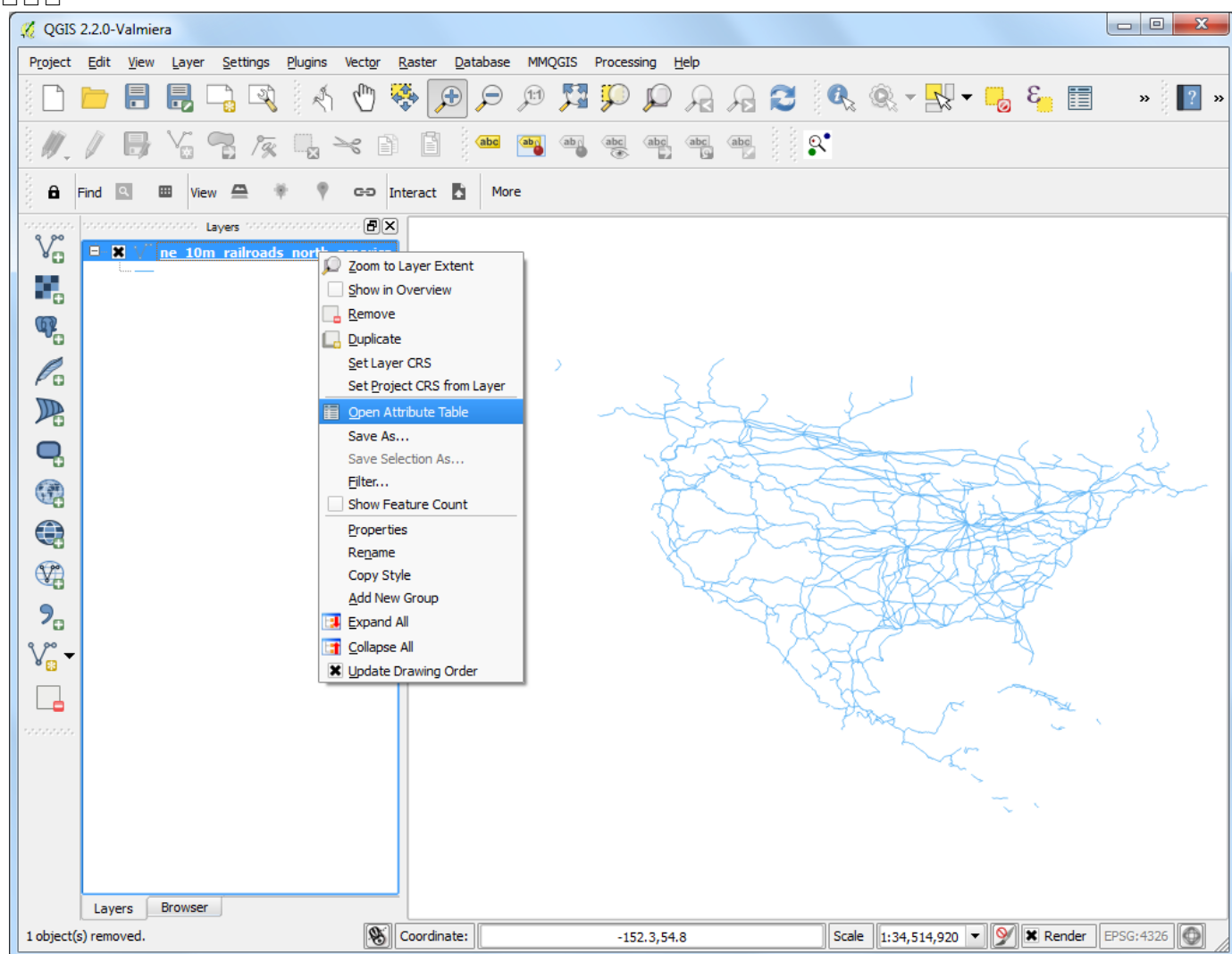
1. □□ □□ ▶ □□□□□□□□



2. `ne_10m_railroads_north_america.zip`



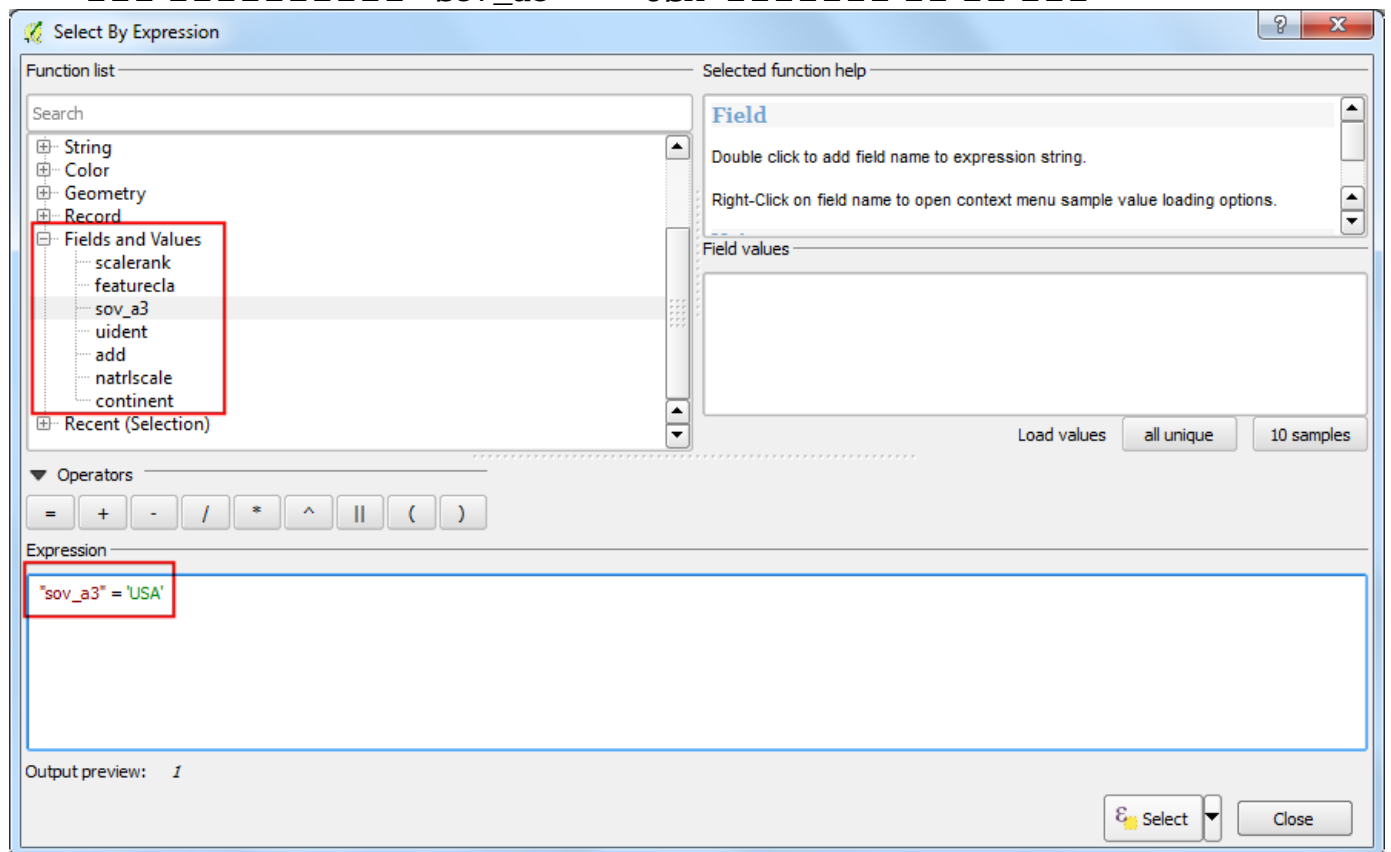
3. `ne_10m_railroads_north_america.shp`



5. □□□□□□□□□□

sov_a3

7. 以下の図のように、"sov_a3" = 'USA' の条件で、sov_a3 の値が 'USA' の要素を選択する。



8. QGIS の「Select By Expression」ダイアログボックスの「Field values」セクションに、以下の図のように、



11. `qgis -p /usr/share/qgis/qgis3.qgs -c /usr/share/qgis/qgis3.qgs -s north america equidistant`
`qgis -p /usr/share/qgis/qgis3.qgs -c /usr/share/qgis/qgis3.qgs -s North_America_Equidistant_Conic EPSG:102010`
`qgis -p /usr/share/qgis/qgis3.qgs -c /usr/share/qgis/qgis3.qgs -s EPSG:102010`



12. `guiLabel = QLabel('North America Equidistant Conic', self)`



13. □□□□□□ QGIS □□□□□□ *usa_railroads* □□□□□□□□□□□□□□□□□□
ne_10m_railroads_north_america □□□□□□□□□□□□

Attribute table - usa_railroads :: Features total: 752, filtered: 752, selected: 0

Open field calculator (Ctrl+I)

	scalerank	featurecla	sov_a3	uident		continent
0	8	Railroad	USA	1506	0	North America
1	9	Railroad	USA	1606	1	North America
2	8	Railroad	USA	1706	0	North America
3	8	Railroad	USA	1806	0	North America
4	8	Railroad	USA	1906	0	North America
5	8	Railroad	USA	2006	0	North America
6	8	Railroad	USA	2106	0	North America
7	9	Railroad	USA	2206	1	North America
8	8	Railroad	USA	2306	0	North America
9	8	Railroad	USA	2406	0	North America
10	8	Railroad	USA	2506	0	North America
11	8	Railroad	USA	2606	0	North America
12	8	Railroad	USA	2706	0	North America
13	8	Railroad	USA	2806	0	North America
14	9	Railroad	USA	2906	1	North America
15	9	Railroad	USA	3006	1	North America
16	8	Railroad	USA	3106	0	North America
17	8	Railroad	USA	3206	0	North America
18	8	Railroad	USA	3306	0	North America
19	8	Railroad	USA	3506	0	North America
20	8	Railroad	USA	3606	0	North America
21	8	Railroad	USA	3706	0	North America
22	8	Railroad	USA	3806	0	North America
23	9	Railroad	USA	3906	1	North America

Show All Features

16. $\frac{\text{length_km}}{1000}$ CRS



17. □□ □□□□□□ length_km □□□□□□□□□□ □□□□□□ □□□□□□□□□□

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