Calculating Line Lengths and Statistics

QGIS Tutorials and Tips



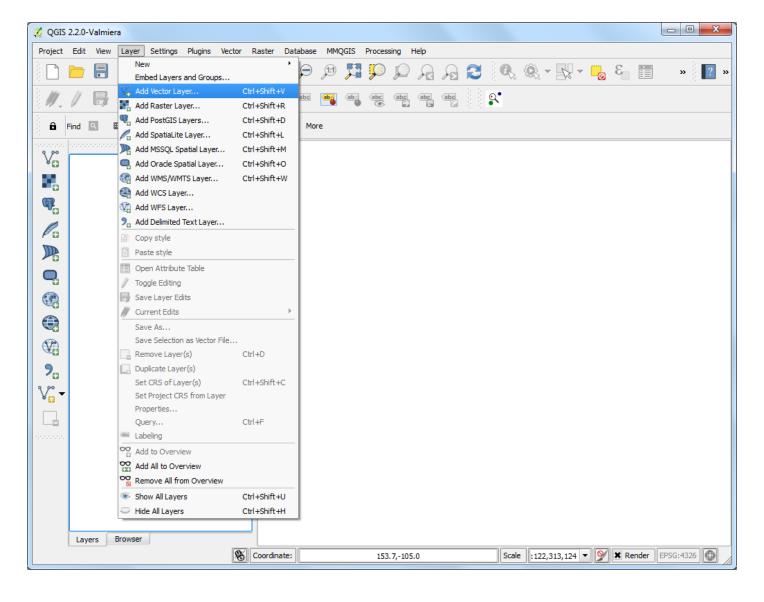
Author Ujaval Gandhi

http://google.com/+Ujaval Gandhi

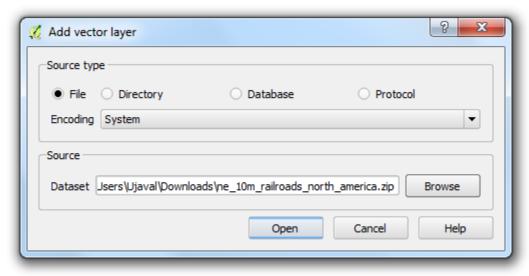
Translations by SongHyun Choi

QGIS
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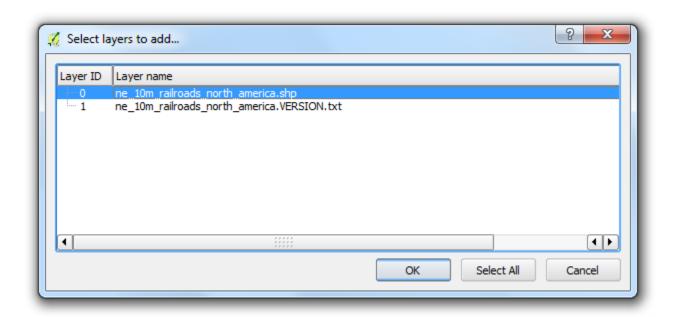
Natural
1. 🗆 🗆 🗆 :menuselection: `Layer> Add Vector Layer ` 🗆 🗆 🗆 🗆 .

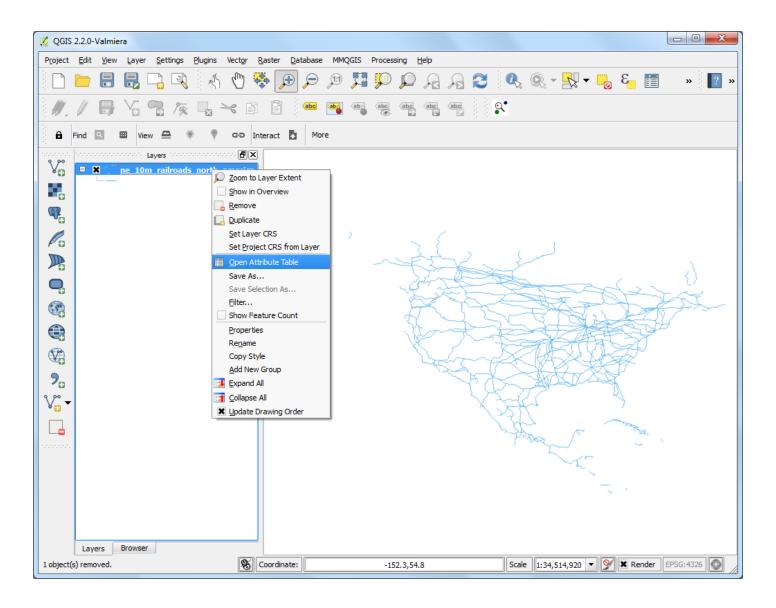


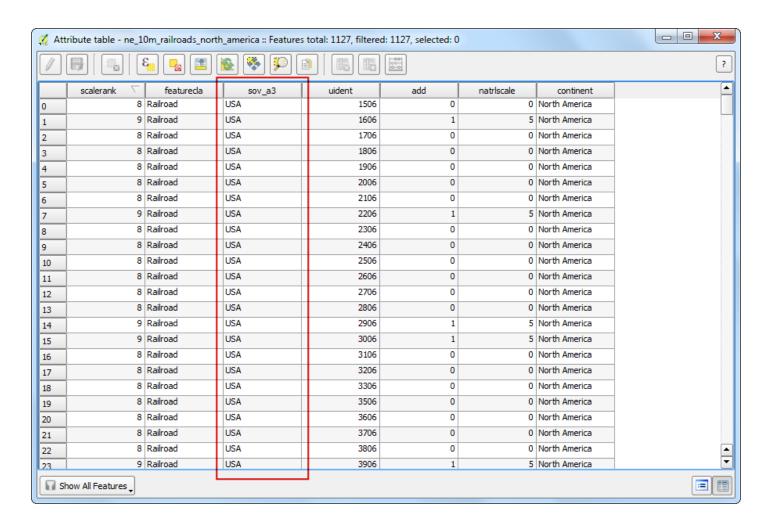
2. ``ne_10m_railroads_north_america.zip`` \\ \colon \\ \



3. In the Select layers to add... dialog, choose ne_10m_railroads_north_america.shp layer.





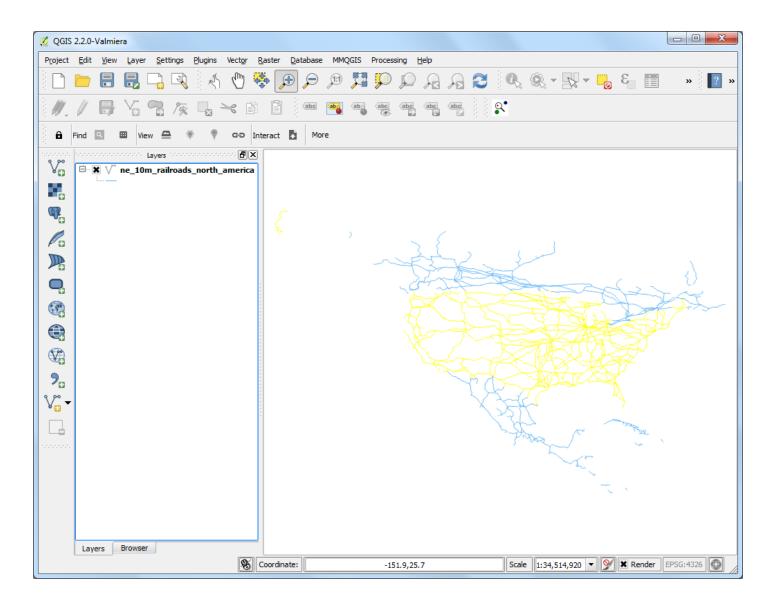


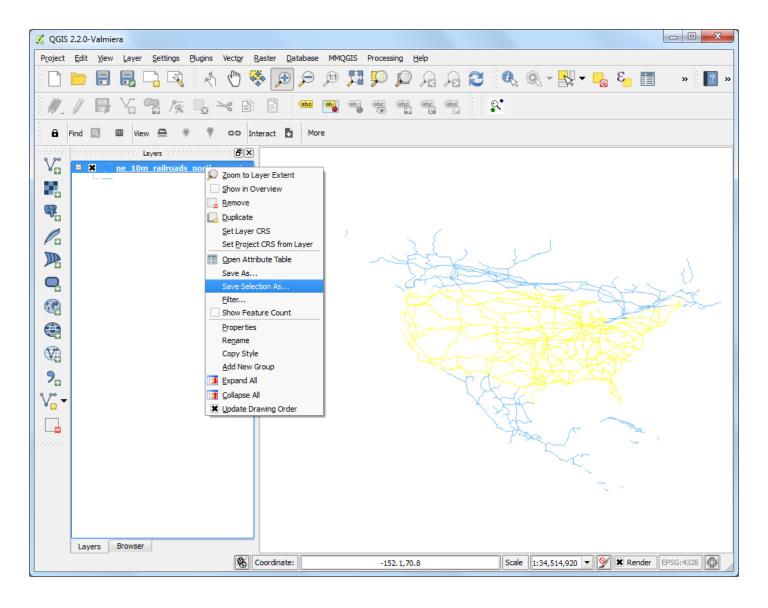
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	9	Railroad	USA	1606	1	5	North America	
	8	Railroad	USA	1706	0	0	North America	
	8	Railroad	USA	1806	0	0	North America	
+	8	Railroad	USA	1906	0	0	North America	
5	8	Railroad	USA	2006	0	0	North America	
	8	Railroad	USA	2106	0	0	North America	
	9	Railroad	USA	2206	1	5	North America	
3	8	Railroad	USA	2306	0	0	North America	
	8	Railroad	USA	2406	0	0	North America	
.0	8	Railroad	USA	2506	0	0	North America	
1	8	Railroad	USA	2606	0	0	North America	
2	8	Railroad	USA	2706	0	0	North America	
13	8	Railroad	USA	2806	0	0	North America	
L4	9	Railroad	USA	2906	1	5	North America	
.5	9	Railroad	USA	3006	1	5	North America	
16	8	Railroad	USA	3106	0	0	North America	
17	8	Railroad	USA	3206	0	0	North America	
.8	8	Railroad	USA	3306	0	0	North America	
19	8	Railroad	USA	3506	0	0	North America	
.0	8	Railroad	USA	3606	0	0	North America	
21	8	Railroad	USA	3706	0	0	North America	
22	8	Railroad	USA	3806	0	0	North America	
3	9	Railroad	USA	3906	1	5	North America	

7. □□ Select By Express	ion 🗆 🗆 🗆 🗆 🗆 🗆		Functions li	st 🗆 🗆 🗆	
Fields and Values					
:guilabel: `Expression`					
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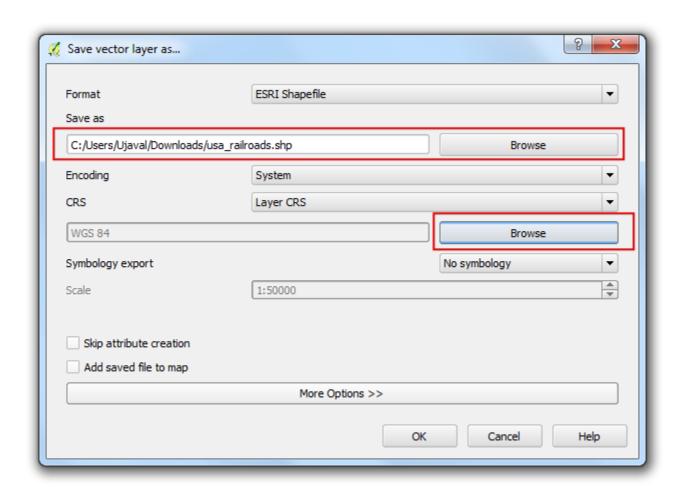


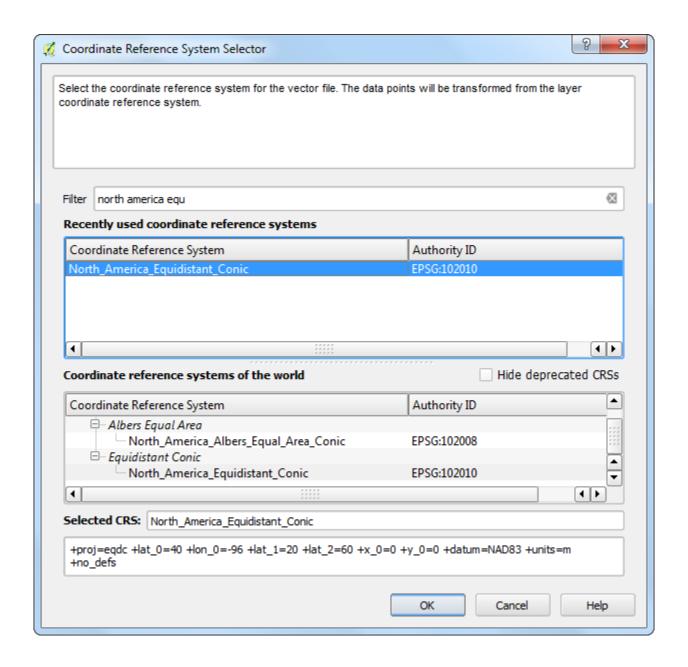
8. Back in the main QGIS window, you will see that all lines that fall in USA are selected and appear in yellow.



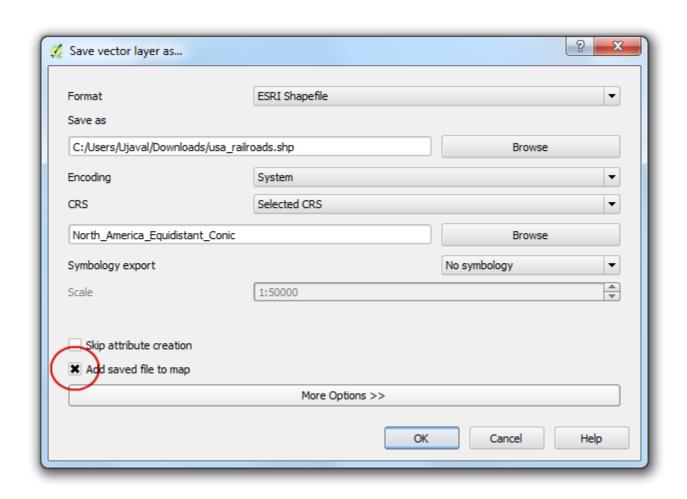


Note

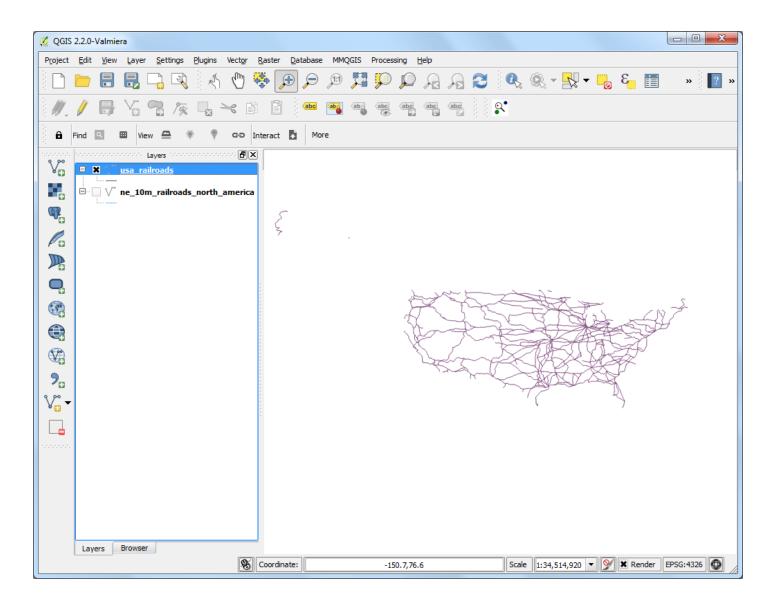


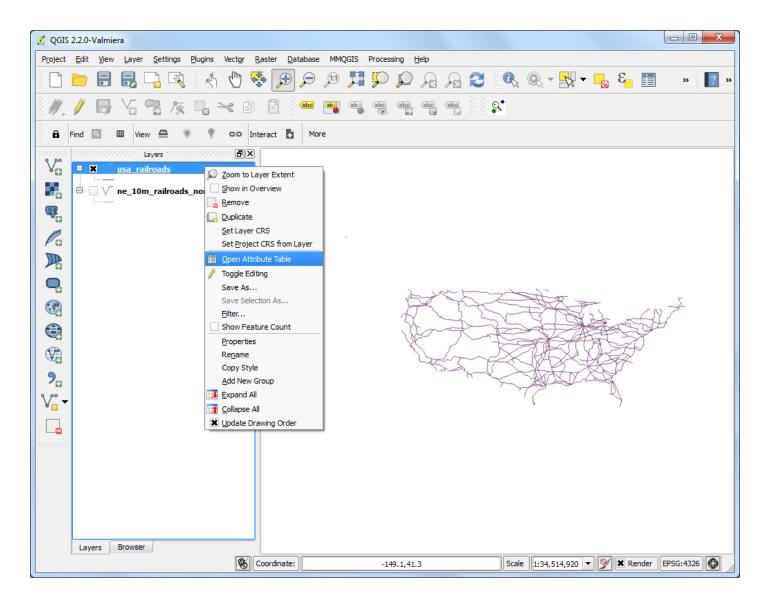


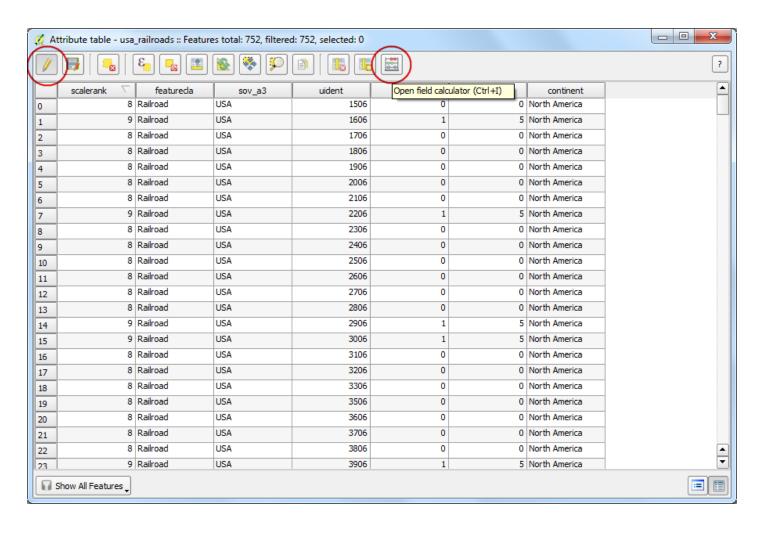
12. □ □□□ □□□ □□□□ Save vector layer as... □□□□□□ □□□ □□□ □□□□□ :guilabel: `OK` □ □□□□.



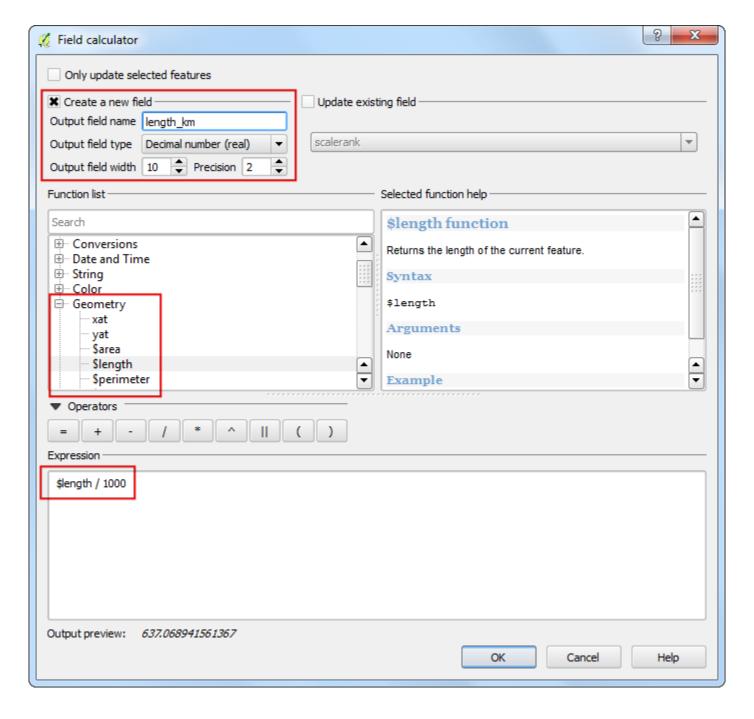






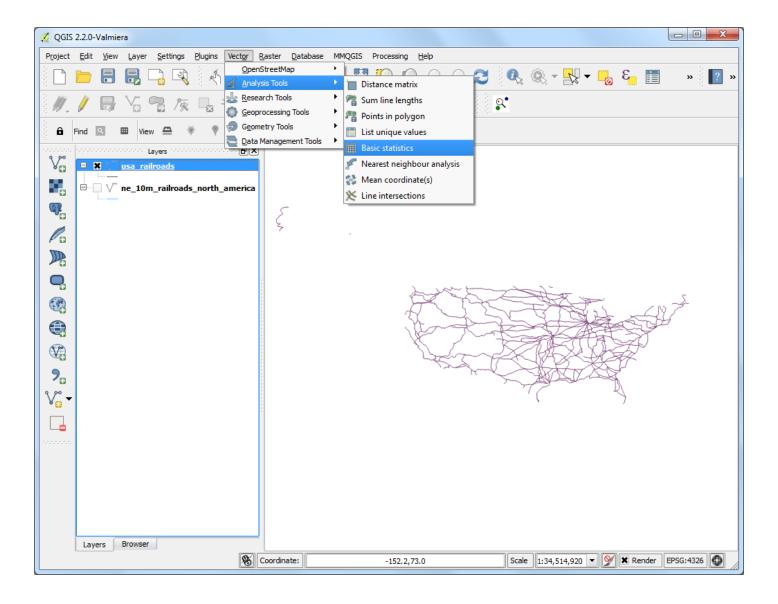






17. □□□□ Attribute Table`□ □□□ □□□ □□ :guilabel:`length_km`□ □□□□ :guilabel:`Toggle editing □□□ □□□ □□□ □□□□.

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scalerank $ abla$	featureda	sov_a3	uident	add	natrlscale	continent	length_km
8	Railroad	USA	1506	0	0	North America	637.07
9	Railroad	USA	1606	1	5	North America	16.27
8	Railroad	USA	1706	0	0	North America	96.22
8	Railroad	USA	1806	0	0	North America	20.15
8	Railroad	USA	1906	0	0	North America	0.01
8	Railroad	USA	2006	0	0	North America	79.95
8	Railroad	USA	2106	0	0	North America	67.00
9	Railroad	USA	2206	1	5	North America	196.45
8	Railroad	USA	2306	0	0	North America	60.61
8	Railroad	USA	2406	0	0	North America	20.03
8	Railroad	USA	2506	0	0	North America	147.21
8	Railroad	USA	2606	0	0	North America	68.33
8	Railroad	USA	2706	0	0	North America	1.62
8	Railroad	USA	2806	0	0	North America	4.34
9	Railroad	USA	2906	1	5	North America	60.92
9	Railroad	USA	3006	1	5	North America	157.26
8	Railroad	USA	3106	0	0	North America	131.39
8	Railroad	USA	3206	0	0	North America	58.84
8	Railroad	USA	3306	0	0	North America	432.74
8	Railroad	USA	3506	0	0	North America	29.55
8	Railroad	USA	3606	0	0	North America	94.90
8	Railroad	USA	3706	0	0	North America	577.78
8	Railroad	USA	3806	0	0	North America	223.04
9	Railroad	USA	3906	1	5	North America	143.94



19. □□□□□□ :guilabel:`Input Vector layer`□ ``usa_railroads``□ □□□□□. □□□□ :guilabel:`Target field`□ ``length_km``□ □□□□ :guilabel:`OK`□ □□□□□. □□ :guilabel:`Sum`□□ □□□□□□□□□□□□□□.

Note

