

Counting Number of Vertices in a Layer

QGIS Tutorials and Tips



Author

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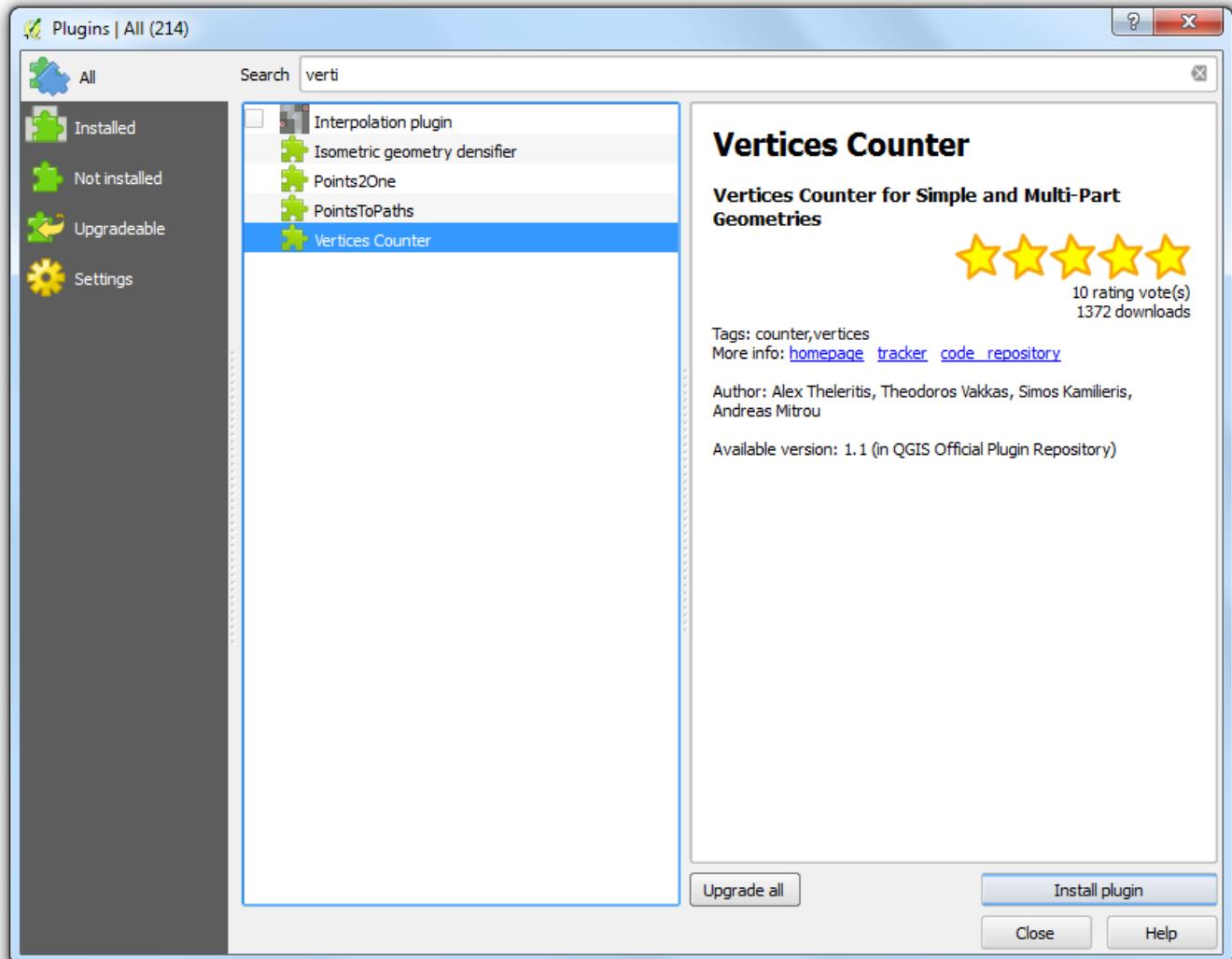
<http://www.spatialthoughts.com>

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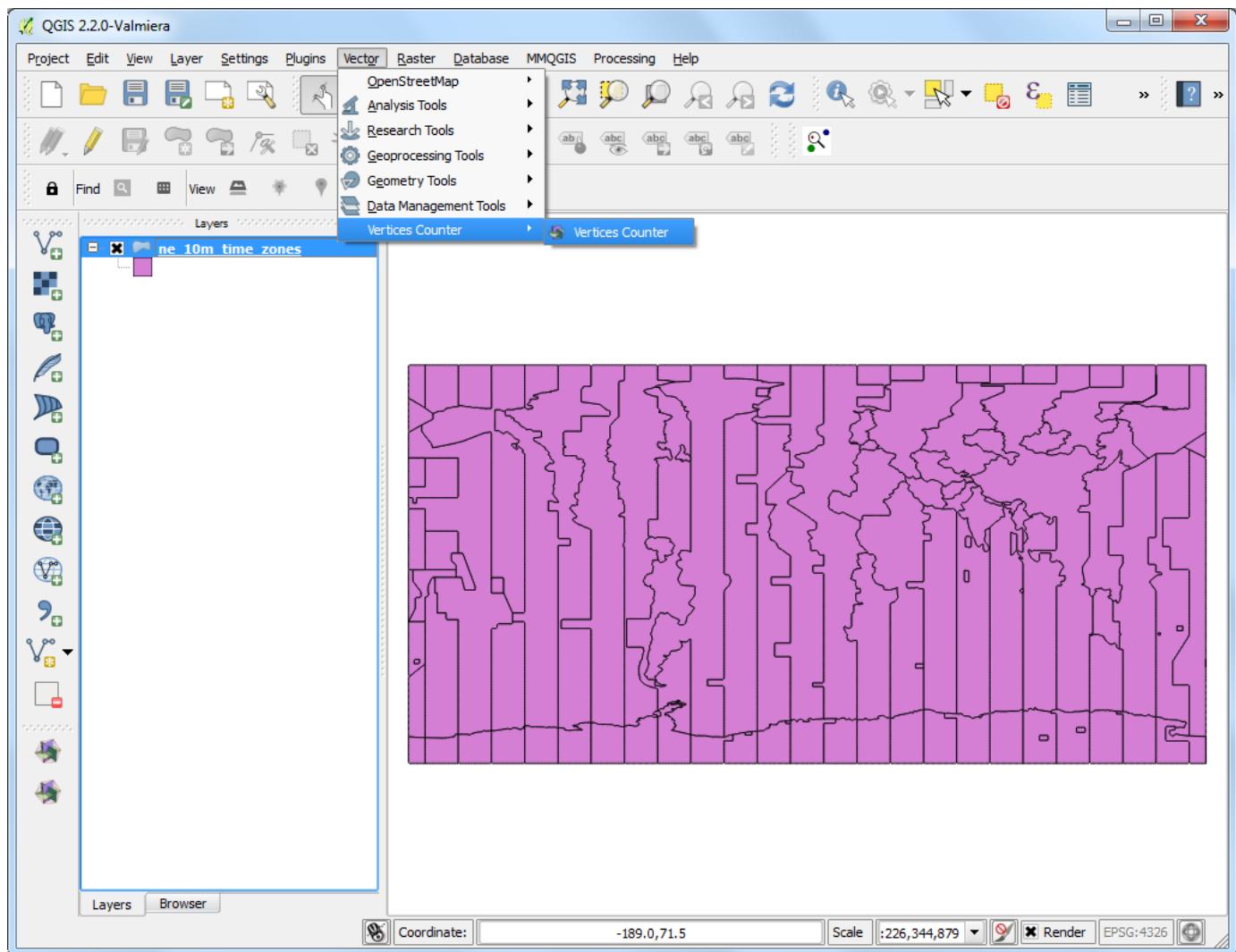
QGIS doesn't have a built-in function to calculate number of vertices for each feature in a layer. But a very handy plugin called **Vertices Counter** fills this gap and adds a few handy features as well.

Procedure

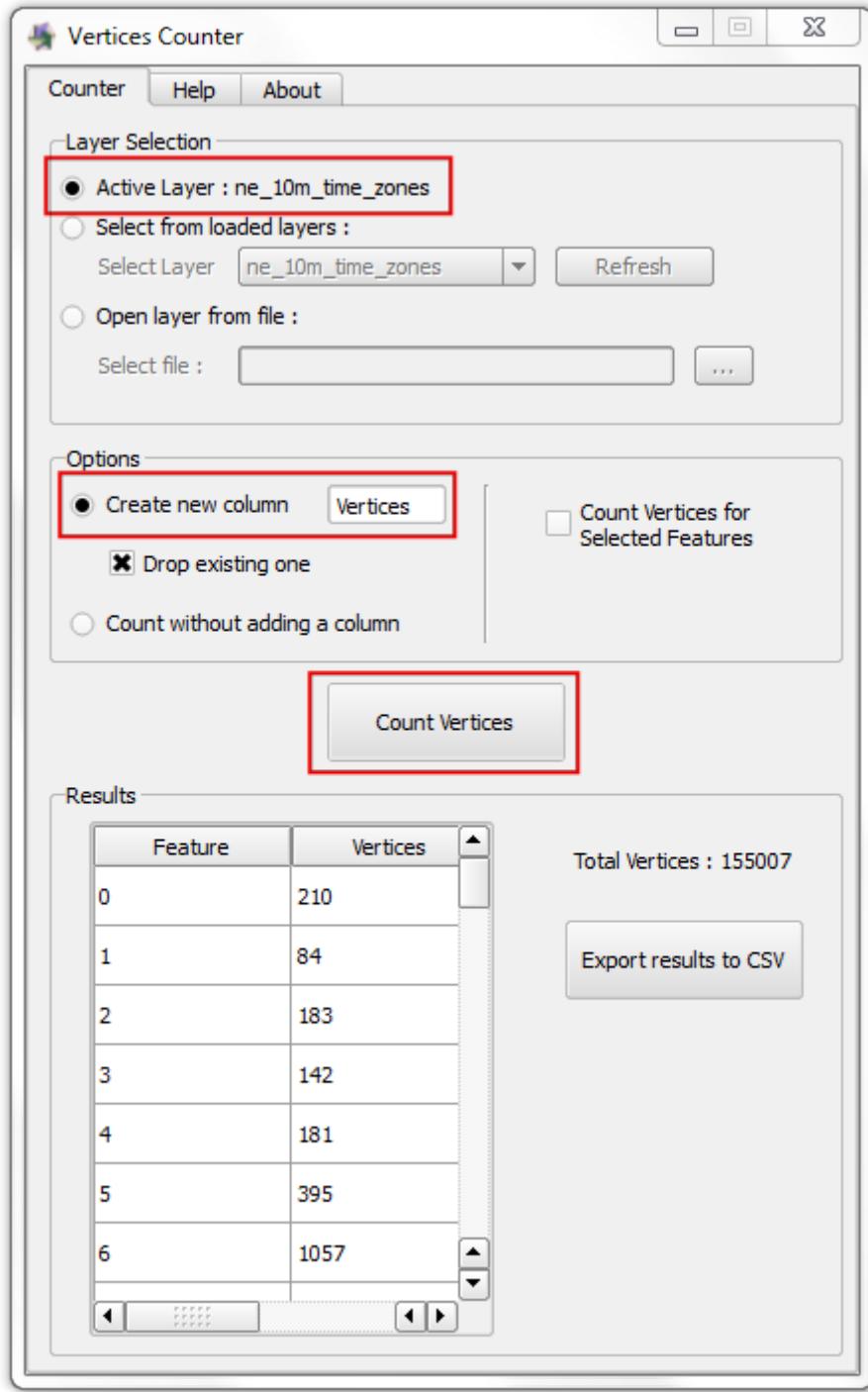
1. Find and install the **Vertices Counter** plugin. See [Using Plugins](#) for details on installing plugins in QGIS.



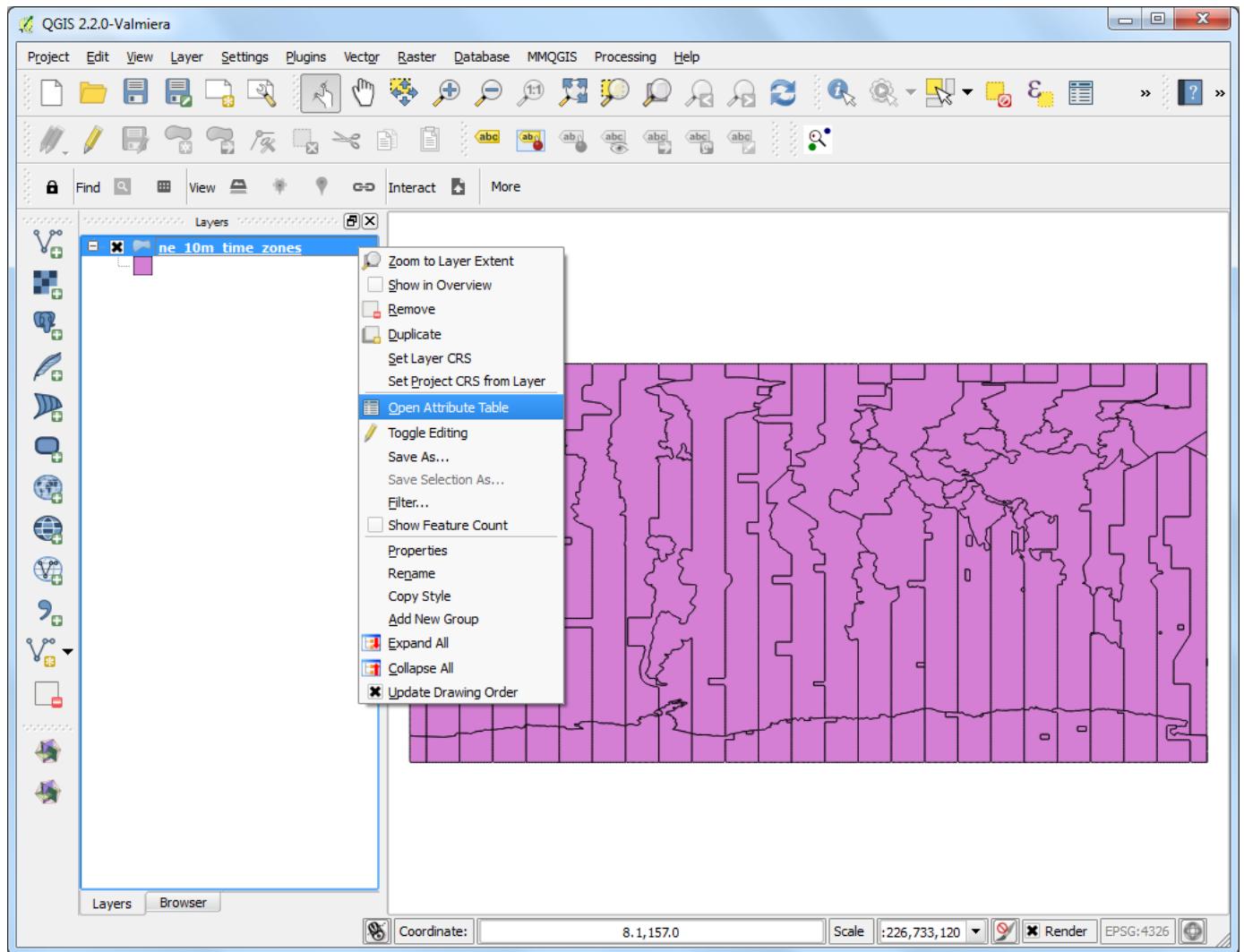
2. Load any polygon or line layer in QGIS. Go to Vector ▶ Vertices Counter ▶ Vertices Counter.



3. By default, the active layer will be selected under the Layer Selection. You may select any other loaded layers or open layer directly from disk as well. The plugin has an option called Create new column which can add an number of vertices as an attribute for each feature. This is handy for a lot of use cases, so we can select that option. Now click on the Count Vertices button and the Results section will be populated with vertex count for each feature. You can even see the Total Vertices displayed on the side.



4. Back in the main QGIS window, let's verify if a new column was added to our layer. Right-click the layer and select Open Attribute Table.



5. As you will notice, a column named *Vertices* will be added at the end with values representing the vertex count for each feature. This column can come in handy if you want to do a query such as *Select all features with Vertices > X*.

Attribute table - ne_10m_time_zones :: Features total: 120, filtered: 120, selected: 0

This screenshot shows the attribute table for the 'ne_10m_time_zones' layer in QGIS. The table lists 120 features, all of which are currently selected. The columns represent various properties of the time zones, including UTC offset, time zone name, ISO 8601 timestamp, place names, and geographical features. The 'Vertices' column, which indicates the number of vertices for each feature, is highlighted with a red border.

#	utc_format	time_zone	iso_8601	places	dst_places	tz_name1st	tz_namesum	Vertices
0	-10.00	UTC-10:00	2012-05-30T18:...	Arctic Ocean	NULL	NULL		210
1	-10.00	UTC-10:00	2012-05-30T18:...	United States (Al...	United States (Al...	NULL		84
2	-11.00	UTC-11:00	2012-05-30T17:...	Arctic Ocean	NULL	NULL		183
3	-11.00	UTC-11:00	2012-05-30T17:...	American Samoa,...	NULL	NULL		142
4	-11.00	UTC-11:00	2012-05-30T17:...	American Samoa,...	NULL	Pacific/Midway		181
5	-11.00	UTC-11:00	2012-05-30T17:...	American Samoa,...	NULL	Pacific/Pago_Pago		395
6	-10.00	UTC-10:00	2012-05-30T18:...	United States (H...	Most of French P...	Pacific/Honolulu		1057
7	-12.00	UTC-12:00	2012-05-30T16:...	Southern Ocean	NULL	NULL		189
8	-12.00	UTC-12:00	2012-05-30T16:...	Siberia	NULL	NULL		143
9	-7.00	UTC-07:00	2012-05-30T21:...	Canada (northea...	Canada (Alberta)...	America/Denver		5037
10	-9.50	UTC-09:30	2012-05-30T19:...	Marquesas Islands	NULL	Pacific/Marquesas		57
11	-6.00	UTC-06:00	2012-05-30T22:...	Canada (almost ...	Canada (Manitob...	America/Chicago		2862
12	-5.00	UTC-05:00	2012-05-30T23:...	Colombia, Cuba, ...	Canada (most of ...	America/New_York		5574
13	-3.50	UTC-03:30	2012-05-31T01:...	Canada (island o...	Canada (island o...	America/St_Johns		220
14	-4.00	UTC-04:00	2012-05-31T00:...	Arctic Ocean	NULL	NULL		139
15	-1.00	UTC-01:00	2012-05-31T03:...	Greenland (south...	NULL	America/Scoresb...		525
16	-4.00	UTC-04:00	2012-05-31T00:...	Bolivia, Brazil (A...	Falkland Islands	America/La_Paz		9877
17	-2.00	UTC-02:00	2012-05-31T02:...	Arctic Ocean	NULL	NULL		129
18	-2.00	UTC-02:00	2012-05-31T02:...	Brazil (Fernando ...	NULL	Atlantic/South_G...		1012
19	-1.00	UTC-01:00	2012-05-31T03:...	Portugal (Azores...)	NULL	Atlantic/Cape_Ve...		1268
20	-8.00	UTC-08:00	2012-05-30T20:...	Canada (most of ...	Canada (most of ...	America/Los_Ang...		3753
21	-8.00	UTC-08:00	2012-05-30T20:...	Arctic Ocean	NULL	NULL		318
22	13.00	UTC+13:00	2012-05-31T17:...	Kiribati (Phoenix ...	Samoa	Pacific/Enderbury		184

Show All Features ▾