

Working with Attributes

QGIS Tutorials and Tips



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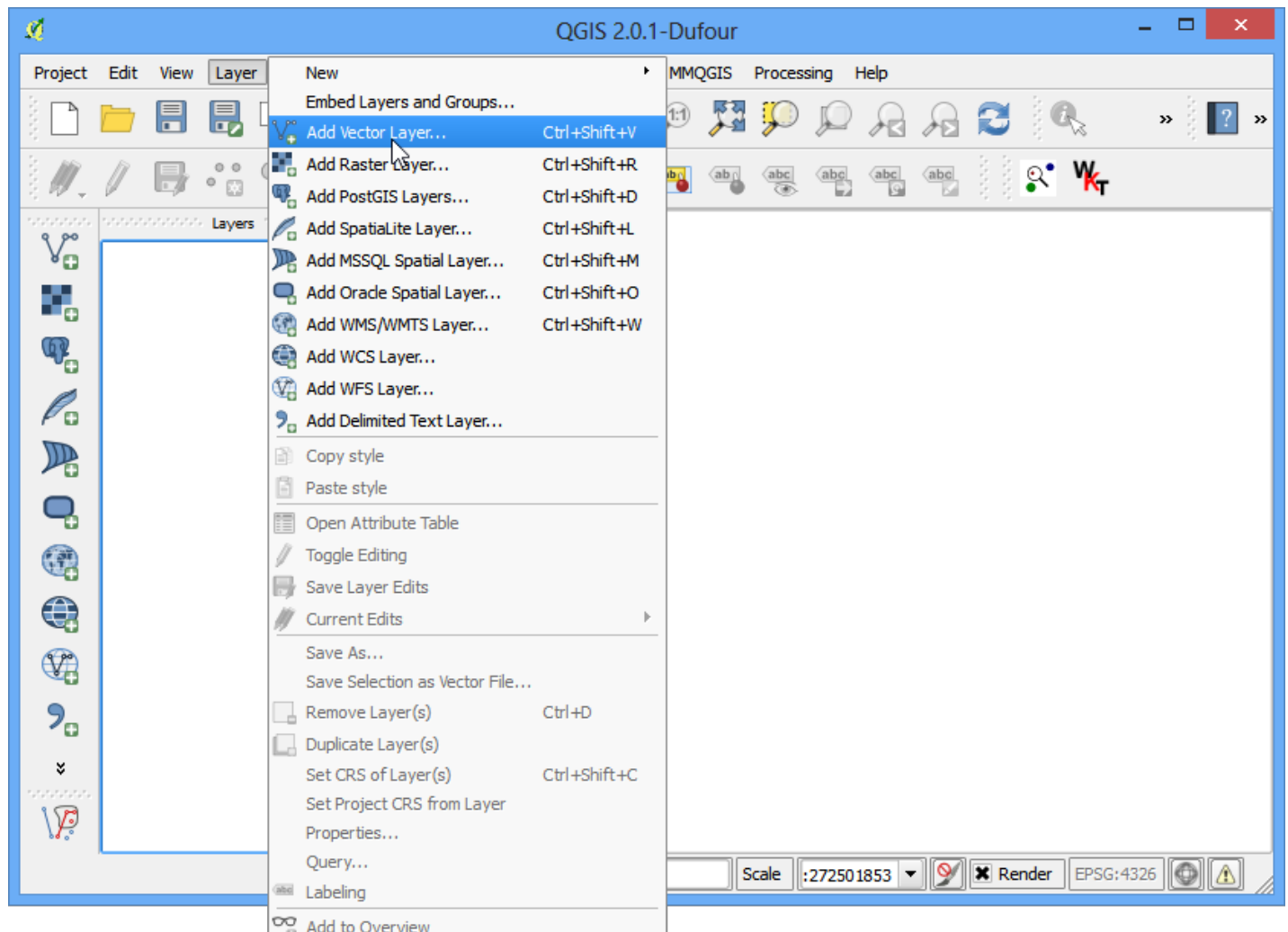
Translations by

SongHyun Choi

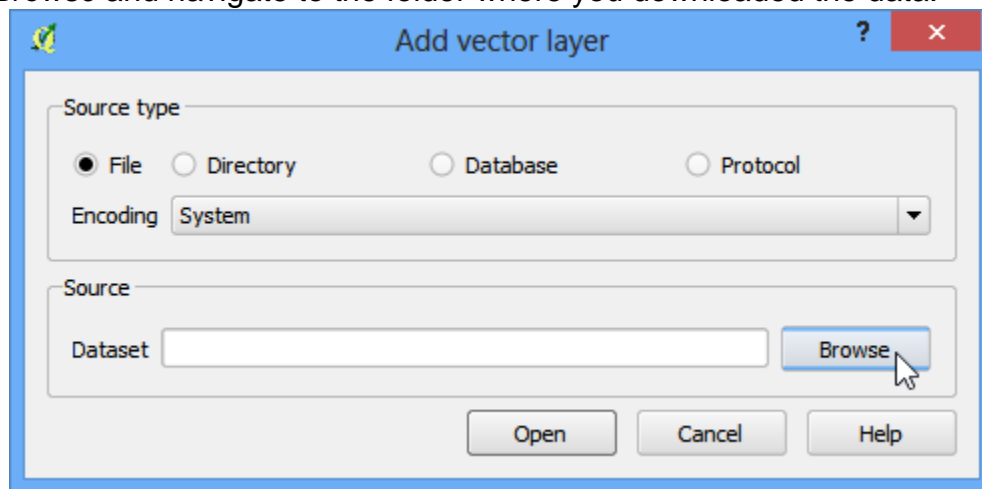


Natural Earth Populated Places shapefile. <http://www.naturalearthdata.com/http://www.naturalearthdata.com/download/10m/cultural/ne_10m_populated_places_simple.zip> _■■■■■■■■■.

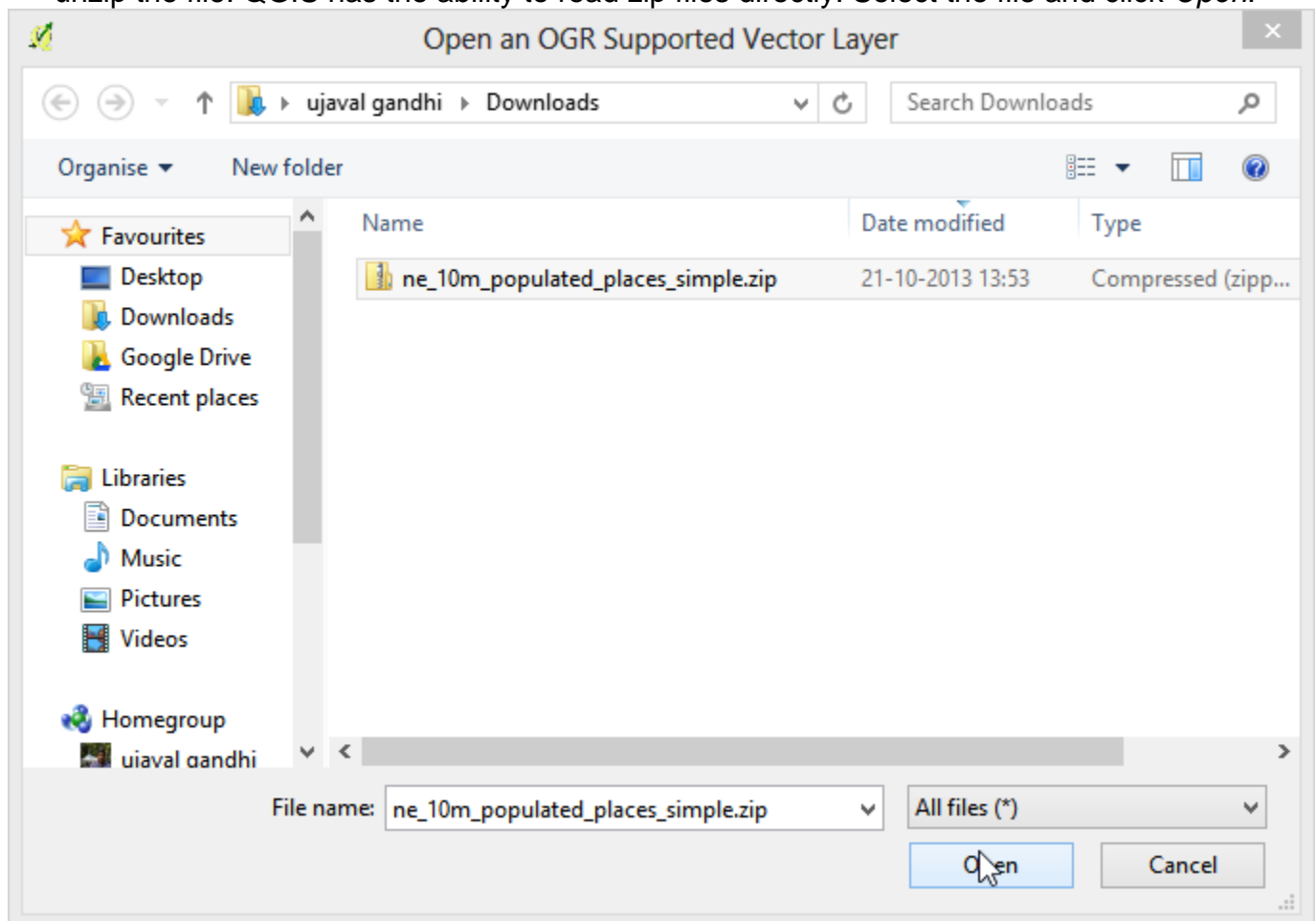
■■■■ ■■ [NATURALEARTH]



2. Click on *Browse* and navigate to the folder where you downloaded the data.



3. Locate the downloaded zip file *ne_10m_populated_places_simple.zip*. You do not need to unzip the file. QGIS has the ability to read zip files directly. Select the file and click *Open*.



4. `ne_10m_populated_places_simple.shp'`
:guilabel:'OK'



7. ■■■■ ■■■■ ■■ ■■■■ ■■■■■■.

Attribute table - ne_10m_populated_places_simple :: Features total: 7322, filtered: 7322, selecte...

	scalerank	natscale	labelrank	featurecla	name	namepar	namealt
0	10	1	8	Admin-1 capital	Colonia del Sac...	NULL	NULL
1	10	1	8	Admin-1 capital	Trinidad	NULL	NULL
2	10	1	8	Admin-1 capital	Fray Bentos	NULL	NULL
3	10	1	8	Admin-1 capital	Canelones	NULL	NULL
4	10	1	8	Admin-1 capital	Florida	NULL	NULL
5	10	1	8	Admin-1 capital	Bassar	NULL	NULL
6	10	1	8	Admin-1 capital	Sotouboua	NULL	NULL
7	10	1	7	Admin-1 capital	Medenine	NULL	NULL
8	10	1	7	Admin-1 capital	Kebili	NULL	NULL
9	10	1	7	Admin-1 capital	Tataouine	NULL	NULL
10	10	1	7	Admin-1 capital	L'Ariana	NULL	NULL
11	10	1	7	Admin-1 capital	Jendouba	NULL	NULL
12	10	1	7	Admin-1 capital	Kasserine	NULL	NULL
13	10	1	7	Admin-1 capital	Sdid Bouzid	NULL	NULL
14	10	1	7	Admin-1 capital	Siliana	NULL	NULL
15	10	1	7	Admin-1 capital	Mahdia	NULL	NULL
16	10	1	7	Admin-1 capital	Monastir	NULL	NULL
17	10	1	7	Admin-1 capital	Zaghuan	NULL	NULL
18	10	1	5	Admin-1 capital	Tay Ninh	NULL	NULL
19	10	1	5	Admin-1 capital	Luan Chau	NULL	NULL
20	10	1	5	Admin-1 capital	Bac Kan	NULL	NULL
21	10	1	5	Admin-1 capital	Lana Son	NULL	NULL

Show All Features

8. `pop_max` 函数返回字典中值最大的那个键。如果字典中有多个键具有相同的最大值，则返回字典中键值最小的那个键。

Attribute table - ne_10m_populated_places_simple :: Features total: 7322, filtered: 7322, selecte...

	longitude	changed	namediff	diffnote	pop_max	pop_min	pop_other
7312	139.75140742900	0.000000000000	0	NULL	35676000	8336599	12945252
7297	-73.98001692880	0.000000000000	0	NULL	19040000	8008278	9292603
7303	-99.13098820170	0.000000000000	0	NULL	19028000	10811002	10018444
7313	72.85698929740	0.000000000000	0	NULL	18978000	12691836	12426085
7318	-46.62501998040	0.000000000000	0	NULL	18845000	10021295	11522944
7221	77.23000402720	4.000000000000	0	Changed featur...	15926000	7633213	6747384
7311	121.43650467800	0.000000000000	0	NULL	14987000	14608512	16803572
7316	88.32467565810	4.000000000000	1	Name changed...	14787000	4631392	7783716
7248	90.40857946670	5.000000000000	0	Changed scale ...	12797394	7000940	14995538
7290	-58.39753137370	0.000000000000	0	NULL	12795000	10929146	10271457
7295	-118.17998051100	0.000000000000	0	NULL	12500000	3694820	142265
7168	66.99000891000	5.000000000000	0	Changed scale ...	12130000	11624219	11570278
7310	31.24996821970	0.000000000000	0	NULL	11893000	7734614	13720557
7317	-43.22502079420	0.000000000000	0	NULL	11748000	2010175	1821489
7280	135.46014481500	4.000000000000	0	Changed featur...	11294000	2592413	9630783
7306	116.38828568400	0.000000000000	0	NULL	11106000	7480601	9033231
7274	120.98221716200	0.000000000000	0	NULL	11100000	3077575	2381280
7302	37.61552282590	0.000000000000	0	NULL	10452000	10452000	10585385
7299	29.01000158560	0.000000000000	0	NULL	10061000	9945610	9651488
7314	2.33333532574	0.000000000000	0	NULL	9904000	11177	7142744
7273	126.99973099700	0.000000000000	0	NULL	9796000	9796000	12018058
7304	3.39153107121	4.000000000000	0	Location adjust...	9466000	1536	6567892

Show All Features

9. ■■■ ■■■■ ■■■■ ■■■ :guilabel:`Select features using an expression`■■■ ■■■■ ■■■■ ■■■■ ■■■■.



11. :guilabel:`Close` ■ ■■■■ QGIS ■■■■ ■■■■■■. ■■■■ ■ ■■■■ ■■■■ ■■■■■■ ■■■■ ■■■■. ■■■■ ■■■■ ■■■■ ■■■■■■ ■■■■ 1,000,000 ■■■■ ■ ■■■■ ■■■■ `pop_max` ■■■■ ■■■■. ■■■■.

Attribute table - ne_10m_populated_places_simple :: Features total: 7322, filtered: 7322, selecte...

	scalerank	natscale	labelrank	featurecla	name	namepar	namealt
7295	0	600	1	Populated place	Los Angeles	NULL	Los Angeles-Lo...
7296	0	600	1	Admin-0 capital	Washington, D.C.	NULL	Washington D.C.
7297	0	600	1	Populated place	New York	NULL	New York-New...
7298	0	600	5	Admin-0 capital	London	NULL	NULL
7299	0	600	5	Admin-1 capital	Istanbul	NULL	NULL
7300	0	600	5	Admin-0 capital	Riyadh	NULL	Ar-Riyadh
7301	0	600	3	Admin-0 capital	Cape Town	NULL	NULL
7302	0	600	2	Admin-0 capital	Moscow	Moskva	NULL
7303	0	600	2	Admin-0 capital	Mexico City	NULL	Ciudad de Méxi...
7304	0	600	2	Admin-0 capita...	Lagos	NULL	NULL
7305	0	600	3	Admin-0 capital	Rome	NULL	NULL
7306	0	600	1	Admin-0 capital	Beijing	NULL	NULL
7307	0	600	5	Admin-0 capital	Nairobi	NULL	NULL
7308	0	600	1	Admin-0 capital	Jakarta	NULL	NULL
7309	0	600	5	Admin-0 capital	Bogota	NULL	Bogotá
7310	0	600	3	Admin-0 capital	Cairo	NULL	Al-Qahirah
7311	0	600	1	Admin-1 capital	Shanghai	NULL	NULL
7312	0	600	2	Admin-0 capital	Tokyo	NULL	NULL
7313	0	600	1	Admin-1 capital	Mumbai	Bombay	NULL
7314	0	600	3	Admin-0 capital	Paris	NULL	NULL
7315	0	600	3	Admin-0 capital	Santiago	NULL	NULL
7316	0	600	1	Admin-1 capital	Kolkata	Calcutta	NULL

Show All Features

13. `'adm0cap'` `'1'` `'adm0cap' = 1` `:guilabel:'Select within selection'`



14. :guilabel:`Close` ■ ■■■■ QGIS ■■■■ ■■■■■■. ■■■■ ■■ ■ ■■■■■■ ■■■■ ■■ ■ ■■■■■. ■■■■ ■■■■ ■■ ■■■■■■ ■■■■■■ ■■■■ 1,000,000 ■■■■ ■■■■■■ ■■■■ ■■■■ ■■■■■■.



15. `self.canvas.set_cursor(QCursor.WaitCursor)`. `self.canvas.set_cursor(QCursor.WaitCursor)` :guilabel: Save Selection
As `self.canvas.set_cursor(QCursor.WaitCursor)`.



16. `ESRI` `ESRI Shapefile` `large_capital_cities.shp`
 :guilabel:`Add saved file to map` :guilabel:`OK`.



17. ■■■■ ■■■■ ■■■■■■ ■■■■■■ QGIS ■■■■■■. ne_10m_populated_places_simple ■■■■
■■■■■. ■■■■ ■■ 1,000,000 ■■■■ ■■■■ ■■■■ ■■■■ ■■■■ ■■■■ ■■■■.

