

Instructions For Acquiring And Editing Tigerline Shapefiles

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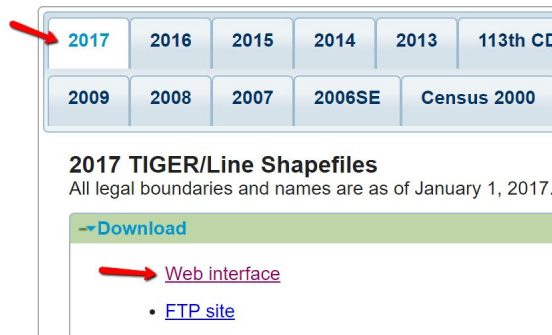
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Download Road Centerlines From census.gov

1. Navigate to: <https://www.census.gov/geo/maps-data/data/tiger-line.html>
2. Select the **2017** tab



3. Selected select **Download > Web interface.**
4. *Select A Layer Type: Roads*
5. *Primary and Secondary Roads* Note: These are the roads in the utilized in the analysis as freeways
 - a. *Select a State > Download*
6. *All Roads* (repeat process for all roads, these will be the roads in which boulevards are extracted.
 - a. *All Roads > Select State > Select County > Download*
7. Unzip downloaded files inside workspace.

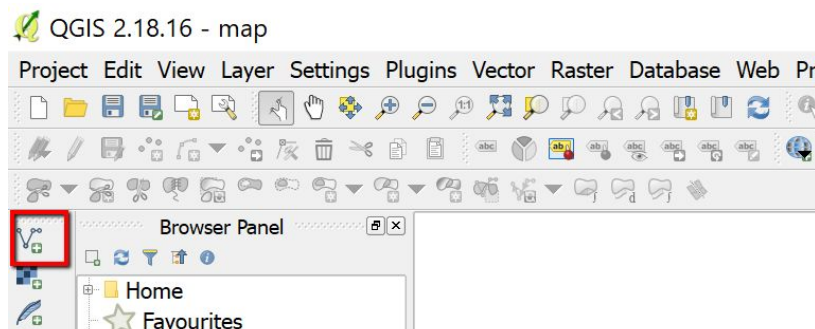
	Organize	New	Open	Select	
<input type="checkbox"/>	Name	^	Date modified	Type	Size
	fremont		2/6/2018 9:35 PM	File folder	
	san mateo		2/6/2018 5:05 PM	File folder	
	tl_2017_06_prisecroads		2/14/2018 2:12 PM	File folder	
	tl_2017_06081_roads		2/14/2018 2:12 PM	File folder	
	tl_2017_us_rails		2/6/2018 9:16 PM	File folder	
	tl_2017_06_prisecroads		2/14/2018 10:48 AM	Compressed (zipped)...	12,701 KB
	tl_2017_06081_roads		2/14/2018 10:52 AM	Compressed (zipped)...	2,819 KB

Starting a Project in QGIS

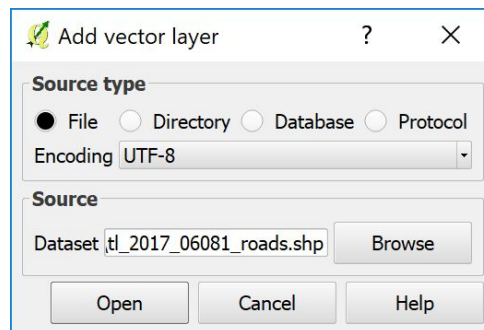
Download QGIS from <https://qgis.org/en/site/forusers/download.html>

Latest stable release - v 2.18

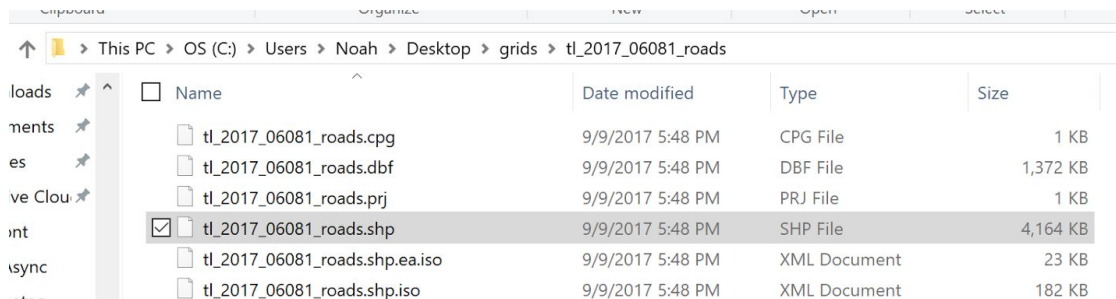
1. To begin select **New Project** from the *Project Toolbar*.
2. Continue by selecting **Add Vector Layer** from *Manage Layers Toolbar*.



3. Select **Source Type** as *File* and browse to workspace...



4. Select *.shp file from extracted files. Select **Open**.

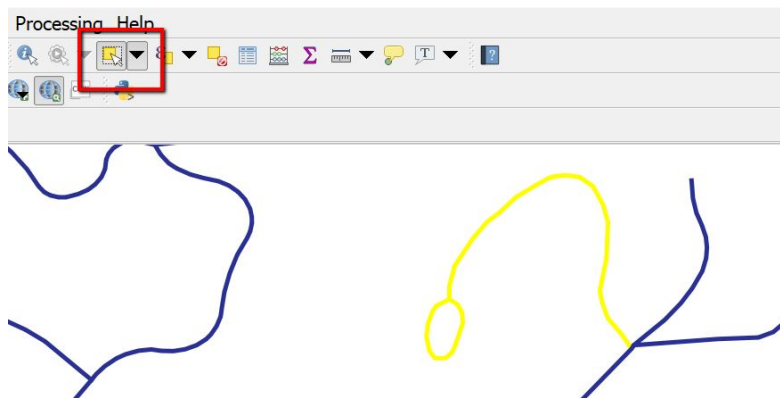


Selecting Features In QGIS.

There are multiple ways of identifying and selecting features. Features can be selected as rows from attribute table or as features from the map or searching features through expression.

Select features directly from the map.

Click **Select Features by Area or Click Tool** from *Attributes Toolbar*. Then Click or Drag to Select Features. Selected features will be highlighted on the map.



Selecting Features from Table.

With the layer selected in the layers panel, click open attributes from the Attributes toolbar. Alternatively you can right click the layer in the layers panel and select open the attribute table. With the attribute table open select the rows from the table records you wish to select. Corresponding features will also be highlight on the map.

37	110413818922	Kebet Ridge Rd	M	S1400
38	1102895060570	Muddy Rd	M	S1400
39	1103944952169	Sevilla Ave	M	S1400
40	1104259177659	Skyline Blvd	M	S1200
41	110413819022	Monte Vista Ln	M	S1400
42	1104469899712			S1400
43	110413814671	Johnston St	M	S1400
44	110413817500	Star Hill Rd	M	S1400
45	110413829595			S1740

Search Features Through Expression.

To search features whose attributes match a certain criteria use the filter at the bottom of the attributes table. The bottom left corner of the attribute table should have a dropdown currently showing Show all features. From the dropdown, select Field Filter > "Name" (or other field you wish to search). Now enter a value to search (ex. - blvd). Case sensitivity should be off by default. Otherwise uncheck the Case Sensitive checkbox on the far right side of the expression text box.

	LINEARID	FULLNAME	RTTYP	MTFCC
50	1104259334520	Junipero Serra Blvd	M	S1400
51	1104475234456	Hickey Blvd	M	S1400
52	1102806632037	Linda Mar Blvd	M	S1400
53	110413818492	St Francis Blvd	M	S1400
54	110413812079	Lincoln Blvd	M	S1400
55	1104259208685	Skyline Blvd	M	S1200
56	1103701559708	Lake Merced Blvd	M	S1400

Export Features.

With desired features selected, right click layer in layers panel and select save as. Select output format as ESRI Shapefile, give your file a name, and be sure to check the option Save only selected features. Click ok.

