

Creating Heatmaps

QGIS Tutorials and Tips



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Translations by

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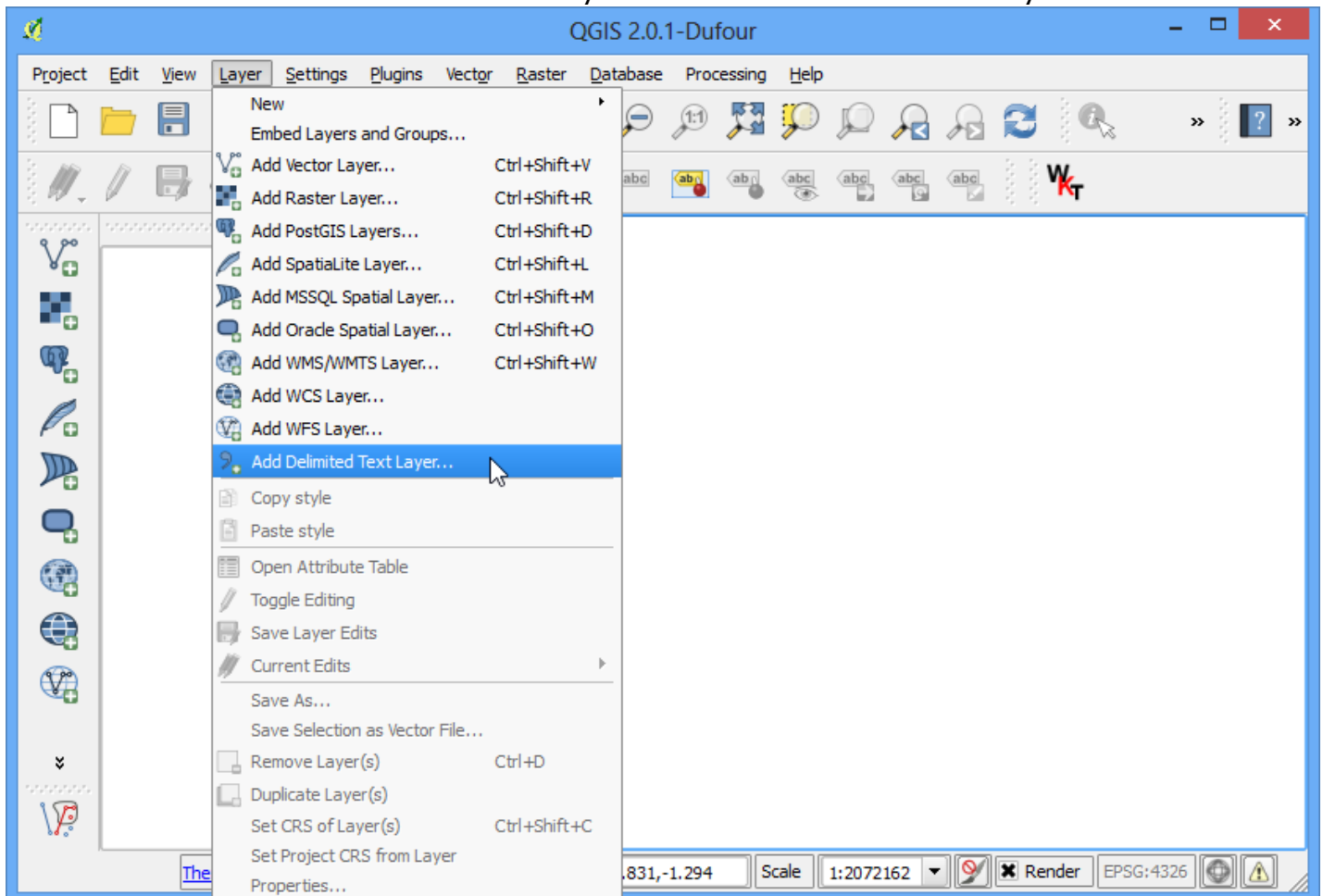
[illegible]

Surrey

raw data from the Police.uk crime mapping website
<<http://data.london.gov.uk/datastore/package/policeuk-crime-data>>_.

Download the [Surrey data](#).

1. 以下のコードを実行して、CSVデータをQGISに読み込む。QGISのメニューバーの「Layer」→「Add Delimited Text Layer」を選択する。
Pythonコード: `importing_spreadsheets_csv` (QGISのPythonコンソールで実行)。
QGISのメニューバーの「Layer」→「Add Delimited Text Layer」を選択する。



2. `police-uk-crime-data-surrey.txt` `:``guilabel:``CSV`
`(comma separated values)` `*Easting*` `*Northing*` `X` `Y`
`:``guilabel:``Use spatial index` `OK`.

Create a Layer from a Delimited Text File

File Name: `C:/Users/ujaval/Downloads/police-uk-crime-data-surrey/police-uk-crime-data-surrey.txt` `Browse...`

Layer name: `police-uk-crime-data-surrey` Encoding: `UTF-8`

File format: ☒ `CSV (comma separated values)` ☐ `Custom delimiters` ☐ `Regular expression delimiter`

Record options: Number of header lines to discard: `0` ☒ `First record has field names`

Field options: ☐ `Trim fields` ☐ `Discard empty fields` ☐ `Decimal separator is comma`

Geometry definition: ☒ `Point coordinates` ☐ `Well known text (WKT)` ☐ `No geometry (attribute only table)`

X field: `Easting` Y field: `Northing` ☐ `DMS coordinates`

Layer settings: ☒ `Use spatial index` ☐ `Use subset index` ☐ `Watch file`

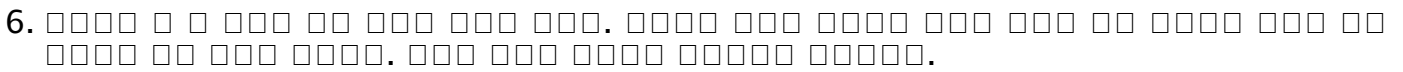
	ID	Month	Reported by	Falls within	Easting	Northing	Location	Crime type	Conte...
1	480097	2010-12	Surrey Police	Surrey Police	532773.00	156680.00	On or near Addison Road	Burglary	
2	480098	2010-12	Surrey Police	Surrey Police	498361.00	149806.00	On or near The Oval	Burglary	
3	480099	2010-12	Surrey Police	Surrey Police	498205.00	165251.00	On or near Albury Close	Burglary	
4	480100	2010-12	Surrey Police	Surrey Police	507437.00	174069.00	On or near Sanctuary Road	Burglary	
5	480101	2010-12	Surrey Police	Surrey Police	498205.00	165251.00	On or near Albury Close	Burglary	

`OK` `Cancel` `Help`

3. `:``guilabel:``Close`.



5. □□ QGIS □ □□□ □□□□□□ □□ □ □□□□.





7. To create the heatmap, you need to enable a core plugin named *Heatmap*. See [□□□□](#) [□□□□](#) to know how to enable built-in plugins. Once you have enabled the plugin, go to Raster › Heatmap › Heatmap.

Warning

The Heatmap plugin has a bug in QGIS 2.8.1. See [this post](#) for workarounds.



8. `Heatmap Plugin` `Output raster` `crime_heatmap` `Radius` `1000` `heat` `Advanced` `X` `Cell Size` `Y` `100` `OK`



9. □□ □□□ □□□□ □□□□ □□ □□□□ □□ □ □□□□.



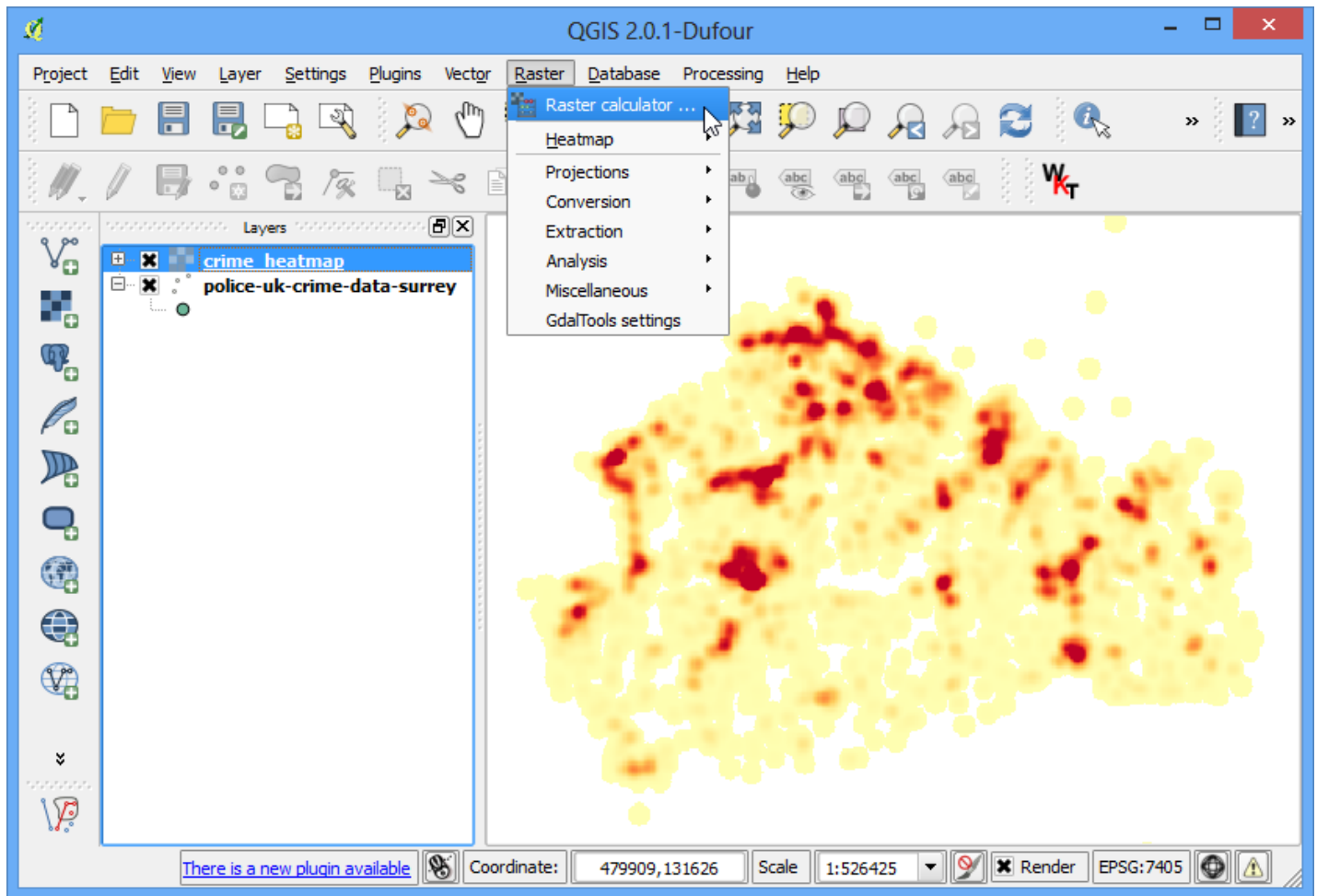
10. `guiabel: Properties`



11. `Style`` `Render type`` `Singleband pseudocolor`` `Load min/max values`` `Accuracy`` `Actual (slower)`` `Load`` `Generate new color map`` `YlOrRd (Yellow-Orange-Red)`` `Classify`` `OK``



13. □□ □□□□ □□□□□□□□. □□□ □□□ □□□ □□□□□□. □□□ □□□ □ □□□ □□□□□□ □□□□ □□□□. □□□ □□ □□ □□□ □ □ **hotspots** □ □□□□□ □□□□□. □ □□□□ □□□ **hotspots** □ □□□□□ □□□□□□. □□ □□□ --> □□□ □□□ :menuselection: Raster --> Raster Calculator` □ □□□□□.



14. `crime_hotspots` Raster calculator `crime_hotspots` `crime_heatmap@1` `"crime_heatmap@1" > 5` `Add result to project` `OK`



16. `crime_hotspots_vector`` `crime_hotspots_vector.shp`. `Field name`` `DN` `Load into canvas when finished`` `OK`` `crime_hotspots_vector.shp`.



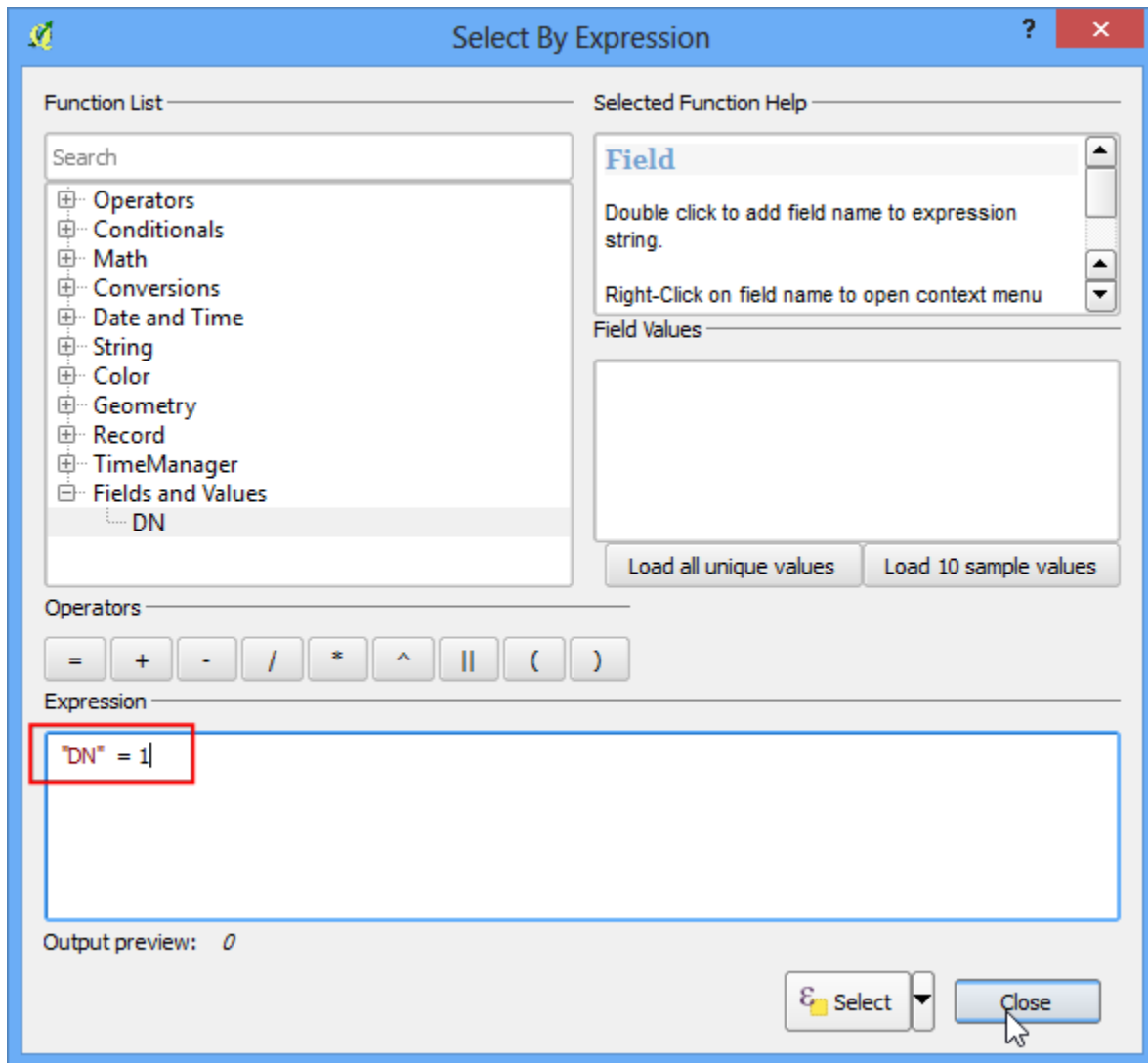
17. `00 000 0000 0 00 0000 QGIS 000 0000. 000 00000 0000 00000 000 000 0000. 0 0000 0 1 000 00 00000 0000 0000. 000 000 000 00000. 000 000 00000 00000. 0000 000000 00000 00 :guilabel: `Open Attribute Table` 0 00000.`



18. ☐ ☐ :guilabel: `Attribute table` ☐ ☐ ☐ ☐ ☐ :guilabel: `Select feature using an expression` ☐ ☐ ☐ ☐.



19. Click the "DN" = 1 button in the toolbar. Click the "Select" button in the toolbar. Click the "Close" button in the toolbar.



20. QGIS の「Select By Expression」ダイアログボックスで、フィールド名「DN」を選択し、式「"DN" = 1」を入力して、フィールド「DN」の値が 1 のレコードを選択する。その後、「Select」ボタンをクリックして、選択結果を確認する。



21. `crime_clusters`. `:guilabel:` Add saved file to map `:guilabel:` OK `:`



22. 00000000. 00 0000 00000 000 `hotspots` 0 0000 0000. 0 00000 000000
 000 *intelligence* 00 000 000 000 00 000 00 000 00 00000000 000 0 0000.

