Creating Heatmaps

QGIS Tutorials and Tips
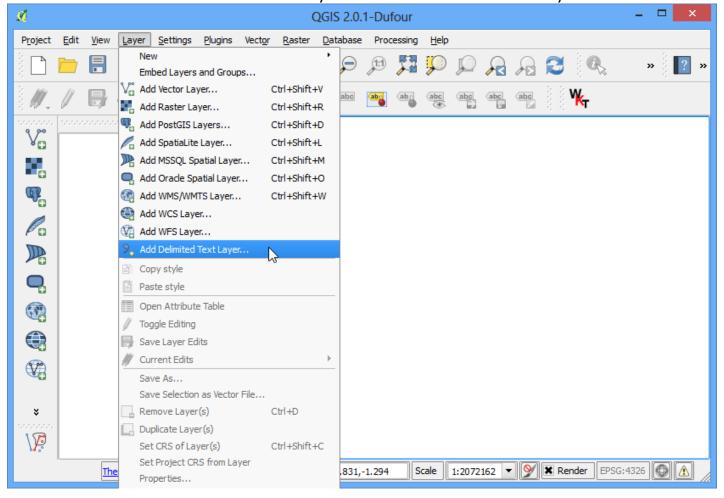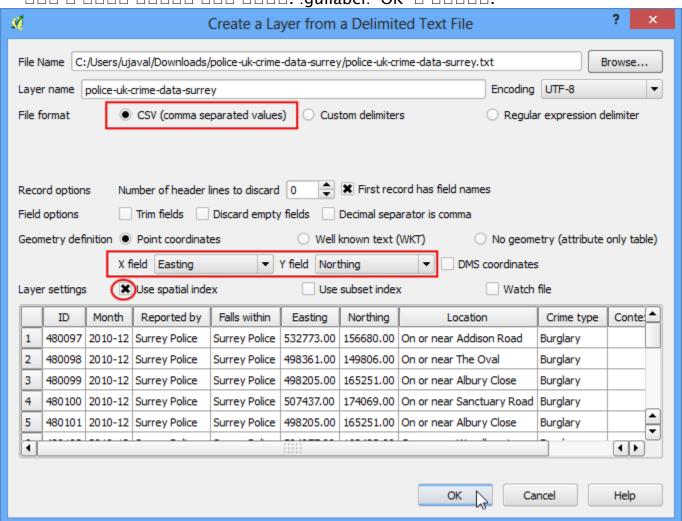
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http://google.com/+UjavalGandhi
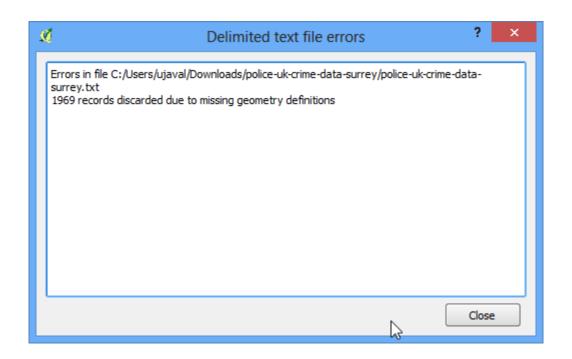
Translations by

SongHyun Choi

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□ □□□□□□□ 2011□ □□ Surrey□ □□□□□□□ □□□□□□□ □□□ □ □□□ □□□ □□ □□□ □□ □□□ □□□ □□ □□□□.

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

Download the Surrey data.

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1. □□□□ □□□ □□□ □□□□ □□□□□□. □□□□ CSV□□□□ □□ □□□□. QGIS□ □ □□□□ □□□□□□(□□□ □□□ :doc:`importing_spreadsheets_csv`□ □□□□). □□ □□□ --> □□□□ □□□ □□□ □□□ :menuselection:`Layer --> Add Delimited Text Layer`□ □□□□□.

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

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

4. 이제, `Coordinate Reference System (CRS)`를 선택합니다. British National Grid . CRS를 :guilabel:`OSGB 1936 / British National Grid`. :guilabel:`OK`를 클릭합니다.

5. 이제 QGIS.

6. . . .
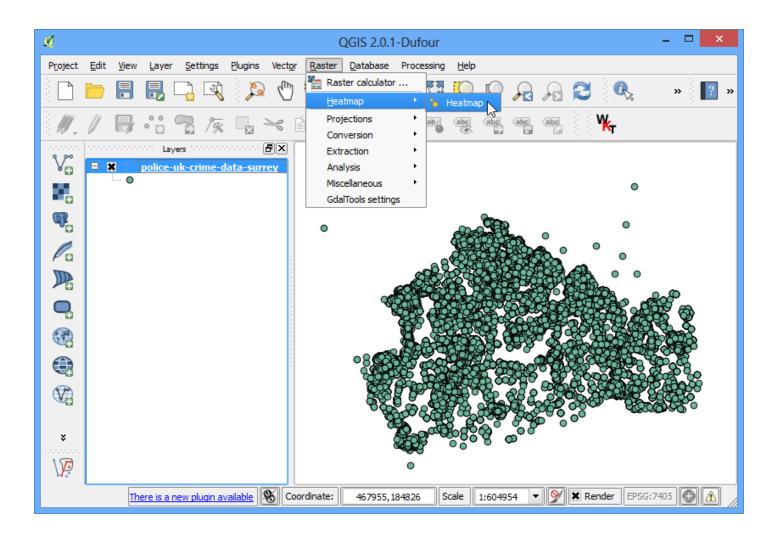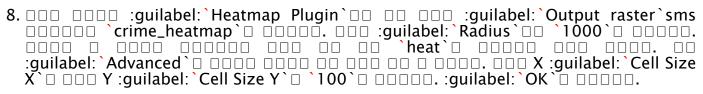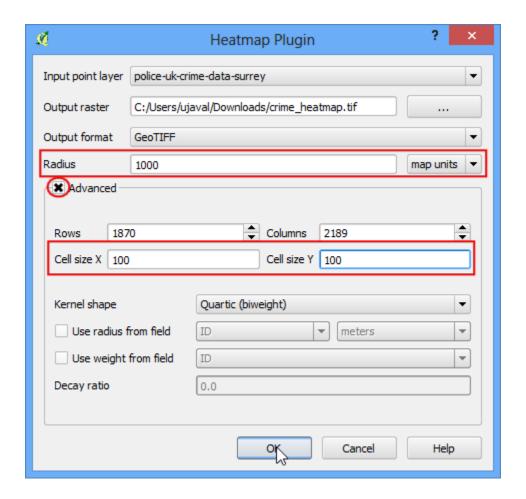
7. To create the heatmap, you need to enable a core plugin named **Heatmap**. See □□□□ □□□□ to know how to enable built-in plugins. Once you have enabled the plugin, go to Raster ‣ Heatmap ‣ Heatmap.

> **Warning**
>
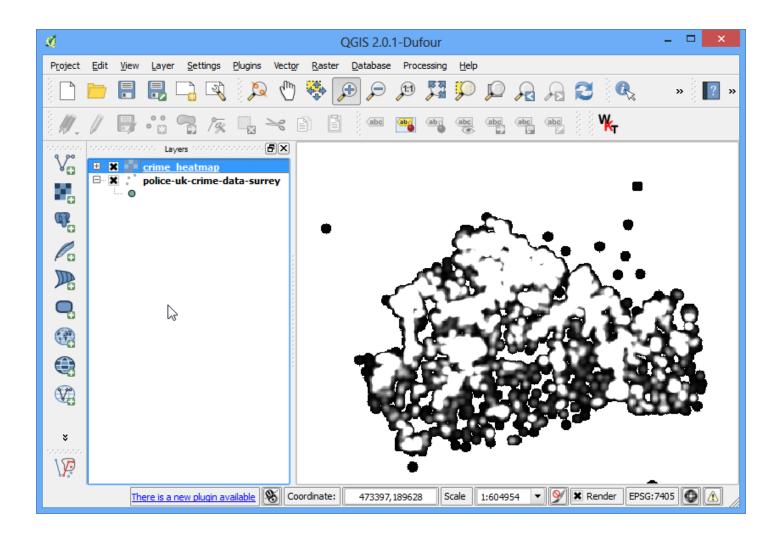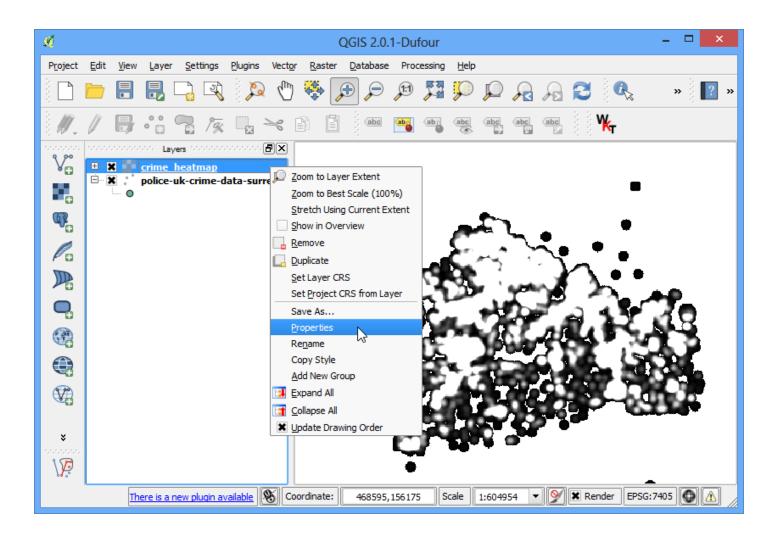> The Heatmap plugin has a bug in QGIS 2.8.1. See this post for workarounds.

8. :guilabel:`Heatmap Plugin` :guilabel:`Output raster`sms `crime_heatmap`. 그리고 :guilabel:`Radius`값을 `1000`. `heat`. 이제 :guilabel:`Advanced`. X :guilabel:`Cell Size X` Y :guilabel:`Cell Size Y`를 `100`. :guilabel:`OK`.

9. .

10. :guilabel:`Properties`를 선택합니다.

11. Style` :guilabel:`Render type` :guilabel:`Singleband
    pseudocolor`을 선택합니다. , 최소/ :guilabel:`Load min/max values
     Accuracy` :guilabel:`Actual (slower)`
    :guilabel:`Load`을 클릭합니다. .
    . :guilabel:`Generate new color map`에서는
     :guilabel:`YlOrRd (Yellow-Orange-Red) :guilabel:`Classify`을
    클릭합니다. :guilabel:`OK`를 클릭합니다.

12. . :guilabel:`Identify`. . , (– 1000m).

13. . . . *hotspots* . *hotspots* . --> 래스터 계산기 :menuselection:`Raster --> Raster Calculator`로 갑니다.

14. . . 5. Raster calculator` `crime_hotspots`.  :guilabel:`Raster bands` :guilabel:`crime_heatmap@1 Raster calculator expression . *"crime_heatmap@1" > 5`.  :guilabel:`Add result to project :guilabel:`OK`.*

15. QGIS. 0 1. 5 1 0이 됩니다. --> 에서 --> 래스터를 / :menuselection:`Raster --> Conversion --> Polygonize (Raster to Vector)`.

16. 출력 레이어는 crime_hotspots_vector`.  :guilabel:`Field name` :guilabel:`Load into canvas when finished . :guilabel:`OK`를 클릭합니다.

17. QGIS. . 0과 1. 0. . :guilabel:`Open Attribute Table`.

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

19. `"DN" = 1` :guilabel:`Select`을 클릭합니다. :guilabel:`Close`를 클릭합니다.

20. QGIS . . :guilabel:`Save Selection As...`을 선택합니다.

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

22. . `hotspots`. *intelligence*.