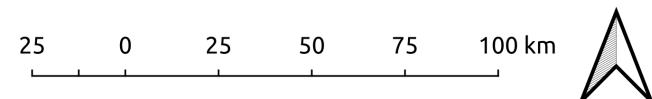
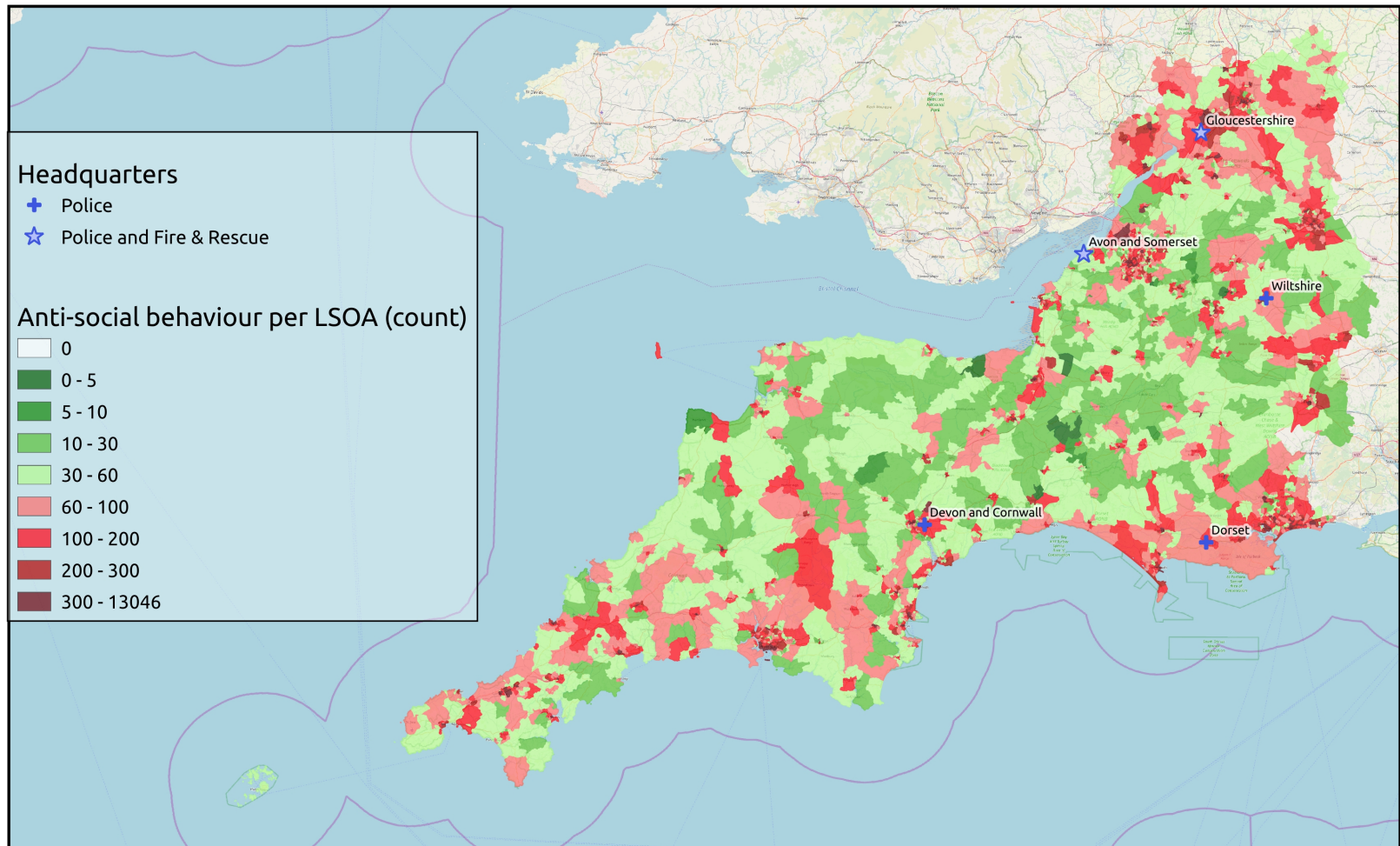


Our example: Crime map

Anti-social behaviour in the South West of England per LSOA (June 2016 - June 2019)



Map recipe

1) Mapping software: QGIS



2) Your own data: csv files



sw_5forces_street_by_lsoa.csv



sw_5forces_stop-and-search.csv



headquarters.csv

3) Shapefile: polygons



LSOA_2011_sw5forces_BGC_V2.shp

1) Mapping software: QGIS

Where get it from? <https://qgis.org/en/site/forusers/download.html>

Tutorials: https://docs.qgis.org/3.4/en/docs/training_manual/index.html



2) Your own data: csv files

Where get it from? Usually your data & why want to make a map

Point data: contains latitude & longitude

	A	B	C	D	E	F
1	Head quarters	Address	Postcode	Latitude	Longitude	Fire_Rescue_HQ_site
2	Avon and Somerset	Valley Rd, Portishead, Bristol	BS20 8JJ	51.47575	-2.79543	TRUE
3	Dorset	Winfrith Dorchester, Dorset	DT2 8DZ	50.67927	-2.2467	FALSE
4	Devon and Cornwall	Middlemoor, Exeter, Devon	EX2 7HQ	50.71915	-3.47813	FALSE
5	Wiltshire	London Rd, Devizes	SN10 2DN	51.35609	-1.98371	FALSE
6	Gloucestershire	1 Waterwells Dr, Quedgeley, Gloucester	GL2 2AN	51.81453	-2.27618	TRUE



headquarters.csv

	A	B	C	D	E	F	G	H
1	Type	Date	Part of a policing op	Policing op	Latitude	Longitude	Gender	Age rang
2	Person search	2019-06-01T00:02:00+00:00			51.496817	-2.580971	Male	25-34
3	Person search	2019-06-01T01:15:00+00:00			51.454085	-2.599742	Male	25-34
4	Person search	2019-06-01T01:27:00+00:00			50.983714	-3.219592	Male	25-34
5	Person search	2019-06-01T01:27:00+00:00			50.983714	-3.219592	Male	over 34
6	Person search	2019-06-01T01:27:00+00:00			50.983714	-3.219592	Male	over 34



sw_5forces_stop-and-search.csv

Polygon data: contains a unique ID that is also contained in the shapefile

	A	B	C	D	E	F	G	H	I	J	K
1	LSOA code	Anti-social behaviour	Bicycle theft	Burglary	Crime type	Criminal damage and arson	Drugs	Other crime	Other theft	Possession of weapons	Public or
2	E01000040	0	0	0	0	0	0	0	0	0	0
3	E01000055	0	0	0	0	0	0	0	0	0	0
4	E01000547	0	0	0	0	0	0	0	0	0	0
5	E01000568	0	0	0	0	0	0	0	0	0	0
6	E01000689	0	0	0	0	0	0	0	1	0	0
7	E01000765	0	0	0	0	0	0	0	0	0	0
8	E01000946	0	1	0	0	0	0	0	0	0	0
9	E01000993	0	0	0	0	0	0	0	0	0	0
10	E01001107	0	0	0	0	0	0	0	0	0	0
11	E01001202	0	0	0	0	1	0	0	0	1	0
12	E01001249	0	0	0	0	0	0	0	0	0	0



sw_5forces_street_by_lsoa.csv

3) Shapefile: polygons

Where get it from? Google it! (please be aware of T&Cs)

Google search results for "shapefile Isoa".

About 2,760 results (0.78 seconds)

Lower Layer Super Output Area (LSOA) boundaries - Datasets
https://data.gov.uk/dataset/lower_layer_super_output_area_lsoa_boundaries
Digital SOA boundaries (map files) in Shapefile format or MID/MIF format Source: Office for National Statistics (ONS) Publisher: Neighbourhood Statistics ...









2011 lower layer super output areas (LSOA) boundary - ShareGeo Open
<https://www.sharegeo.ac.uk/handle/10672/320>
2011 lower layer super output areas (LSOA) boundary. Show full item record ... URL: <http://hdl.handle.net/10672/320>. Date: 2012-10-30. Format: ESRI Shapefile ...

UK Data Service Census » Census boundary data
<https://census.ukdataservice.ac.uk/use-data/guides/boundary-data>
Figure 5b: 2011 Census population by all Lower Layer Super Output Areas within Leeds Local Authority. The same census statistic can be analysed at different ...

Data sites I've used

- https://data.gov.uk/dataset/lower_layer_super_output_area_lsoa_boundaries
 - <https://geoportal.statistics.gov.uk/geoportal/catalog/main/home.page>
 - <http://www.opendoorlogistics.com/downloads/>
 - <http://digimap.edina.ac.uk/datadownload/osdownload>
- Public Sector Mapping Agreements (PSMA) data requests to Digimap Edina OS opendata



	LSOA_2001_EW_BGC_V2.dbf	DBF File
	LSOA_2001_EW_BGC_V2.prj	PRJ File
	LSOA_2001_EW_BGC_V2.sbn	SBN File
	LSOA_2001_EW_BGC_V2.sbx	SBX File
	LSOA_2001_EW_BGC_V2.shp	SHP File
	LSOA_2001_EW_BGC_V2.shp.xml	XML Document
	LSOA_2001_EW_BGC_V2.shx	SHX File
	LSOA_2001_EW_BGC_V2_metadata.xml	XML Document

 Lower_layer_super_output_areas_(E+W)_2001_Boundaries_(Generalised_Clippped)_V2.zip

Table join

(joining your data to a shapefile)

Both files contain a unique ID

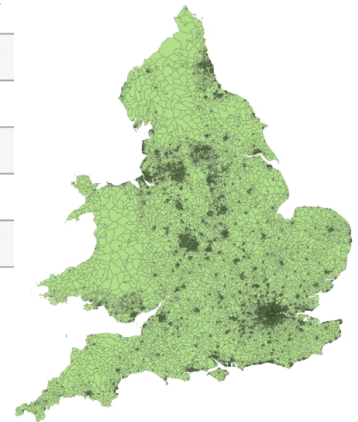
**Spatial data
(.csv)**

	A	B	C	D	E	F
1	LSOA code	Anti-social behaviour	Bicycle theft	Burglary	Crime type	Criminal damage
2	E01000040	0	0	0	0	
3	E01000055	0	0	0	0	
4	E01000547	0	0	0	0	
5	E01000568	0	0	0	0	
6	E01000689	0	0	0	0	
7	E01000765					
8	E01000946					
9	E01000993	0	0	0	0	
10	E01001107	0	0	0	0	
11	E01001202	0	0	0	0	
12	E01001240	0	0	0	0	

Shapefile (.dbf)

	LSOA01CD	LSOA01NM	LSOA01NMW
0	E01000001	City of London 0...	City of London 0...
1	E01000002	City of London 0...	City of London 0...
2	E01000003	City of London 0...	City of London 0...
3	E01000004	City of London 0...	City of London 0...
4	E01000005	City of London 0...	City of London 0...
5	E01000006	Barking and Dag...	Barking and Dag...
6	E01000007	Barking and Dag...	Barking and Dag...
7	E01000008	Barking and Dag...	Barking and Dag...
8	E01000009	Barking and Dag...	Barking and Dag...
9	E01000010	Barking and Dag...	Barking and Dag...
10	E01000011	Barking and Dag...	Barking and Dag...

Match & Join



Let's play