

Code for Estimating the Effects of Crime Maps (Pre-Registration/Protocol)

Code used in the protocol for the estimating the effect of crime maps project (<https://osf.io/preprints/socarxiv/9zupw/>). Include code for the supplementary materials.

How to use

The steps are:

1. Set up the directory structure
2. Download the raw data public domain data
3. Run R scripts

Tested under R.4.0.3 and windows 10. Test machine has an i7-4770 CPU with 16GB RAM.

Folder structure

File directory structure is this:

master folder /// for data and code

|-> \code folder //// this folder

|-> \code folder\saved cleaned data /// find cleaned outputs here

|-> \data /// raw data folder; see data sources

Data sources

The raw data comes from:

- [police.uk](https://data.police.uk/data/archive/) archival data: <https://data.police.uk/data/archive/> (Dec 2013: checksum d24b0ed41359af22a7538604cfcfef74)
- police force boundary data: <https://data.police.uk/data/boundaries/>
- house prices: <https://www.gov.uk/guidance/about-the-price-paid-data>
- ONS postcode lookup: <https://geoportal.statistics.gov.uk/datasets/7606baba633d4bbca3f2510ab78acf61>

Code to replicate

Run 00-utils.R first to load in dependencies and check file paths. All file paths are relative (to this folder).

The scripts need to create the inferred list of snap points (in order):

- makeFile01 (South Yorkshire only; amend line 63 to use the entire country)
- makeFile03
- makeFile06 (Check output in /saved cleaned data folder)

To recreate the analysis in supplement, run these additional scripts:

- makeFile02
- makeFile03
- makeFile04
- makeFile06
- makeFile07
- preReg01
- preReg02