

Package: geographr (via r-universe)

October 4, 2026

Title R package for mapping UK geographies

Version 1.0.1

Description A package to distribute and compute on UK geographical data.

License MIT + file LICENSE

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Depends R (>= 4.1.0)

Imports dplyr, janitor, rlang, sf, tibble

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

URL <https://humaniverse.github.io/geographr/>

Config/pak/sysreqs libabsl-dev cmake libgdal-dev gdal-bin libgeos-dev libicu-dev libssl-dev libproj-dev libsqlite3-dev libudunits2-dev

Repository <https://humaniverse.r-universe.dev>

Date/Publication 2026-06-29 10:48:55 UTC

RemoteUrl <https://github.com/humaniverse/geographr>

RemoteRef HEAD

RemoteSha c026be5cc76cb576358082b53f1f13d69ab577ae

Contents

aggregate_lba_isoas	4
boundaries_ccg21	5
boundaries_countries20	5
boundaries_dz11	6
boundaries_epg04	6

boundaries_hb19	7
boundaries_icb22	7
boundaries_iz11	8
boundaries_lhb20	8
boundaries_lhb22	9
boundaries_lrf20	9
boundaries_lrp19	10
boundaries_lsoa11	10
boundaries_lsoa21	11
boundaries_ltla19	11
boundaries_ltla20	12
boundaries_ltla21	12
boundaries_ltla24	13
boundaries_msoa11	14
boundaries_msoa21	14
boundaries_msoa21_iz11_sdz21	15
boundaries_pfa20	15
boundaries_region21	16
boundaries_sdz21	17
boundaries_soa11	17
boundaries_stp21	18
boundaries_trusts_ni18	18
boundaries_utla19	19
boundaries_utla20	19
boundaries_utla21	20
boundaries_vcsep22	20
boundaries_wards21	21
boundaries_wards22	21
calculate_extent	22
calculate_proportion	23
lookup_dz01_dz11	24
lookup_dz11_iz11_ltla20	24
lookup_dz11_ltla19_hb19	25
lookup_dz21_sdz21_dea14_lgd14	25
lookup_lsoa01_lsoa11	26
lookup_lsoa11_ccg21_stp21_ltla21	27
lookup_lsoa11_lsoa21_ltla22	27
lookup_lsoa11_ltla18	28
lookup_lsoa11_ltla19	29
lookup_lsoa11_ltla20	29
lookup_lsoa11_ltla21	30
lookup_lsoa11_msoa11	30
lookup_lsoa11_sicbl22_icb22_ltla22	31
lookup_lsoa11_ward17	32
lookup_lsoa21_icb24	32
lookup_lsoa21_ward24_ltla24	33
lookup_ltla_ltla	33
lookup_ltla19_brc	34

lookup_ltla19_cauth19	35
lookup_ltla19_region19	36
lookup_ltla19_utla19	36
lookup_ltla20_cauth20	37
lookup_ltla20_region20	37
lookup_ltla20_utla20	38
lookup_ltla21_brc	39
lookup_ltla21_cauth21	39
lookup_ltla21_fra21	40
lookup_ltla21_hsct18	40
lookup_ltla21_lhb22	41
lookup_ltla21_region21	41
lookup_ltla21_utla21	42
lookup_ltla21_vcsep22	43
lookup_ltla22_ltla23	43
lookup_ltla23_cauth23	44
lookup_ltla23_region23	44
lookup_ltla23_utla23	45
lookup_ltla24_csp24_pfa24	46
lookup_ltla24_fra24	46
lookup_ltla24_region24	47
lookup_msoa11_ltla19	48
lookup_msoa11_ltla20	48
lookup_msoa11_ltla21	49
lookup_msoa11_msoa21_ltla22	49
lookup_msoa11_ward17	50
lookup_msoa21_ward17	51
lookup_nhs_trusts22_icb22	51
lookup_nhs_trusts22_ltla21	52
lookup_nhs_trusts22_msoa11	53
lookup_nhs_trusts22_nhs_region21	54
lookup_nhs_trusts22_stp21	54
lookup_postcode_dz21_sdz21_dea14_lgd14	55
lookup_postcode_oa_lsoa_msoa_ltla_2025	56
lookup_sa11_soal1_lgd18	56
lookup_soal1_lgd14	57
lookup_trust_trust	58
lookup_ward21_ltla21	58
names_codes_hb19	59
points_hospitals22	59
points_nhs_trusts22	60
points_scotland_hospitals24	60
ruc11_lsoa11	61
ruc11_msoa11	62
ruc11_wards11	62
ruc16_dz11	63
ruc21_lsoa21	63
ruc21_ltla24	64

ruc21_msoa21 64

Index 66

aggregate_lba_lsoas	Aggregate LSOAs’21 to LSOA’11 for Left Behind Areas - England and Wales
---------------------	---

Description

Changes were made in England and Wales to 2011 LSOA codes in 2021 to reflect population and household changes. Change codes:

- U = Unchanged - 31,810 LSOAs remained unchanged from 2011 to 2021
- S = Split - 834 LSOAs were split from 2011 to 2021 into two or more
- M = Merged - 194 LSOAs were merged from 2011 to 2021 with one or more
- X = Fragmented - 6 LSOAs were fragmented/redesigned from 2011 to 2021

Usage

```
aggregate_lba_lsoas(data)
```

Arguments

data Dataframe containing 2021 LSOA codes with boolean LBA data

Details

Aggregation strategy going from 2021 codes to 2011 codes:

- change_code == "U": no action required
- change_code == "S": if ANY of the 2021 LSOAs resulting from the split is left behind, 2011 LSOA is considered left-behind
- change_code == "M": 2011 LSOA’s inherit the left-behind characteristics of the 2021 LSOA that resulted from the merge: if the 2021 LSOA is left behind, all corresponding 2011 LSOA’s are considered left-behind, and vice versa
- change_code == "X": 2011 LSOA’s inherit the left behind characteristics of their corresponding 2021 LSOA. Then group by 2011 LSOA, if any is left-behind, consider the LSOA left-behind

Value

Dataframe containing the aggregated 2011 LSOA codes

boundaries_ccg21	<i>Clinical Commissioning Groups (April 2021)</i>
------------------	---

Description

A data set containing 2021 Clinical Commissioning Group (CCG) geometries and their associated names and codes. Boundaries are ultra generalised (500m).

Usage

boundaries_ccg21

Format

A data frame of class "sf" with 106 rows and 3 variables:

ccg21_name CCG name

ccg21_code CCG code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_countries20	<i>Countries (December 2020)</i>
------------------------	----------------------------------

Description

A data set containing 2020 Country geometries and their associated names and codes. Boundaries are Ultra Generalised (500m) - clipped to the coastline (Mean High Water mark).

Usage

boundaries_countries20

Format

A data frame of class "sf" with 4 rows and 3 variables:

country20_name country name

country20_code Country code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_dz11	<i>Data Zones (2011)</i>
-----------------	--------------------------

Description

A data set containing 2011 Scottish Data Zone geometries and their associated names and codes.

Usage

boundaries_dz11

Format

A data frame of class "sf" with 6,976 rows and 3 variables:

dz11_name Data Zone name

dz11_code Data Zone code

geometry multipolygon coordinates ...

Source

<https://spatialdata.gov.scot/>

boundaries_epg04	<i>Emergency Preparedness Groups, Northern Ireland (2004)</i>
------------------	---

Description

A data set containing 2004 NI Emergency Preparedness Group geometries and their associated names. Boundaries created by dissolving LGD geometries, from ONS.

Usage

boundaries_epg04

Format

A data frame of class "sf" with 3 rows and 2 variables:

epg04_name Emergency Preparedness Group name

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_hb19	<i>Health Boards (2019)</i>
-----------------	-----------------------------

Description

A data set containing 2019 NHS Health Board geometries and their associated names and codes.

Usage

boundaries_hb19

Format

A data frame of class "sf" with 14 rows and 3 variables:

hb19_name Health Board name

hb19_code Health Board code

geometry multipolygon coordinates ...

Source

<https://spatialdata.gov.scot/>

boundaries_icb22	<i>Integrated Care Boards (2022)</i>
------------------	--------------------------------------

Description

A data set containing July 2022 NHS Integrated Care Board geometries and their associated names and codes.

Usage

boundaries_icb22

Format

A data frame of class "sf" with 42 rows and 3 variables:

icb22_name Integrated Care Board name

icb22_code Integrated Care Board code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_iz11	<i>Intermediate Zones (2011)</i>
-----------------	----------------------------------

Description

A data set containing 2011 Scottish Intermediate Zone geometries and their associated names and codes.

Usage

boundaries_iz11

Format

A data frame of class "sf" with 1,279 rows and 3 variables:

iz11_name Intermediate Zone name

iz11_code Intermediate Zone code

geometry multipolygon coordinates ...

Source

<https://spatialdata.gov.scot/>

boundaries_lhb20	<i>Wales Local Health Boards (2020)</i>
------------------	---

Description

A data set containing 2020 Local Health Board geometries for Wales and their associated names and codes.

Usage

boundaries_lhb20

Format

A data frame of class "sf" with 7 rows and 3 variables:

lhb20_name Local Health Board name

lhb20_code Local Health Board code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_lhb22	<i>Wales Local Health Boards (2022)</i>
------------------	---

Description

A data set containing 2022 Local Health Board geometries for Wales and their associated names and codes.

Usage

boundaries_lhb22

Format

A data frame of class "sf" with 7 rows and 3 variables:

lhb22_name Local Health Board name

lhb22_code Local Health Board code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_lrf20	<i>England and Wales Local Resilience Forums (2020)</i>
------------------	---

Description

A data set containing 2020 Local Resilience Forum geometries for England and Wales and their associated names and codes.

Usage

boundaries_lrf20

Format

A data frame of class "sf" with 42 rows and 3 variables:

lrf20_name Local Resilience Forum name

lrf20_code Local Resilience Forum code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_lrp19	<i>Scotland Local Resilience Partnerships (2019)</i>
------------------	--

Description

A data set containing 2019 Local Resilience Partnership geometries for Scotland and their associated names and codes.

Usage

```
boundaries_lrp19
```

Format

A data frame of class "sf" with 12 rows and 3 variables:

lrp19_name Local Resilience Partnership name

lrp19_code Local Resilience Partnership code

geometry multipolygon coordinates ...

Source

<https://data.gov.uk/>

boundaries_lsoa11	<i>Lower Layer Super Output Areas (2011)</i>
-------------------	--

Description

A data set containing 2011 Lower Super Output Area (LSOA) geometries and their associated names and codes. Full clipped boundaries were simplified using the Visvalingam algorithm set to a weighting of 0.7 with a retaining proportion of 0.895 points.

Usage

```
boundaries_lsoa11
```

Format

A data frame of class "sf" with 34,753 rows and 3 variables:

lsoa11_name LSOA name

lsoa11_code LSOA code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_lsoa21	<i>Lower Layer Super Output Areas (2021)</i>
-------------------	--

Description

A data set containing 2021 Lower Super Output Area (LSOA) geometries and their associated names and codes. Full clipped boundaries were simplified using the Visvalingam algorithm set to a weighting of 0.7 with a retaining proportion of 0.895 points.

Usage

```
boundaries_lsoa21
```

Format

A data frame of class "sf" with 35,672 rows and 3 variables:

lsoa21_name LSOA name

lsoa21_code LSOA code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_ltl19	<i>Local Authority Districts (December 2019)</i>
------------------	--

Description

A data set containing 2019 Local Authority Districts (LAD) geometries and their associated names and codes. Boundaries are Ultra Generalised (500m) - clipped to the coastline (Mean High Water mark).

Usage

```
boundaries_ltl19
```

Format

A data frame of class "sf" with 382 rows and 3 variables:

ltl19_name LAD name

ltl19_code LAD code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_ltla20	<i>Local Authority Districts (December 2020)</i>
-------------------	--

Description

A data set containing 2020 Local Authority Districts (LAD) geometries and their associated names and codes. Boundaries are Ultra Generalised (500m) - clipped to the coastline (Mean High Water mark).

Usage

boundaries_ltla20

Format

A data frame of class "sf" with 379 rows and 3 variables:

ltla20_name LAD name

ltla20_code LAD code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_ltla21	<i>Local Authority Districts (December 2021)</i>
-------------------	--

Description

A data set containing 2021 Local Authority Districts (LAD) geometries and their associated names and codes. Boundaries are Ultra Generalised (500m) - clipped to the coastline (Mean High Water mark).

Usage

boundaries_ltla21

Format

A data frame of class "sf" with 374 rows and 3 variables:

- ltla21_name** LAD name
- ltla21_code** LAD code
- geometry** multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_ltla24	<i>Local Authority Districts (July 2024)</i>
-------------------	--

Description

A data set containing 2024 Local Authority Districts (LAD) geometries and their associated names and codes. Boundaries are Ultra Generalised (500m) - clipped to the coastline (Mean High Water mark).

Usage

boundaries_ltla24

Format

A data frame of class "sf" with 361 rows and 3 variables:

- ltla24_name** LAD name
- ltla24_code** LAD code
- geometry** multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_msoa11	<i>Middle Layer Super Output Areas (2011)</i>
-------------------	---

Description

A data set containing 2011 Middle Super Output Area (MSOA) geometries and their associated names and codes. Super generalised (200m) boundaries were simplified using the Visvalingam algorithm set to a weighting of 0.7 with a retaining proportion of 0.05 points.

Usage

boundaries_msoa11

Format

A data frame of class "sf" with 7,201 rows and 3 variables:

msoa11_name MSOA name

msoa11_code MSOA code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_msoa21	<i>Middle Layer Super Output Areas (2021)</i>
-------------------	---

Description

A data set containing 2021 Middle Super Output Area (MSOA) geometries and their associated names and codes. Super generalised (200m) boundaries were simplified using the Visvalingam algorithm set to a weighting of 0.7 with a retaining proportion of 0.05 points.

Usage

boundaries_msoa21

Format

A data frame of class "sf" with 7,264 rows and 3 variables:

msoa21_name MSOA name

msoa21_code MSOA code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_msoa21_iz11_sdz21

Middle Layer Super Output Areas equivalents for the UK

Description

A data set containing Middle Super Output Area (MSOA) equivalent geometries and their associated names and codes for the UK. Super generalised (200m) boundaries were simplified using the Visvalingam algorithm set to a weighting of 0.7 with a retaining proportion of 0.05 points.

Usage

boundaries_msoa21_iz11_sdz21

Format

A data frame of class "sf" with 9,393 rows and 3 variables:

msoa21_name MSOA name

msoa21_code MSOA code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_pfa20

Police Force Areas (2020)

Description

A data set containing 2020 Police Force Area geometries for England and Wales and their associated names and codes.

Usage

boundaries_pfa20

Format

A data frame of class "sf" with 43 rows and 3 variables:

pfa20_name Police Force Area name

pfa20_code Police Force Area code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_region21	<i>Regions (December 2021)</i>
---------------------	--------------------------------

Description

A data set containing December 2021 England Region geometries and their associated names and codes.

Usage

boundaries_region21

Format

A data frame of class "sf" with 890 rows and 3 variables:

region21_name Region name

region21_code Region code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_sdz21	<i>Super Data Zones (2021)</i>
------------------	--------------------------------

Description

A data set containing 2021 Northern Ireland Super Data Zones geometries and their associated names and codes as used following the 2021 Census results.

Usage

boundaries_sdz21

Format

A data frame of class "sf" with 850 rows and 3 variables:

sdz21_name Super Data Zone name
sdz21_code Super Data Zone code
geometry multipolygon coordinates ...

Source

<https://www.nisra.gov.uk/>

boundaries_soa11	<i>Super Output Areas (2011)</i>
------------------	----------------------------------

Description

A data set containing 2011 Northern Ireland Super Output Area geometries and their associated names and codes as used following the 2011 Census results.

Usage

boundaries_soa11

Format

A data frame of class "sf" with 890 rows and 3 variables:

soa11_name Super Output Area name
soa11_code Super Output Area code
geometry multipolygon coordinates ...

Source

<https://www.nisra.gov.uk/>

boundaries_stp21	<i>Sustainability and Transformation Partnerships (April 2021)</i>
------------------	--

Description

A data set containing 2021 Sustainability and Transformation Partnerships (STP) geometries and their associated names and codes. Boundaries are ultra generalised (500m).

Usage

boundaries_stp21

Format

A data frame of class "sf" with 42 rows and 3 variables:

stp21_name STP name

stp21_code STP code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_trusts_ni18	<i>Northern Ireland Health and Social Care Trusts (2017)</i>
------------------------	--

Description

A data set containing 2017 Health and Social Care Trust geometries for Northern Ireland and their associated names and codes.

Usage

boundaries_trusts_ni18

Format

A data frame of class "sf" with 5 rows and 3 variables:

trust18_name Health and Social Care Trust name

trust18_code Health and Social Care Trust code

geometry multipolygon coordinates ...

Source

<https://www.opendatani.gov.uk/>

boundaries_utla19	<i>Counties and Unitary Authorities (December 2019)</i>
-------------------	---

Description

A data set containing 2019 County and Unitary Authority (UA) geometries and their associated names and codes. Boundaries are Ultra Generalised (500m) - clipped to the coastline (Mean High Water mark).

Usage

```
boundaries_utla19
```

Format

A data frame of class "sf" with 216 rows and 3 variables:

utla19_name county and UA name

utla19_code county and UA code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_utla20	<i>Counties and Unitary Authorities (December 2020)</i>
-------------------	---

Description

A data set containing 2020 County and Unitary Authority (UA) geometries and their associated names and codes. Boundaries are Ultra Generalised (500m) - clipped to the coastline (Mean High Water mark).

Usage

```
boundaries_utla20
```

Format

A data frame of class "sf" with 216 rows and 3 variables:

utla20_name county and UA name

utla20_code county and UA code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_utla21	<i>Counties and Unitary Authorities (May 2021)</i>
-------------------	--

Description

A data set containing 2021 County and Unitary Authority (UA) geometries and their associated names and codes. Boundaries are Ultra Generalised (500m) - clipped to the coastline (Mean High Water mark).

Usage

boundaries_utla21

Format

A data frame of class "sf" with 217 rows and 3 variables:

utla21_name county and UA name
utla21_code county and UA code
geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_vcsep22	<i>VCSEP regions (2022).</i>
--------------------	------------------------------

Description

A data set containing geometries for the Voluntary and Community Sector Emergency Partnership regions

Usage

boundaries_vcsep22

Format

A data frame of class "tbl" with 5 rows and 2 variables:

vcsep_region VCSEP region name
geometry multipolygon coordinates ...

Source

https://github.com/VCS-Emergencies-Partnership/ad-hoc-analysis/tree/main/analysis/vcsep_regions_boundaries

boundaries_wards21	<i>Wards / Electoral Divisions (December 2021)</i>
--------------------	--

Description

A data set containing 2021 Ward / Electoral Division geometries and their associated names and codes. Boundaries are Super generalised (200m) - clipped to the coastline (Mean High Water mark).

Usage

boundaries_wards21

Format

A data frame of class "sf" with 8,694 rows and 3 variables:

ward21_name ward name

ward21_code ward code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

boundaries_wards22	<i>Wards / Electoral Divisions (December 2022)</i>
--------------------	--

Description

A data set containing 2022 Ward / Electoral Division geometries and their associated names and codes. Boundaries are Super generalised (200m) - clipped to the coastline (Mean High Water mark).

Usage

boundaries_wards22

Format

A data frame of class "sf" with 8,483 rows and 3 variables:

ward22_name ward name

ward22_code ward code

geometry multipolygon coordinates ...

Source

<https://geoportal.statistics.gov.uk/>

calculate_extent	<i>Calculate the 'extent' scores when aggregating up small areas</i>
------------------	--

Description

"Extent" is the proportion of the local population that live in areas classified as among the most deprived in the higher geography. The calculation of extent is taken from the IMD technical report Appendix N:

Usage

```
calculate_extent(
  data,
  var,
  higher_level_geography,
  population,
  weight_high_scores = TRUE
)
```

Arguments

data	Data frame containing a variable to be aggregated, lower level geography population estimates, and a higher level geographical grouping variable
var	Name of the variable in the data frame containing the variable to be aggregated (e.g., score) for the lower level geography
higher_level_geography	Name of the variable in the data frame containing the higher level geography names/codes
population	Name of the variable in the data frame containing the population estimates of the lower level geography
weight_high_scores	If TRUE higher scores are weighted, else lower scores are weighted. For indicators like 'Alcohol Misuse' and 'Ambulance Wait Time' this should be set to TRUE. This is because higher values in these outcomes indicate worse outcomes (higher vulnerability and lower capacity) and this is where the weighting should be focused. For indicators like 'Physical Activity' and 'Bed Availability' it should be set to FALSE. This is because lower values in these outcomes indicate worse outcomes (higher vulnerability and lower capacity) and this is where the weighting should be focused.

Details

"The population living in the most deprived 11 to 30 per cent of Lower-layer Super Output Areas receive a sliding weight, ranging from 0.95 for those in the most deprived eleventh percentile, to 0.05 for those in the most deprived thirtieth percentile. In practice this means that the weight starts from 0.95 in the most deprived eleventh percentile, and then decreases by $(0.95-0.05)/19$ for each of the subsequent nineteen percentiles until it reaches 0.05 for the most deprived thirtieth percentile, and zero for areas outside the most deprived 30 per cent"

The direction of the scale of data inputted by the function always matches that of the data outputted. For example if data is inputted into the function where high scores equals high vulnerability, the outputted data set will hold this relationship true.

calculate_proportion	<i>Calculate proportion of small areas in the higher-level geography that are within the 10% most deprived areas in the nation.</i>
----------------------	---

Description

Calculate proportion of small areas in the higher-level geography that are within the 10% most deprived areas in the nation.

Usage

```
calculate_proportion(data, var, higher_level_geography)
```

Arguments

data	Data frame containing a variable to be aggregated and a higher level geographical grouping variable
var	Name of the variable in the data frame for which you want to calculate proportions. It must have only two possible values
higher_level_geography	Name of the variable in the data frame containing the higher level geography names/codes

Examples

```
## Not run:
  calculate_proportion(IMD::imd_england_lsoa, IMD_decile, msoa_code, n_people)

## End(Not run)
```

lookup_dz01_dz11	<i>Data Zone (2001) to Data Zone (2011) Lookup</i>
------------------	--

Description

A data set containing a lookup between Data Zone 2001 and 2011 codes. This data was constructed from the 2024-1 Scottish Postcode Directory.

Usage

lookup_dz01_dz11

Format

A data frame of class "tbl" with 10,437 rows and 2 variables:

- dz01_code** Data Zone code (2001)
- dz11_code** Data Zone code (2011) ...

Source

<https://www.nrscotland.gov.uk>

lookup_dz11_iz11_ltl20	<i>Data Zone (2011) to Intermediate Zone (2011) to LAD (December 2019) Lookup</i>
------------------------	---

Description

A data set containing a lookup between Data Zones, Intermediate Zones and Council Areas in Scotland

Usage

lookup_dz11_iz11_ltl20

Format

A data frame of class "tbl" with 6,976 rows and 6 variables:

- dz11_name** DZ name
- dz11_code** DZ code
- iz11_name** IZ name
- iz11_code** IZ code
- ltl20_name** LAD name
- ltl20_code** LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_dz11_lta19_hb19

*Data Zone (2011) to Local Authority (2019) to Health Board (2019)
Lookup*

Description

A data set containing a lookup between Data Zones, Local Authorities (also called Council Areas) and Health Boards in Scotland

Usage

lookup_dz11_lta19_hb19

Format

A data frame of class "tbl" with 6,976 rows and 3 variables:

dz11_code Data zone (2011) code

lta19_code Local authority (2019) code

hb19_code Health board (2019) code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_dz21_sdz21_dea14_lgd14

*Data Zone (2021) to Super Data Zone (2021) to District Electoral
Areas (2019) to Local Government Districts (2014) Lookup*

Description

A data set containing a lookup between Data Zones (Output Areas), Super Data Zones (LSOA), District Electoral Areas and Local Government Districts (Local Authority) in Northern Ireland

Usage

lookup_dz21_sdz21_dea14_lgd14

Format

A data frame of class "tbl" with 3,780 rows and 8 variables:

dz21_code Data zone (2021) code (comparable to Output Areas)

dz21_name Data zone (2021) name

sdz21_code Super data zone (2021) code (comparable to LSOA / Scottish Data Zone)

sdz21_name Super data zone (2021) name

dea14_code District Electoral Areas (2019) code

dea14_name District Electoral Areas (2019) name

lgd14_code Local Government District (2014) code (comparable to Local Authority)

lgd14_name Local Government District (2014) name ...

Source

<https://nisra.gov.uk/>

lookup_lsoa01_lsoa11 *Lower Layer Super Output Area 2001 to 2011 lookup*

Description

A best fit lookup between lower layer super output areas as at December 2001 and lower layer super output areas and local authority districts as at December 2011 in England and Wales.

Usage

```
lookup_lsoa01_lsoa11
```

Format

A data frame of class "tbl" with 34,917 rows and 5 variables:

lsoa01_name LSOA 2001 name

lsoa01_code LSOA 2001 code

change_code U = no change; S = split; M = merged; X = an irregular and fragmented relationship

lsoa11_name LSOA 2011 name

lsoa11_code LSOA 2011 code

`lookup_lsoa11_ccg21_stp21_lsla21`

Lower Layer Super Output Area (2011) to Clinical Commissioning Group (2021) to Sustainability and Transformation Plan (2021) to Lower Tier Local Authority District (2021) Lookup

Description

A data set containing a lookup between 2011 Lower Layer Super Output Areas to 2021 Clinical Commissioning Group areas to 2021 Sustainability and Transformation Plan areas to 2021 Lower Tier Local Authority Districts.

Usage`lookup_lsoa11_ccg21_stp21_lsla21`**Format**

A data frame of class "tbl" with 32,844 rows and 8 variables:

lsoa11_name LSOA name

lsoa11_code LSOA code

ccg21_name CCG name

ccg21_code CCG code

stp21_name STP name

stp21_code STP code

lsla21_name LSLA name

lsla21_code LSLA code ...

Source

<https://geoportal.statistics.gov.uk/>

`lookup_lsoa11_lsoa21_lsla22`

Lower Layer Super Output Area (2011) to Lower Layer Super Output Area (2021) to LAD (December 2022) Lookup

Description

A data set containing a lookup between 2011 Lower Super Output Areas (LSOA) and 2021 Lower Super Output Areas (LSOA) and 2022 Local Authority Districts (LAD).

Usage

```
lookup_lsoa11_lsoa21_lsla22
```

Format

A data frame of class "tbl" with 35,795 rows and 8 variables:

lsoa11_name LSOA 11 name

lsoa11_code LSOA 11 code

change_code Change code containing U (unchanged from 2011 to 2021), M (merged), S (split) and X (irregular and fragmented change)

lsoa21_name LSOA 21 name

lsoa21_code LSOA 21 code

lsla22_name LSLA name

lsla22_code LSLA code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_lsoa11_lsla18	<i>Lower Layer Super Output Area (2011) to LAD (December 2018) Lookup</i>
----------------------	---

Description

A data set containing a lookup between 2011 Lower Super Output Areas (LSOA) and 2018 Local Authority Districts (LAD).

Usage

```
lookup_lsoa11_lsla18
```

Format

A data frame of class "tbl" with 32,844 rows and 4 variables:

lsoa11_name LSOA name

lsoa11_code LSOA code

lsla18_name LAD name

lsla18_code LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_lsoa11_ltle19	<i>Lower Layer Super Output Area (2011) to LAD (December 2019) Lookup</i>
----------------------	---

Description

A data set containing a lookup between 2011 Lower Super Output Areas (LSOA) and 2019 Local Authority Districts (LAD).

Usage

```
lookup_lsoa11_ltle19
```

Format

A data frame of class "tbl" with 34,753 rows and 4 variables:

lsoa11_name LSOA name

lsoa11_code LSOA code

ltle19_name LAD name

ltle19_code LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_lsoa11_ltle20	<i>Lower Layer Super Output Area (2011) to LAD (December 2020) Lookup</i>
----------------------	---

Description

A data set containing a lookup between 2011 Lower Super Output Areas (LSOA) and 2020 Local Authority Districts (LAD).

Usage

```
lookup_lsoa11_ltle20
```

Format

A data frame of class "tbl" with 34,753 rows and 4 variables:

lsoa11_name LSOA name

lsoa11_code LSOA code

ltle20_name LAD name

ltle20_code LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_lsoa11_ltlea21	<i>Lower Layer Super Output Area (2011) to LAD (December 2021) Lookup</i>
-----------------------	---

Description

A data set containing a lookup between 2011 Lower Super Output Areas (LSOA) and 2021 Local Authority Districts (LAD).

Usage

```
lookup_lsoa11_ltlea21
```

Format

A data frame of class "tbl" with 34,753 rows and 4 variables:

lsoa11_name LSOA name

lsoa11_code LSOA code

ltle21_name LAD name

ltle21_code LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_lsoa11_msoa11	<i>Lower Layer Super Output Area (2011) to Middle Layer Super Output Area (2011) Lookup</i>
----------------------	---

Description

A data set containing a lookup between 2011 Lower (LSOA) and Middle Layer Super Output Areas (MSOA).

Usage

```
lookup_lsoa11_msoa11
```

Format

A data frame of class "tbl" with 41,729 rows and 4 variables:

lsoa11_name LSOA name
lsoa11_code LSOA code
msoa11_name MSOA name
msoa11_code MSOA code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_lsoa11_sicbl22_icb22_ltla22

LSOA (2011) to SICBL (2022) to ICB (2022) to LTLA (2022) Lookup

Description

A data set containing a lookup between 2011 LSOAs, 2022 Sub ICB Locations, 2022 ICBs and 2022 LTLAs in England.

Usage

```
lookup_lsoa11_sicbl22_icb22_ltla22
```

Format

A data frame of class "tbl" with 32,844 rows and 10 variables:

lsoa11_name LSOA 2011 name
lsoa11_code LSOA 2011 code
sicbl22_name Sub ICB Location 2022 name
sicbl22_code Sub ICB Location code 2022 (retains former CCG codes)
sicbl22_code_h Sub ICB Location code 'h' 2022 (retains former CCG codes)
icb22_name ICB 2022 name
icb22_code ICB 2022 code (retains former ICS/STP codes)
icb22_code_h ICB 2022 code 'h' (retains former ICS/STP codes)
ltla22_name LTLA 2022 name
ltla22_code LTLA 2022 code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_lsoa11_ward17	<i>LSOA (2011) to Ward (2017) Lookup</i>
----------------------	--

Description

A data set containing a lookup between 2011 LSOAs and 2021 wards in England and Wales.

Usage

```
lookup_lsoa11_ward17
```

Format

A data frame of class "tbl" with 34,753 rows and 2 variables:

lsoa11_code LSOA 2011 code
ward17_code Ward 2017 code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_lsoa21_icb24	<i>LSOA (2021) to SICBL to ICB to Cancer Alliances to LAD (April 2024) Lookup</i>
---------------------	---

Description

A data set containing a lookup between LSOA (2021), Sub Integrated Care Board Locations (SICBL) and Integrated Care Boards (ICB).

Usage

```
lookup_lsoa21_icb24
```

Format

A data frame of class "tbl" with 33,755 rows and 6 variables:

lsoa21_name LSOA name
lsoa21_code LSOA code
sicbl24_name Sub Integrated Care Board Location name
sicbl24_code Sub Integrated Care Board Location code
sicbl24_code_nhs Sub Integrated Care Board Location NHS code
icb24_name Integrated Care Board name
icb24_code Integrated Care Board code
icb24_code_nhs Integrated Care Board NHS code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_lsoa21_ward24_lta24	<i>Lower Layer Super Output Area (2021) to Ward (2024) to Local Authority District (2024) Lookup</i>
----------------------------	--

Description

A data set containing a lookup between 2021 Lower Super Output Areas (LSOA) and 2024 Wards and Local Authority Districts.

Usage

lookup_lsoa21_ward24_lta24

Format

A data frame of class "tbl" with 35,672 rows and 6 variables:

- lsoa21_name** LSOA name
- lsoa21_code** LSOA code
- ward24_name** Ward name
- ward24_code** Ward code
- lta24_name** LAD name
- lta24_code** LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_lta_lta	<i>Changes to England Local Authority codes over time (from 2019).</i>
----------------	--

Description

A data set containing a lookup of the England Local Authority changes between 2019, 2020 and 2021.

Usage

lookup_lta_lta

Format

A data frame of class "tbl" with 393 rows and 18 variables:

- ltla16_name** 2016 LAD name
- ltla16_code** 2016 LAD code
- ltla17_name** 2017 LAD name
- ltla17_code** 2017 LAD code
- ltla18_name** 2018 LAD name
- ltla18_code** 2018 LAD code
- ltla19_name** 2019 LAD name
- ltla19_code** 2019 LAD code
- ltla20_name** 2020 LAD name
- ltla20_code** 2020 LAD code
- ltla21_name** 2021 LAD name
- ltla21_code** 2021 LAD code
- ltla22_name** 2022 LAD name
- ltla22_code** 2022 LAD code
- ltla23_name** 2023 LAD name
- ltla23_code** 2023 LAD code
- ltla24_name** 2024 LAD name
- ltla24_code** 2024 LAD code ...

Source

<https://geoportal.statistics.gov.uk/datasets/code-history-database-december-2021-for-the-united-kingdom/about>

lookup_ltla19_brc	<i>Local Authority District (2019) to British Red Cross area lookup</i>
-------------------	---

Description

A data set containing a lookup between UK Local Authority Districts and British Red Cross operational areas.

Usage

lookup_ltla19_brc

Format

A data frame of class "tbl" with 382 rows and 2 variables:

ltla19_code LAD code

brc_area British Red Cross area name ...

Source

<https://redcross.org.uk/>

lookup_ltla19_cauth19 *Local Authority Districts to Combined Authorities lookup (2019).*

Description

A data set containing a lookup between December 2019 Local Authority Districts and Combined Authorities (CAUTH).

Usage

```
lookup_ltla19_cauth19
```

Format

A data frame of class "tbl" with 53 rows and 4 variables:

ltla19_name LAD name

ltla19_code LAD code

cauth19_name County name

cauth19_code County code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla19_region19

Local Authority District to Region (December 2019) Lookup in England

Description

A data set containing a lookup between 2019 Local Authority Districts (LAD) and 2019 English Regions.

Usage

```
lookup_ltla19_region19
```

Format

A data frame of class "tbl" with 317 rows and 4 variables:

ltla19_name LAD name

ltla19_code LAD code

region19_name Region name

region19_code Region code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla19_utla19 *Local Authority Districts to County and Unitary Authorities lookup (2019).*

Description

A data set containing a lookup between December 2019 Local Authority Districts and County and Unitary Authorities.

Usage

```
lookup_ltla19_utla19
```

Format

A data frame of class "tbl" with 339 rows and 4 variables:

ltla19_name LAD name

ltla19_code LAD code

utla19_name County name

utla19_code County code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla20_cauth20 *Local Authority Districts to Combined Authorities lookup (2020).*

Description

A data set containing a lookup between December 2020 Local Authority Districts and Combined Authorities (CAUTH).

Usage

```
lookup_ltla20_cauth20
```

Format

A data frame of class "tbl" with 53 rows and 4 variables:

ltla20_name LAD name

ltla20_code LAD code

cauth20_name County name

cauth20_code County code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla20_region20
Local Authority District to Region (December 2020) Lookup in England

Description

A data set containing a lookup between 2020 Local Authority Districts (LAD) and 2020 English Regions.

Usage

```
lookup_ltla20_region20
```

Format

A data frame of class "tbl" with 314 rows and 4 variables:

ltla20_name LAD name

ltla20_code LAD code

region20_name Region name

region20_code Region code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla20_utla20	<i>Local Authority Districts to County and Unitary Authorities lookup (2020).</i>
----------------------	---

Description

A data set containing a lookup between December 2020 Local Authority Districts and County and Unitary Authorities.

Usage

```
lookup_ltla20_utla20
```

Format

A data frame of class "tbl" with 336 rows and 4 variables:

ltla20_name LAD name

ltla20_code LAD code

utla20_name County name

utla20_code County code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla21_brc	<i>Local Authority District (2021) to British Red Cross area lookup</i>
-------------------	---

Description

A data set containing a lookup between UK Local Authority Districts and British Red Cross operational areas.

Usage

```
lookup_ltla21_brc
```

Format

A data frame of class "tbl" with 382 rows and 2 variables:

ltla21_code LAD code

brc_area British Red Cross area name ...

Source

<https://redcross.org.uk/>

lookup_ltla21_cauth21	<i>Local Authority Districts to Combined Authorities lookup (2021).</i>
-----------------------	---

Description

A data set containing a lookup between December 2021 Local Authority Districts and Combined Authorities (CAUTH).

Usage

```
lookup_ltla21_cauth21
```

Format

A data frame of class "tbl" with 53 rows and 4 variables:

ltla21_name LAD name

ltla21_code LAD code

cauth21_name County name

cauth21_code County code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla21_fra21	<i>Local Authority Districts to Fire and Rescue Authorities lookup (2021).</i>
---------------------	--

Description

A data set containing a lookup between April 2021 Local Authority Fire and Rescue Authorities (FRA)

Usage

```
lookup_ltla21_fra21
```

Format

A data frame of class "tbl" with 331 rows and 4 variables:

ltla21_name LAD name

ltla21_code LAD code

fra21_name FRA name

fra21_code FRA code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla21_hsct18	<i>Local Government District (2021) to Health and Social Care Trust (2018) Lookup</i>
----------------------	---

Description

A data set containing a lookup between Local Authorities (also called Local Government Districts) and Health and Social Care Trusts in Northern Ireland

Usage

```
lookup_ltla21_hsct18
```

Format

A data frame of class "tbl" with 11 rows and 4 variables:

ltla21_name Local Government District (2021) name

ltla21_code Local Government District (2021) code

trust18_name Health and Social Care Trust (2018) name

trust18_code Health and Social Care Trust (2018) code ...

Source

<https://www.nisra.gov.uk/sites/nisra.gov.uk/files/publications/Maps-of-NI-Health-Trusts-and-Local-Health-Boards-2022.pdf>

lookup_ltla21_lhb22	<i>Wales Local Authority Districts (2021) to Local Health Boards (2022) Lookup</i>
---------------------	--

Description

A data set containing a lookup between Local Authorities (2021) and Local Health Boards (December 2022) in Wales.

Usage

lookup_ltla21_lhb22

Format

A data frame of class "tbl" with 22 rows and 4 variables:

ltla21_code Local Government District (2021) code
ltla21_name Local Government District (2021) name
lhb22_code Local Health Board (2022) code
lhb22_name Local Health Board (2022) name ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla21_region21	<i>Local Authority District to Region (April 2021) Lookup in England</i>
------------------------	--

Description

A data set containing a lookup between 2021 Local Authority Districts (LAD) and 2021 English Regions.

Usage

lookup_ltla21_region21

Format

A data frame of class "tbl" with 317 rows and 4 variables:

ltla21_name LAD name

ltla21_code LAD code

region21_name Region name

region21_code Region code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla21_utla21	<i>Local Authority Districts to County and Unitary Authorities lookup (2021).</i>
----------------------	---

Description

A data set containing a lookup between December 2021 Local Authority Districts and County and Unitary Authorities.

Usage

```
lookup_ltla21_utla21
```

Format

A data frame of class "tbl" with 331 rows and 4 variables:

ltla21_name LAD name

ltla21_code LAD code

utla21_name County name

utla21_code County code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla21_vcsep22 *Local Authority Districts to VCSEP regions lookup (2021).*

Description

A data set containing a lookup between December 2021 Local Authority Districts and Voluntary and Community Sector Emergency Partnership regions

Usage

```
lookup_ltla21_vcsep22
```

Format

A data frame of class "tbl" with 309 rows and 3 variables:

ltla21_name LAD name

ltla21_code LAD code

vcsep_region VCSEP region name ...

Source

https://github.com/VCS-Emergencies-Partnership/ad-hoc-analysis/tree/main/analysis/vcsep_regions_boundaries

lookup_ltla22_ltla23 *Local Authority Districts (2022) to Local Authority Districts (2023).*

Description

A data set containing a lookup between 2022 Local Authority Districts and 2023 Local Authority Districts.

Usage

```
lookup_ltla22_ltla23
```

Format

A data frame of class "tbl" with 374 rows and 4 variables:

ltla22_code LAD 22 code

ltla22_name LAD 22 name

ltla23_code LAD 23 code

ltla23_name LAD 23 name ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla23_cauth23 *Local Authority Districts to Combined Authorities lookup (2023).*

Description

A data set containing a lookup between December 2023 Local Authority Districts and Combined Authorities (CAUTH).

Usage

```
lookup_ltla23_cauth23
```

Format

A data frame of class "tbl" with 53 rows and 4 variables:

ltla23_name LAD name

ltla23_code LAD code

cauth23_name County name

cauth23_code County code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla23_region23
Local Authority District to Region (April 2023) Lookup in England

Description

A data set containing a lookup between 2023 Local Authority Districts (LAD) and 2023 English Regions.

Usage

```
lookup_ltla23_region23
```

Format

A data frame of class "tbl" with 296 rows and 4 variables:

ltla23_name LAD name

ltla23_code LAD code

region23_name Region name

region23_code Region code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla23_utla23	<i>Lower Tier Local Authority (2023) to Upper Tier Local Authority (2023).</i>
----------------------	--

Description

A data set containing a lookup between Lower Tier Local Authority (2023) to Upper Tier Local Authority (2023).

Usage

```
lookup_ltla23_utla23
```

Format

A data frame of class "tbl" with 318 rows and 4 variables:

ltla23_code LTLA code

ltla23_name LTLA name

utla23_code UTLA code

utla23_name UTLA name ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla24_csp24_pfa24	<i>Local Authority Districts to Community Safety Partnership to Police Force Area lookup (2024)</i>
---------------------------	---

Description

A data set containing a lookup between November 2024 Local Authority, Community Safety Partnership (CSP), and Police Force Areas (PFA) in England and Wales.

Usage

lookup_ltla24_csp24_pfa24

Format

A data frame of class "tbl" with 332 rows and 6 variables:

- ltla24_code** LAD code
- ltla24_name** LAD name
- csp24_code** CSP code
- csp24_name** CSP name
- pfa24_code** PFA code
- pfa24_name** PFA name ...

Source

<https://geoportal.statistics.gov.uk/datasets/ons::lad-to-community-safety-partnership-to-pfa-decembr-2024/explore>

lookup_ltla24_fra24	<i>Local Authority Districts to Fire and Rescue Authorities lookup (2024).</i>
---------------------	--

Description

A data set containing a lookup between April 2024 Local Authority Fire and Rescue Authorities (FRA)

Usage

lookup_ltla24_fra24

Format

A data frame of class "tbl" with 318 rows and 4 variables:

ltla24_name LAD name

ltla24_code LAD code

fra24_name FRA name

fra24_code FRA code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_ltla24_region24

Local Authority District to Region (April 2024) Lookup in England

Description

A data set containing a lookup between 2024 Local Authority Districts (LAD) and 2024 English Regions.

Usage

```
lookup_ltla24_region24
```

Format

A data frame of class "tbl" with 296 rows and 4 variables:

ltla24_name LAD name

ltla24_code LAD code

region24_name Region name

region24_code Region code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_msoa11_ltle19	<i>Middle Layer Super Output Area (2011) to LAD (December 2019) Lookup</i>
----------------------	--

Description

A data set containing a lookup between 2011 Middle Super Output Areas (MSOA) and 2019 Local Authority Districts (LAD).

Usage

```
lookup_msoa11_ltle19
```

Format

A data frame of class "tbl" with 7,201 rows and 4 variables:

msoa11_name MSOA name

msoa11_code MSOA code

ltle19_name LAD name

ltle19_code LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_msoa11_ltle20	<i>Middle Layer Super Output Area (2011) to LAD (December 2020) Lookup</i>
----------------------	--

Description

A data set containing a lookup between 2011 Middle Super Output Areas (MSOA) and 2020 Local Authority Districts (LAD).

Usage

```
lookup_msoa11_ltle20
```

Format

A data frame of class "tbl" with 7,201 rows and 4 variables:

msoa11_name MSOA name

msoa11_code MSOA code

ltle20_name LAD name

ltle20_code LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_msoa11_ltlea21	<i>Middle Layer Super Output Area (2011) to LAD (December 2021) Lookup</i>
-----------------------	--

Description

A data set containing a lookup between 2011 Middle Super Output Areas (MSOA) and 2021 Local Authority Districts (LAD).

Usage

```
lookup_msoa11_ltlea21
```

Format

A data frame of class "tbl" with 7,201 rows and 4 variables:

msoa11_name MSOA name

msoa11_code MSOA code

ltlea21_name LAD name

ltlea21_code LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_msoa11_msoa21_ltlea22	<i>Middle Layer Super Output Area (2011) to Middle Layer Super Output Area (2021) to LAD (December 2022) Lookup</i>
------------------------------	---

Description

A data set containing a lookup between 2011 Middle Super Output Areas (MSOA) and 2021 Middle Super Output Areas (MSOA) and 2022 Local Authority Districts (LAD).

Usage

```
lookup_msoa11_msoa21_ltlea22
```

Format

A data frame of class "tbl" with 7,201 rows and 6 variables:

msoa11_name MSOA 11 name

msoa11_code MSOA 11 code

msoa21_name MSOA 21 name

msoa21_code MSOA 21 code

lta22_name LAD name

lta22_code LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_msoa11_ward17 *MSOA (2011) to Ward (2017) Lookup*

Description

A data set containing a lookup between 2011 MSOAs and 2021 wards in England and Wales.

Usage

```
lookup_msoa11_ward17
```

Format

A data frame of class "tbl" with 13,873 rows and 2 variables:

msoa11_code MSOA 2011 code

ward17_code Ward 2017 code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_msoa21_ward17	<i>MSOA (2021) to Ward (2017) Lookup</i>
----------------------	--

Description

A data set containing a lookup between 2021 MSOAs and 2021 wards in England and Wales.

Usage

```
lookup_msoa21_ward17
```

Format

A data frame of class "tbl" with 13,865 rows and 2 variables:

msoa21_code MSOA 2021 code

ward17_code Ward 2017 code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_nhs_trusts22_icb22	<i>England NHS Trusts (2022) to ICB (2022) Lookup</i>
---------------------------	---

Description

A data set containing a lookup between 2022 England NHS Trusts and 2022 Integrate Care Boards (ICBs).

Usage

```
lookup_nhs_trusts22_icb22
```

Format

A data frame of class "tbl" with 1,321 rows and 3 variables:

icb22_code ICB code

nhs_trust22_code NHS Trust code

proportion_trust_came_from_icb The proportion of patients from all admissions from a given Trust that came from a given ICB ...

Copyright reference

Office for Health Improvement & Disparities. NHS Acute (Hospital) Trust Catchment Populations. 18.10.2022. <https://AcuteTrustCatchmentPopulation/app.powerbi.com> © Crown copyright 2022

Source

<https://app.box.com/s/qh8gzpzeo1firv1ezfxx2e6c4tgtrudl>

lookup_nhs_trusts22_ltle21

England NHS Trusts (2022) to LTLA (2021) Lookup

Description

A data set containing a lookup between 2022 England NHS Trusts and 2021 LTLA areas.

Usage

lookup_nhs_trusts22_ltle21

Format

A data frame of class "tbl" with 574,104 rows and 4 variables:

ltle21_code LTLA code

nhs_trust22_code NHS Trust code

proportion_trust_came_from_ltle The proportion of patients from all admissions from a given Trust that came from a given LTLA ...

Copyright reference

Office for Health Improvement & Disparities. NHS Acute (Hospital) Trust Catchment Populations. 18.10.2022. <https://AcuteTrustCatchmentPopulation/app.powerbi.com> © Crown copyright 2022

Source

<https://app.box.com/s/qh8gzpzeo1firv1ezfxx2e6c4tgtrudl>

lookup_nhs_trusts22_msoa11*England NHS Trusts (2022) to MSOA (2011) Lookup*

Description

A data set containing a lookup between 2022 England NHS Trusts and 2011 LSOA areas.

Usage

lookup_nhs_trusts22_msoa11

Format

A data frame of class "tbl" with 574,104 rows and 4 variables:

msoa11_code MSOA code

nhs_trust22_code NHS Trust code

proportion_msoa_went_to_trust The proportion of patients from all admissions from a given MSOA that went to a given Trust

proportion_trust_came_from_msoa The proportion of patients from all admissions from a given Trust that came from a given MSOA ...

Details

The population size of an MSOA is much smaller than the population of people who attend a given Trust. This means that the proportion of patients from an MSOA that go to a Trust will be much higher than the proportion of patients from a Trust that came from an MSOA. This is because Trusts serve many more MSOA's than MSOA patients go to different trusts.

Copyright reference

Office for Health Improvement & Disparities. NHS Acute (Hospital) Trust Catchment Populations. 18.10.2022. <https://AcuteTrustCatchmentPopulation/app.powerbi.com> © Crown copyright 2022

Source

<https://app.box.com/s/qh8gzpzeo1firv1ezfxx2e6c4tgtrudl>

`lookup_nhs_trusts22_nhs_region21`*NHS Trusts (February 2022) to NHS Regions (April 2021) Lookup*

Description

A data set containing February 2022 NHS Trusts and their associated names, codes, and open status, with a lookup to NHS Regions (April 2021).

Usage`lookup_nhs_trusts22_nhs_region21`**Format**

A data frame of class "tbl" with 214 rows and 6 variables:

nhs_trust22_code NHS Trust code

nhs_trust22_name NHS Trust name

nhs_region21_nhs_code NHS Region code (NHS version)

nhs_region21_ons_code NHS Region code (ONS version)

nhs_region21_name NHS Region name

status whether the Trust is 'open' or 'closed' ...

Source

<https://digital.nhs.uk/>

`lookup_nhs_trusts22_stp21`*England NHS Trusts (2022) to STP/ICS (2021) Lookup*

Description

A data set containing a lookup between 2022 England NHS Trusts and 2021 STP areas.

Usage`lookup_nhs_trusts22_stp21`

Format

A data frame of class "tbl" with 209 rows and 4 variables:

nhs_trust22_name NHS Trust name

nhs_trust22_code NHS Trust code

stp21_name STP name

stp21_code STP code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_postcode_dz21_sdz21_dea14_lgd14

*Postcode to Data Zone to Super DataZone to District Electoral Areas
to Local Government District lookup for Northern Ireland*

Description

Postcode to Data Zone to Super DataZone to District Electoral Areas to Local Government District
lookup for Northern Ireland

Usage

lookup_postcode_dz21_sdz21_dea14_lgd14

Format

A data frame of class "tbl":

postcode Postcode

dz21_code Data zone (2021) code (comparable to Output Areas)

dz21_name Data zone (2021) name

sdz21_code Super data zone (2021) code (comparable to LSOA / Scottish Data Zone)

sdz21_name Super data zone (2021) name

dea14_code District Electoral Areas (2019) code

dea14_name District Electoral Areas (2019) name

lgd14_code Local Government District (2014) code (comparable to Local Authority)

lgd14_name Local Government District (2014) name ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_postcode_oa_lsoa_msoa_ltle_2025
<i>Postcode (2025) to Output Area (2011 and 2021) to Lower Layer Super Output Area (2011 and 2021) to Middle Layer Super Output Area (2011 and 2021) to Local Authority District (2024) Lookup</i>

Description

A data set containing a lookup between postcodes, OAs, LSOAs, MSOAs, and Local Authority Districts for the UK.

Usage

lookup_postcode_oa_lsoa_msoa_ltle_2025

Format

A data frame of class "tbl" with 2,712,506 rows and 8 variables:

- postcode** Postcodes
- oa11_code** OA 2011 code
- lsoa11_code** LSOA 2011 code
- msoa11_code** MSA 2011 code
- oa21_code** OA 2021 code
- lsoa21_code** LSOA 2021 code
- msoa21_code** MSA 2021 code
- tle24_code** Local Authority District 2024 code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_sa11_soa11_lgd18
<i>Small Areas (2011) to SOAs to Local Government Districts (December 2018) Lookup with Area Classifications in Northern Ireland</i>

Description

A data set containing a lookup between Small Areas, Super Output Areas, and Local Government Districts in Northern Ireland

Usage

lookup_sa11_soa11_lgd18

Format

A data frame of class "tbl" with 4,537 rows and 5 variables:

sa11_code Small Area code

soa11_name Super Output Area name

soa11_code Super Output Area code

lgd18_name Local Government District name

lgd18_code Local Government District code ...

Source

<https://geoportal.statistics.gov.uk/>

lookup_soa01_lgd14	<i>SOA (2001) to LGD (2014) Lookup</i>
--------------------	--

Description

A data set containing a lookup between SOA and LGD in Northern Ireland.

Usage

lookup_soa01_lgd14

Format

A data frame of class "tbl" with 890 rows and 3 variables:

soa01_code Super Output Area 2001 code

lgd14_code Local Government District 2014 code

lgd14_name Local Government District 2014 name ...

Source

<https://www.nisra.gov.uk/publications/geography-lookup-tables>

lookup_trust_trust	<i>NHS Trust and Organisation Changes</i>
--------------------	---

Description

A data set containing a lookup of NHS Trust and organisational changes

Usage

lookup_trust_trust

Format

A data frame of class "tbl" with 25,480 rows and 3 variables:

old_code The old organisation code

new_code The new organisation code

date The date of the change ...

Source

<https://digital.nhs.uk/>

lookup_ward21_lta21	<i>Ward (December 2021) to LTLA (December 2021) Lookup</i>
---------------------	--

Description

A data set containing a lookup between 2021 wards and 2021 Lower Tier Local Authority Districts (LAD).

Usage

lookup_ward21_lta21

Format

A data frame of class "tbl" with 8,694 rows and 4 variables:

ward21_name MSOA name

ward21_code MSOA code

lta21_name LAD name

lta21_code LAD code ...

Source

<https://geoportal.statistics.gov.uk/>

names_codes_hb19	<i>Names and codes for NHS Scotland Health Boards (2014 - 2019)</i>
------------------	---

Description

Names and codes for NHS Scotland Health Boards (2014 - 2019)

Usage

names_codes_hb19

Format

A data frame of class "tbl" with 18 rows and 4 variables:

hb19_name Health Board name

hb19_code Health Board code

date_enacted Date Health Board Code was enacted

date_archived Date Health Board Code was archived ...

Source

<https://www.opendata.nhs.scot/>

points_hospitals22	<i>NHS England Hospitals (July 2022)</i>
--------------------	--

Description

A data set containing July 2022 NHS England hospital point geometries (i.e., lat/long coordinates) and their associated names.

Usage

points_hospitals22

Format

A data frame of class "sf" with 1,061 rows and 2 variables:

hospital22_name NHS England hospital

geometry point coordinates ...

Source

<https://digital.nhs.uk/>

points_nhs_trusts22 *NHS Trusts (February 2022)*

Description

A data set containing February 2022 NHS Trusts point geometries (i.e., lat/long coordinates) and their associated names, codes, and open status.

Usage

points_nhs_trusts22

Format

A data frame of class "sf" with 218 rows and 4 variables:

nhs_trust22_name NHS Trust name

nhs_trust22_code NHS Trust code

status whether the Trust is 'open' or 'closed'

geometry point coordinates ...

Source

<https://digital.nhs.uk/>

points_scotland_hospitals24
 NHS Scotland Hospitals (2024)

Description

A data set containing 2024 NHS Scotland hospital point geometries (i.e., lat/long coordinates) and their associated names and addresses. Note that this data set contains the 14 standard regional boards, plus three additional special boards as described at <https://www.scot.nhs.uk/organisations/>.

Usage

points_scotland_hospitals24

Format

A data frame of class "sf" with 309 rows and 7 variables:

scotland_hospital24_code NHS Scotland hospital code
scotland_hospital24_name NHS Scotland hospital name
hb19_code Health Board code
hb19_name Health Board name
postcode Postcode
address Address
geometry point coordinates ...

Source

<https://data.spatialhub.scot/>

ruc11_lsoa11	<i>Rural-Urban Classifications for Lower Layer Super Output Areas (2011) in England and Wales</i>
--------------	---

Description

A data set containing rural-urban classifications for LSOAs in England and Wales.

Usage

```
ruc11_lsoa11
```

Format

A data frame of class "tbl" with 34,753 rows and 4 variables:

lsoa11_code LSOA code
ruc11_code Rural-Urban Classification code
ruc Whether the LSOA is classified as 'Rural' or 'Urban'
classification A more detailed description of the classification ...

Source

<https://geoportal.statistics.gov.uk/>

ruc11_msoa11	<i>Rural-Urban Classifications for Middle Layer Super Output Areas (2011) in England and Wales</i>
--------------	--

Description

A data set containing rural-urban classifications for MSOAs in England and Wales.

Usage

```
ruc11_msoa11
```

Format

A data frame of class "tbl" with 7,201 rows and 4 variables:

msoa11_code MSOA code

ruc11_code Rural-Urban Classification code

ruc Whether the MSOA is classified as 'Rural' or 'Urban'

classification A more detailed description of the classification ...

Source

<https://geoportal.statistics.gov.uk/>

ruc11_wards11	<i>Rural-Urban Classifications for wards (2011) in England and Wales</i>
---------------	--

Description

A data set containing rural-urban classifications for wards in England and Wales.

Usage

```
ruc11_wards11
```

Format

A data frame of class "tbl" with 8,570 rows and 4 variables:

ward11_code Ward code

ruc11_code Rural-Urban Classification code

ruc Whether the ward is classified as 'Rural' or 'Urban'

classification A more detailed description of the classification ...

Source

<https://geoportal.statistics.gov.uk/>

ruc16_dz11

*Rural-Urban Classifications for Data Zones (2011) in Scotland***Description**

A data set containing rural-urban classifications for Data Zones in Scotland.

Usage

ruc16_dz11

Format

A data frame of class "tbl" with 6,976 rows and 4 variables:

dz11_code Data Zone code

ruc16_code Rural-Urban Classification code

ruc Whether the DZ is classified as 'Rural' or 'Urban'

classification A more detailed description of the classification ...

Source

<https://www.gov.scot/>

ruc21_lsoa21

*Rural-Urban Classifications for Lower Layer Super Output Areas (2021) in England and Wales***Description**

A data set containing rural-urban classifications for LSOAs in England and Wales.

Usage

ruc21_lsoa21

Format

A data frame of class "tbl" with 35,672 rows and 4 variables:

lsoa21_code LSOA code

ruc21_code Rural-Urban Classification code

ruc Whether the LSOA is classified as 'Rural' or 'Urban'

classification A more detailed description of the classification ...

Source

<https://geoportal.statistics.gov.uk/>

ruc21_ltlea24	<i>Rural-Urban Classifications for Local Authorities (2024) in England and Wales</i>
---------------	--

Description

A data set containing rural-urban classifications for Local Authorities in England and Wales.

Usage

ruc21_ltlea24

Format

A data frame of class "tbl" with 318 rows and 4 variables:

- ltle24_code** Local Authority code
- ruc21_code** Rural-Urban Classification code
- ruc** Whether the Local Authority is classified as 'Rural' or 'Urban'
- classification** A more detailed description of the classification ...

Source

<https://geoportal.statistics.gov.uk/>

ruc21_msoa21	<i>Rural-Urban Classifications for Middle Layer Super Output Areas (2021) in England and Wales</i>
--------------	--

Description

A data set containing rural-urban classifications for MSOAs in England and Wales.

Usage

ruc21_msoa21

Format

A data frame of class "tbl" with 7,264 rows and 4 variables:

- msoa21_code** MSA code
- ruc21_code** Rural-Urban Classification code
- ruc** Whether the MSA is classified as 'Rural' or 'Urban'
- classification** A more detailed description of the classification ...

Source

<https://geoportal.statistics.gov.uk/>

Index

* datasets

boundaries_ccg21, [5](#)
boundaries_countries20, [5](#)
boundaries_dz11, [6](#)
boundaries_epg04, [6](#)
boundaries_hb19, [7](#)
boundaries_icb22, [7](#)
boundaries_iz11, [8](#)
boundaries_lhb20, [8](#)
boundaries_lhb22, [9](#)
boundaries_lrf20, [9](#)
boundaries_lrp19, [10](#)
boundaries_lsoa11, [10](#)
boundaries_lsoa21, [11](#)
boundaries_ltla19, [11](#)
boundaries_ltla20, [12](#)
boundaries_ltla21, [12](#)
boundaries_ltla24, [13](#)
boundaries_msoa11, [14](#)
boundaries_msoa21, [14](#)
boundaries_msoa21_iz11_sdz21, [15](#)
boundaries_pfa20, [15](#)
boundaries_region21, [16](#)
boundaries_sdz21, [17](#)
boundaries_soa11, [17](#)
boundaries_stp21, [18](#)
boundaries_trusts_ni18, [18](#)
boundaries_utla19, [19](#)
boundaries_utla20, [19](#)
boundaries_utla21, [20](#)
boundaries_vcsep22, [20](#)
boundaries_wards21, [21](#)
boundaries_wards22, [21](#)
lookup_dz01_dz11, [24](#)
lookup_dz11_iz11_ltla20, [24](#)
lookup_dz11_ltla19_hb19, [25](#)
lookup_dz21_sdz21_dea14_lgd14, [25](#)
lookup_lsoa01_lsoa11, [26](#)
lookup_lsoa11_ccg21_stp21_ltla21, [27](#)
lookup_lsoa11_lsoa21_ltla22, [27](#)
lookup_lsoa11_ltla18, [28](#)
lookup_lsoa11_ltla19, [29](#)
lookup_lsoa11_ltla20, [29](#)
lookup_lsoa11_ltla21, [30](#)
lookup_lsoa11_msoa11, [30](#)
lookup_lsoa11_sicbl22_icb22_ltla22, [31](#)
lookup_lsoa11_ward17, [32](#)
lookup_lsoa21_icb24, [32](#)
lookup_lsoa21_ward24_ltla24, [33](#)
lookup_ltla19_brc, [34](#)
lookup_ltla19_cauth19, [35](#)
lookup_ltla19_region19, [36](#)
lookup_ltla19_utla19, [36](#)
lookup_ltla20_cauth20, [37](#)
lookup_ltla20_region20, [37](#)
lookup_ltla20_utla20, [38](#)
lookup_ltla21_brc, [39](#)
lookup_ltla21_cauth21, [39](#)
lookup_ltla21_fra21, [40](#)
lookup_ltla21_hsct18, [40](#)
lookup_ltla21_lhb22, [41](#)
lookup_ltla21_region21, [41](#)
lookup_ltla21_utla21, [42](#)
lookup_ltla21_vcsep22, [43](#)
lookup_ltla22_ltla23, [43](#)
lookup_ltla23_cauth23, [44](#)
lookup_ltla23_region23, [44](#)
lookup_ltla23_utla23, [45](#)
lookup_ltla24_csp24_pfa24, [46](#)
lookup_ltla24_fra24, [46](#)
lookup_ltla24_region24, [47](#)
lookup_ltla_ltla, [33](#)
lookup_msoa11_ltla19, [48](#)
lookup_msoa11_ltla20, [48](#)
lookup_msoa11_ltla21, [49](#)
lookup_msoa11_msoa21_ltla22, [49](#)

- lookup_msoa11_ward17, [50](#)
- lookup_msoa21_ward17, [51](#)
- lookup_nhs_trusts22_icb22, [51](#)
- lookup_nhs_trusts22_ltla21, [52](#)
- lookup_nhs_trusts22_msoa11, [53](#)
- lookup_nhs_trusts22_nhs_region21, [54](#)
- lookup_nhs_trusts22_stp21, [54](#)
- lookup_postcode_dz21_sdz21_dea14_lgd14, [55](#)
- lookup_postcode_oa_lsoa_msoa_ltla_2025, [56](#)
- lookup_sa11_soal1_lgd18, [56](#)
- lookup_soa01_lgd14, [57](#)
- lookup_trust_trust, [58](#)
- lookup_ward21_ltla21, [58](#)
- names_codes_hb19, [59](#)
- points_hospitals22, [59](#)
- points_nhs_trusts22, [60](#)
- points_scotland_hospitals24, [60](#)
- ruc11_lsoa11, [61](#)
- ruc11_msoa11, [62](#)
- ruc11_wards11, [62](#)
- ruc16_dz11, [63](#)
- ruc21_lsoa21, [63](#)
- ruc21_ltla24, [64](#)
- ruc21_msoa21, [64](#)
- aggregate_lba_lsoas, [4](#)
- boundaries_ccg21, [5](#)
- boundaries_countries20, [5](#)
- boundaries_dz11, [6](#)
- boundaries_epg04, [6](#)
- boundaries_hb19, [7](#)
- boundaries_icb22, [7](#)
- boundaries_iz11, [8](#)
- boundaries_lhb20, [8](#)
- boundaries_lhb22, [9](#)
- boundaries_lrf20, [9](#)
- boundaries_lrp19, [10](#)
- boundaries_lsoa11, [10](#)
- boundaries_lsoa21, [11](#)
- boundaries_ltla19, [11](#)
- boundaries_ltla20, [12](#)
- boundaries_ltla21, [12](#)
- boundaries_ltla24, [13](#)
- boundaries_msoa11, [14](#)
- boundaries_msoa21, [14](#)
- boundaries_msoa21_iz11_sdz21, [15](#)
- boundaries_pfa20, [15](#)
- boundaries_region21, [16](#)
- boundaries_sdz21, [17](#)
- boundaries_soa11, [17](#)
- boundaries_stp21, [18](#)
- boundaries_trusts_ni18, [18](#)
- boundaries_utla19, [19](#)
- boundaries_utla20, [19](#)
- boundaries_utla21, [20](#)
- boundaries_vcsep22, [20](#)
- boundaries_wards21, [21](#)
- boundaries_wards22, [21](#)
- calculate_extent, [22](#)
- calculate_proportion, [23](#)
- lookup_dz01_dz11, [24](#)
- lookup_dz11_iz11_ltla20, [24](#)
- lookup_dz11_ltla19_hb19, [25](#)
- lookup_dz21_sdz21_dea14_lgd14, [25](#)
- lookup_lsoa01_lsoa11, [26](#)
- lookup_lsoa11_ccg21_stp21_ltla21, [27](#)
- lookup_lsoa11_lsoa21_ltla22, [27](#)
- lookup_lsoa11_ltla18, [28](#)
- lookup_lsoa11_ltla19, [29](#)
- lookup_lsoa11_ltla20, [29](#)
- lookup_lsoa11_ltla21, [30](#)
- lookup_lsoa11_msoa11, [30](#)
- lookup_lsoa11_sicb122_icb22_ltla22, [31](#)
- lookup_lsoa11_ward17, [32](#)
- lookup_lsoa21_icb24, [32](#)
- lookup_lsoa21_ward24_ltla24, [33](#)
- lookup_ltla19_brc, [34](#)
- lookup_ltla19_cauth19, [35](#)
- lookup_ltla19_region19, [36](#)
- lookup_ltla19_utla19, [36](#)
- lookup_ltla20_cauth20, [37](#)
- lookup_ltla20_region20, [37](#)
- lookup_ltla20_utla20, [38](#)
- lookup_ltla21_brc, [39](#)
- lookup_ltla21_cauth21, [39](#)
- lookup_ltla21_fra21, [40](#)
- lookup_ltla21_hsct18, [40](#)
- lookup_ltla21_lhb22, [41](#)
- lookup_ltla21_region21, [41](#)
- lookup_ltla21_utla21, [42](#)
- lookup_ltla21_vcsep22, [43](#)
- lookup_ltla22_ltla23, [43](#)

lookup_ltla23_cauth23, [44](#)
lookup_ltla23_region23, [44](#)
lookup_ltla23_utla23, [45](#)
lookup_ltla24_csp24_pfa24, [46](#)
lookup_ltla24_fra24, [46](#)
lookup_ltla24_region24, [47](#)
lookup_ltla_ltla, [33](#)
lookup_msoa11_ltla19, [48](#)
lookup_msoa11_ltla20, [48](#)
lookup_msoa11_ltla21, [49](#)
lookup_msoa11_msoa21_ltla22, [49](#)
lookup_msoa11_ward17, [50](#)
lookup_msoa21_ward17, [51](#)
lookup_nhs_trusts22_icb22, [51](#)
lookup_nhs_trusts22_ltla21, [52](#)
lookup_nhs_trusts22_msoa11, [53](#)
lookup_nhs_trusts22_nhs_region21, [54](#)
lookup_nhs_trusts22_stp21, [54](#)
lookup_postcode_dz21_sdz21_dea14_lgd14,
[55](#)
lookup_postcode_oa_lsoa_msoa_ltla_2025,
[56](#)
lookup_sa11_soa11_lgd18, [56](#)
lookup_soa01_lgd14, [57](#)
lookup_trust_trust, [58](#)
lookup_ward21_ltla21, [58](#)

names_codes_hb19, [59](#)

points_hospitals22, [59](#)
points_nhs_trusts22, [60](#)
points_scotland_hospitals24, [60](#)

ruc11_lsoa11, [61](#)
ruc11_msoa11, [62](#)
ruc11_wards11, [62](#)
ruc16_dz11, [63](#)
ruc21_lsoa21, [63](#)
ruc21_ltla24, [64](#)
ruc21_msoa21, [64](#)