

# Package ‘geofi’

October 30, 2021

**Type** Package

**Title** Access Finnish Geospatial Data

**Version** 1.0.5

**Date** 2021-10-30

**Description** Tools for reading Finnish open geospatial data in R.

**License** BSD\_2\_clause + file LICENSE

**URL** <https://ropengov.github.io/geofi/>,  
<https://github.com/rOpenGov/geofi>

**BugReports** <https://github.com/rOpenGov/geofi/issues>

**Depends** R (>= 3.5.0)

**Imports** curl, dplyr, httpcache, httr, methods, purrr, rlang, sf, xml2  
(>= 1.2.0), yaml

**Suggests** covr, geofacet, ggplot2, ggrepel, htmltools, httpptest (>= 4.0.0), janitor, knitr, leaflet, patchwork, pxweb, readr, rmarkdown, testthat, tidyr

**VignetteBuilder** knitr

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.2

**X-schema.org-isPartOf** <http://ropengov.org/>

**X-schema.org-keywords** ropengov

**NeedsCompilation** no

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**Repository** CRAN

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## R topics documented:

check_api_access . . . . .	3
convert_municipality_key_codes . . . . .	3
get_municipalities . . . . .	4
get_population_grid . . . . .	5
get_statistical_grid . . . . .	6
get_zipcodes . . . . .	6
grid_ahvenanmaa . . . . .	7
grid_etela_karjala . . . . .	8
grid_etela_pohjanmaa . . . . .	8
grid_etela_savo . . . . .	9
grid_kainuu . . . . .	9
grid_kanta_hame . . . . .	10
grid_keski_pohjanmaa . . . . .	10
grid_keski_suomi . . . . .	11
grid_kymenlaakso . . . . .	11
grid_lappi . . . . .	12
grid_maakunta . . . . .	12
grid_paijat_hame . . . . .	13
grid_pirkanmaa . . . . .	13
grid_pohjanmaa . . . . .	14
grid_pohjois_karjala . . . . .	14
grid_pohjois_pohjanmaa . . . . .	15
grid_pohjois_savo . . . . .	15
grid_sairaanhoitop . . . . .	16
grid_satakunta . . . . .	16
grid_uusimaa . . . . .	17
grid_varsinais_suomi . . . . .	17
municipality_central_localities . . . . .	18
municipality_key . . . . .	19
municipality_key_2013 . . . . .	21
municipality_key_2014 . . . . .	23
municipality_key_2015 . . . . .	24
municipality_key_2016 . . . . .	26
municipality_key_2017 . . . . .	27
municipality_key_2018 . . . . .	29
municipality_key_2019 . . . . .	31
municipality_key_2020 . . . . .	34
municipality_key_2021 . . . . .	36
to_sf . . . . .	39
wfs_api . . . . .	39

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check_api_access	<i>Check access to <a href="http://geo.stat.fi/geoserver/wfs">http://geo.stat.fi/geoserver/wfs</a></i>
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**Description**

Check if R has access to resources at <http://geo.stat.fi/geoserver/wfs>

**Usage**

```
check_api_access()
```

**Value**

a logical.

**Author(s)**

Markus Kainu <[markus.kainu@kapsi.fi](mailto:markus.kainu@kapsi.fi)>

**Examples**

```
## Not run:  
  check_api_access()  
  
## End(Not run)
```

---

convert_municipality_key_codes	<i>Convert regional codes in on-board municipality key data sets into variable length characters</i>
--------------------------------	--

---

**Description**

Statistics Finland provides numerical codes of regions as two or three digit characters. By default, those are converted to integers by `geofi` for convenience, but can be converted back using this function.

**Usage**

```
convert_municipality_key_codes(muni_key = geofi::municipality_key)
```

**Arguments**

`muni_key` a municipality key from `geofi`-package

**Value**

tibble with codes converted to variable length characters as provided by Statistics Finland

**Author(s)**

Markus Kainu [markus.kainu@kapsi.fi](mailto:markus.kainu@kapsi.fi), Pyry Kantanen

**Examples**

```
## Not run:  
convert_municipality_key_codes(muni_key = geofi::municipality_key)  
  
## End(Not run)
```

---

get_municipalities	<i>Get Finnish municipality (multi)polygons for different years and/or scales.</i>
--------------------	--

---

**Description**

Thin wrapper around Finnish zip code areas provided by [Statistics Finland](#).

**Usage**

```
get_municipalities(year = 2021, scale = 4500, codes_as_character = FALSE)
```

**Arguments**

year	A numeric for year of the administrative borders. Available are 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 and 2021.
scale	A scale or resolution of the shape. Two options: 1000 equals 1:1 000 000 and 4500 equals 1:4 500 000.
codes_as_character	A logical determining if the region codes should be returned as strings of equal width as originally provided by Statistics Finland instead of integers.

**Value**

sf object

**Author(s)**

Markus Kainu [markus.kainu@kela.fi](mailto:markus.kainu@kela.fi), Joonas Lehtomäki [joona.lehtomaki@iki.fi](mailto:joona.lehtomaki@iki.fi)

**Examples**

```
## Not run:  
f <- get_municipalities(year=2016, scale = 4500)  
plot(f)  
  
## End(Not run)
```

---

get_population_grid	<i>Get Finnish Population grid in two different resolutions for years 2010-2019 Thin wrapper around Finnish population grid data provided by R</i> <i><a href="https://www.stat.fi/org/avoindata/paikkatietoaineistot/vaestoruutuaineisto_1km_en.html">https://www.stat.fi/org/avoindata/paikkatietoaineistot/vaestoruutuaineisto_1km_en.html</a> Statistics Finland.</i>
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---

**Description**

Get Finnish Population grid in two different resolutions for years 2010-2019 Thin wrapper around Finnish population grid data provided by [Statistics Finland](#).

**Usage**

```
get_population_grid(year = 2017, resolution = 5)
```

**Arguments**

year	A numeric for year of the population grid. Years available 2010-2019.
resolution	1 (1km x 1km) or 5 (5km x 5km)

**Value**

sf object

**Author(s)**

Markus Kainu [markus.kainu@kela.fi](mailto:markus.kainu@kela.fi), Joona Lehtomäki [joona.lehtomaki@iki.fi](mailto:joona.lehtomaki@iki.fi)

**Examples**

```
## Not run:  
f <- get_population_grid(year=2017)  
plot(f)  
  
## End(Not run)
```

---

get\_statistical\_grid *Get Statistical grid data polygons at two different resolution*

---

### Description

Thin wrapper around Finnish statistical grid data provided by [Statistics Finland](#).

### Usage

```
get_statistical_grid(resolution = 5, auxiliary_data = FALSE)
```

### Arguments

resolution integer 1 (1km x 1km) or 5 (5km x 5km)  
auxiliary\_data logical Whether to include auxiliary data containing municipality membership data. Default FALSE

### Value

sf object

### Author(s)

Markus Kainu [markus.kainu@kela.fi](mailto:markus.kainu@kela.fi), Joonas Lehtomäki [joona.lehtomaki@iki.fi](mailto:joona.lehtomaki@iki.fi)

### Examples

```
## Not run:  
f <- get_statistical_grid(resolution = 5, auxiliary_data = FALSE)  
plot(f)  
  
## End(Not run)
```

---

get\_zipcodes *Get Finnish zip code (multi)polygons for different years.*

---

### Description

Thin wrapper around Finnish zip code areas provided by [Statistics Finland](#).

### Usage

```
get_zipcodes(year = 2021)
```

### Arguments

year                    A numeric for year of the zipcodes. Years available 2015-2021.

### Value

sf object

### Author(s)

Markus Kainu [markus.kainu@kela.fi](mailto:markus.kainu@kela.fi), Joonas Lehtomäki [joona.lehtomaki@iki.fi](mailto:joona.lehtomaki@iki.fi)

### Examples

```
## Not run:  
f <- get_zipcodes(year=2021)  
plot(f)  
  
## End(Not run)
```

---

grid\_ahvenanmaa                    *custom geofacet grid for Ahvenanmaa region*

---

### Description

Grid table to be used with ggplot2 and geofacet

### Usage

```
grid_ahvenanmaa
```

### Format

A data frame with 16 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid\_etela\_karjala    *custom geofacet grid for Etelä-Karjala region as in 2020*

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

grid\_etela\_karjala

**Format**

A data frame with 9 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid\_etela\_pohjanmaa    *custom geofacet grid for Etelä-Pohjanmaa*

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

grid\_etela\_pohjanmaa

**Format**

A data frame with 18 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid



---

grid_etela_savo	<i>custom geofacet grid for Etelä-Savo</i>
-----------------	--

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

```
grid_etela_savo
```

**Format**

A data frame with 12 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid_kainuu	<i>custom geofacet grid for Kainuu region</i>
-------------	---

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

```
grid_kainuu
```

**Format**

A data frame with 8 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid\_kanta\_hame      *custom geofacet grid for Kanta-Häme region*

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

grid\_kanta\_hame

**Format**

A data frame with 11 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid\_keski\_pohjanmaa      *custom geofacet grid for Keski-Pohjanmaa region*

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

grid\_keski\_pohjanmaa

**Format**

A data frame with 8 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid_keski_suomi	<i>custom geofacet grid for Keski-Suomi region as in 2020</i>
------------------	---

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

```
grid_keski_suomi
```

**Format**

A data frame with 22 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid_kymenlaakso	<i>custom geofacet grid for Kymenlaakso region</i>
------------------	--

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

```
grid_kymenlaakso
```

**Format**

A data frame with 6 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid_lappi	<i>custom geofacet grid for Lappi region as in 2020</i>
------------	---

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

```
grid_lappi
```

**Format**

A data frame with 21 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid_maakunta	<i>custom geofacet grid for regions</i>
---------------	---

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

```
grid_maakunta
```

**Format**

A data frame with 19 rows and 4 variables:

**name** Region name (maakunta) in Finnish

**code** Region code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid_paijat_hame	<i>custom geofacet grid for Päijät-Häme region</i>
------------------	--

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

grid\_paijat\_hame

**Format**

A data frame with 10 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid_pirkanmaa	<i>custom geofacet grid for Pirkanmaa region</i>
----------------	--

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

grid\_pirkanmaa

**Format**

A data frame with 23 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid\_pohjanmaa      *custom geofacet grid for Pohjanmaa region*

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

grid\_pohjanmaa

**Format**

A data frame with 14 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid\_pohjois\_karjala      *custom geofacet grid for Pohjois-Karjala region*

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

grid\_pohjois\_karjala

**Format**

A data frame with 13 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

`grid_pohjois_pohjanmaa`*custom geofacet grid for Pohjois-Pohjanmaa region*

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**`grid_pohjois_pohjanmaa`**Format**

A data frame with 30 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

`grid_pohjois_savo`*custom geofacet grid for Pohjois-Savo region*

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**`grid_pohjois_savo`**Format**

A data frame with 19 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid\_sairaanhoitop      *custom geofacet grid for health care districts*

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

grid\_sairaanhoitop

**Format**

A data frame with 21 rows and 4 variables:

**name** District name (Sairaanhoitopiiri) in Finnish

**code** District code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid\_satakunta      *custom geofacet grid for Satakunta region*

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

grid\_satakunta

**Format**

A data frame with 16 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid



---

grid_uusimaa	<i>custom geofacet grid for Uusimaa region</i>
--------------	--

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

```
grid_uusimaa
```

**Format**

A data frame with 26 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

grid_varsinais_suomi	<i>custom geofacet grid for Varsinais-Suomi region</i>
----------------------	--

---

**Description**

Grid table to be used with ggplot2 and geofacet

**Usage**

```
grid_varsinais_suomi
```

**Format**

A data frame with 27 rows and 4 variables:

**name** Municipality name (kunta) in Finnish

**code** Municipality code

**row** Vertical location in grid

**col** Horizontal location in grid

---

municipality\_central\_localities

*A simple feature point data containing locations of municipalities central localities*

---

### Description

Data is extracted from latest version (January 2021) of Topographic Database (Maastotietokanta) by National Land Survey of Finland (Maanmittauslaitos)

### Usage

municipality\_central\_localities

### Format

A simple feature POINT data with 311 rows and 17 variables:

**id** id

**mtk\_id** mtk\_id

**sijaintitarkkuus** location precision

**aineistolahde** data source

**alkupvm** start date

**teksti** Municipality name

**suunta** direction

**dx** dx

**dy** dy

**kohdeluokka** kohdeluokka

**ladontatunnus** ladontatunnus

**kirjasintyypikoodi** kirjasintyypikoodi

**kirjasinkoko** kirjasinkoko

**kirjasinvarikoodi** kirjasinvarikoodi

**kirjasinkallistuskulma** kirjasinkallistuskulma

**kirjasinvalyskerroin** kirjasinvalyskerroin

**kuntatunnus** municipality code

**geom** geom

---

municipality_key	<i>Aggregated municipality key table for years 2013-2021</i>
------------------	--

---

### Description

Table for aggregating municipality level data to various regional groupings

### Usage

municipality\_key

### Format

A data frame with 2519 rows and 75 variables:

**kunta** Municipality code

**municipality\_name\_fi** Municipality name in Finnish

**municipality\_name\_sv** Municipality name in Swedish

**municipality\_name\_en** Municipality name in English

**kuntaryhmitys\_code** Tilastollinen kuntaryhmitys (Statistical grouping) code

**kuntaryhmitys\_name\_fi** Tilastollinen kuntaryhmitys (Statistical grouping) name in Finnish

**kuntaryhmitys\_name\_sv** Tilastollinen kuntaryhmitys (Statistical grouping) name in Swedish

**kuntaryhmitys\_name\_en** Tilastollinen kuntaryhmitys (Statistical grouping) name in English

**avi\_code** Aluehallintovirasto code (Regional State Administrative Agencies)

**avi\_name\_fi** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)

**avi\_name\_sv** Aluehallintovirasto name in Swedish (Regional State Administrative Agencies)

**avi\_name\_en** Aluehallintovirasto name in English (Regional State Administrative Agencies)

**ely\_code** Elinkeino-, liikenne- ja ympäristökeskuksen code (Centre for Economic Development, Transport and the Environment)

**ely\_name\_fi** Elinkeino-, liikenne- ja ympäristökeskuksen name in Finnish (Centre for Economic Development, Transport and the Environment)

**ely\_name\_sv** Elinkeino-, liikenne- ja ympäristökeskuksen name in Swedish (Centre for Economic Development, Transport and the Environment)

**ely\_name\_en** Elinkeino-, liikenne- ja ympäristökeskuksen name in English (Centre for Economic Development, Transport and the Environment)

**maakunta\_code** Maakunta code (Regions of Finland)

**maakunta\_name\_fi** Maakunta name in Finnish (Regions of Finland)

**maakunta\_name\_sv** Maakunta name in Swedish (Regions of Finland)

**maakunta\_name\_en** Maakunta name in English (Regions of Finland)

**kielisuhde\_code** Kielisuhde code (Language distribution 2020)

**kielisuhde\_name\_fi** Kielisuhde name in Finnish (Language distribution 2020)

**kielisuhte\_name\_sv** Kielisuhte name in Swedish (Language distribution 2020)  
**kielisuhte\_name\_en** Kielisuhte name in English (Language distribution 2020)  
**seutukunta\_code** Seutukunta code (Sub-regions of Finland)  
**seutukunta\_name\_fi** Seutukunta name in Finnish (Sub-regions of Finland)  
**seutukunta\_name\_sv** Seutukunta name in Swedish (Sub-regions of Finland)  
**seutukunta\_name\_en** Seutukunta name in English (Sub-regions of Finland)  
**year** data year  
**suuralue\_code** Suuralue code  
**suuralue\_name\_fi** Suuralueen nimi in Finnish (Large Areas)  
**suuralue\_name\_sv** Suuralueen nimi in Swedish (Large Areas)  
**suuralue\_name\_en** Suuralueen nimi in English (Large Areas)  
**sairaanhoitop\_code** Sairaanhoitopiiri code (Health care districts)  
**sairaanhoitop\_name\_fi** Sairaanhoitopiiri name in Finnish (Health care districts)  
**sairaanhoitop\_name\_sv** Sairaanhoitopiiri name in Swedish (Health care districts)  
**sairaanhoitop\_name\_en** Sairaanhoitopiiri name in English (Health care districts)  
**nuts1\_code** NUTS 2016 classification code (level 1)  
**nuts1\_name\_fi** NUTS 2016 classification name in Finnish (level 1)  
**nuts1\_name\_sv** NUTS 2016 classification name in Swedish (level 1)  
**nuts1\_name\_en** NUTS 2016 classification name in English (level 1)  
**nuts2\_code** NUTS 2016 classification code (level 2)  
**nuts2\_name\_fi** NUTS 2016 classification name in Finnish (level 2)  
**nuts2\_name\_sv** NUTS 2016 classification name in Swedish (level 2)  
**nuts2\_name\_en** nuts2\_name\_en  
**nuts3\_code** NUTS 2016 classification code (level 2)  
**nuts3\_name\_fi** NUTS 2016 classification name in Finnish (level 3)  
**nuts3\_name\_sv** NUTS 2016 classification name in Swedish (level 3)  
**nuts3\_name\_en** NUTS 2016 classification name in English (level 3)  
**tyossakayntial\_code** Työssäkäyntialue code  
**tyossakayntial\_name\_fi** Työssäkäyntialue name in Finnish  
**vaalipiiri\_code** Vaalipiiri code (Constituencies)  
**vaalipiiri\_name\_fi** Vaalipiiri name in Finnish (Constituencies)  
**vaalipiiri\_name\_sv** Vaalipiiri name in Swedish (Constituencies)  
**vaalipiiri\_name\_en** Vaalipiiri name in English (Constituencies)  
**municipality\_code** Municipality code  
**kunta\_name** Municipality name in Finnish  
**name\_fi** Municipality name in Finnish  
**name\_sv** Municipality name in Finnish

- erva\_code** Sairaanhoidon erityisvastuualueen code (Catchment areas for highly specialised medical care)
- erva\_name\_fi** Sairaanhoidon erityisvastuualueen name in Finnish (Catchment areas for highly specialised medical care)
- erva\_name\_sv** Sairaanhoidon erityisvastuualueen name in Swedish (Catchment areas for highly specialised medical care)
- erva\_name\_en** Sairaanhoidon erityisvastuualueen name in English (Catchment areas for highly specialised medical care)
- kela\_vakuutuspiiri\_name\_fi** Kelan vakuutuspiiri name in Finnish (Insurance District)
- kela\_vakuutuspiiri\_code** Kelan vakuutuspiiri unofficial code (Insurance District)
- kela\_vakuutuspiiri\_name\_sv** Kelan vakuutuspiiri name in Swedish (Insurance District)
- kela\_vakuutuspiiri\_name\_en** Kelan vakuutuspiiri name in English (Insurance District)
- kela\_asumistukialue\_name\_fi** Kelan asumistuen kuntaryhmät name in Finnish (Municipality categories for housing allowance)
- kela\_asumistukialue\_code** Kelan asumistuen kuntaryhmät unofficial code (Municipality categories for housing allowance)
- kela\_asumistukialue\_name\_sv** Kelan asumistuen kuntaryhmät name in Swedish (Municipality categories for housing allowance)
- kela\_asumistukialue\_name\_en** Kelan asumistuen kuntaryhmät name in English (Municipality categories for housing allowance)
- hyvinvointialue\_name\_fi** Hyvinvointialue name in Finnish (Wellbeing services counties)
- hyvinvointialue\_name\_sv** Hyvinvointialue name in Swedish (Wellbeing services counties)
- hyvinvointialue\_name\_en** Hyvinvointialue name in English (Wellbeing services counties)
- hyvinvointialue\_code** Hyvinvointialue code (Wellbeing services counties)

### Source

<https://data.stat.fi/api/classifications/v2/classifications>

---

municipality\_key\_2013 *Municipality key table for 2013*

---

### Description

Table for aggregating municipality level data to various regional groupings

### Usage

municipality\_key\_2013

**Format**

A data frame with 320 rows and 33 variables:

**kunta** Municipality code  
**municipality\_name\_fi** Municipality name in Finnish  
**municipality\_name\_sv** Municipality name in Swedish  
**municipality\_name\_en** Municipality name in English  
**kuntaryhmitys\_code** Tilastollinen kuntaryhmitys (Statistical grouping) code  
**kuntaryhmitys\_name\_fi** Tilastollinen kuntaryhmitys (Statistical grouping) name in Finnish  
**kuntaryhmitys\_name\_sv** Tilastollinen kuntaryhmitys (Statistical grouping) name in Swedish  
**kuntaryhmitys\_name\_en** Tilastollinen kuntaryhmitys (Statistical grouping) name in English  
**avi\_code** Aluehallintovirasto code (Regional State Administrative Agencies)  
**avi\_name\_fi** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)  
**avi\_name\_sv** Aluehallintovirasto name in Swedish (Regional State Administrative Agencies)  
**avi\_name\_en** Aluehallintovirasto name in English (Regional State Administrative Agencies)  
**ely\_code** Elinkeino-, liikenne- ja ympäristökeskuksen code (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_fi** Elinkeino-, liikenne- ja ympäristökeskuksen name in Finnish (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_sv** Elinkeino-, liikenne- ja ympäristökeskuksen name in Swedish (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_en** Elinkeino-, liikenne- ja ympäristökeskuksen name in English (Centre for Economic Development, Transport and the Environment)  
**maakunta\_code** Maakunta code (Regions of Finland)  
**maakunta\_name\_fi** Maakunta name in Finnish (Regions of Finland)  
**maakunta\_name\_sv** Maakunta name in Swedish (Regions of Finland)  
**maakunta\_name\_en** Maakunta name in English (Regions of Finland)  
**kielisuhde\_code** Kielisuhde code (Language distribution 2020)  
**kielisuhde\_name\_fi** Kielisuhde name in Finnish (Language distribution 2020)  
**kielisuhde\_name\_sv** Kielisuhde name in Swedish (Language distribution 2020)  
**kielisuhde\_name\_en** Kielisuhde name in English (Language distribution 2020)  
**seutukunta\_code** Seutukunta code (Sub-regions of Finland)  
**seutukunta\_name\_fi** Seutukunta name in Finnish (Sub-regions of Finland)  
**seutukunta\_name\_sv** Seutukunta name in Swedish (Sub-regions of Finland)  
**seutukunta\_name\_en** Seutukunta name in English (Sub-regions of Finland)  
**year** data year  
**municipality\_code** Municipality code  
**kunta\_name** Municipality name in Finnish  
**name\_fi** Municipality name in Finnish  
**name\_sv** Municipality name in Swedish

**Source**

<https://data.stat.fi/api/classifications/v2/classifications>

---

municipality\_key\_2014 *Municipality key table for 2014*

---

**Description**

Table for aggregating municipality level data to various regional groupings

**Usage**

municipality\_key\_2014

**Format**

A data frame with 320 rows and 37 variables:

**kunta** Municipality code

**municipality\_name\_fi** Municipality name in Finnish

**municipality\_name\_sv** Municipality name in Swedish

**municipality\_name\_en** Municipality name in English

**kuntaryhmitys\_code** Tilastollinen kuntaryhmitys (Statistical grouping) code

**kuntaryhmitys\_name\_fi** Tilastollinen kuntaryhmitys (Statistical grouping) name in Finnish

**kuntaryhmitys\_name\_sv** Tilastollinen kuntaryhmitys (Statistical grouping) name in Swedish

**kuntaryhmitys\_name\_en** Tilastollinen kuntaryhmitys (Statistical grouping) name in English

**avi\_code** Aluehallintovirasto code (Regional State Administrative Agencies)

**avi\_name\_fi** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)

**avi\_name\_sv** Aluehallintovirasto name in Swedish (Regional State Administrative Agencies)

**avi\_name\_en** Aluehallintovirasto name in English (Regional State Administrative Agencies)

**ely\_code** Elinkeino-, liikenne- ja ympäristökeskuksen code (Centre for Economic Development, Transport and the Environment)

**ely\_name\_fi** Elinkeino-, liikenne- ja ympäristökeskuksen name in Finnish (Centre for Economic Development, Transport and the Environment)

**ely\_name\_sv** Elinkeino-, liikenne- ja ympäristökeskuksen name in Swedish (Centre for Economic Development, Transport and the Environment)

**ely\_name\_en** Elinkeino-, liikenne- ja ympäristökeskuksen name in English (Centre for Economic Development, Transport and the Environment)

**maakunta\_code** Maakunta code (Regions of Finland)

**maakunta\_name\_fi** Maakunta name in Finnish (Regions of Finland)

**maakunta\_name\_sv** Maakunta name in Swedish (Regions of Finland)

**maakunta\_name\_en** Maakunta name in English (Regions of Finland)  
**kielisuhde\_code** Kielisuhde code (Language distribution 2020)  
**kielisuhde\_name\_fi** Kielisuhde name in Finnish (Language distribution 2020)  
**kielisuhde\_name\_sv** Kielisuhde name in Swedish (Language distribution 2020)  
**kielisuhde\_name\_en** Kielisuhde name in English (Language distribution 2020)  
**seutukunta\_code** Seutukunta code (Sub-regions of Finland)  
**seutukunta\_name\_fi** Seutukunta name in Finnish (Sub-regions of Finland)  
**seutukunta\_name\_sv** Seutukunta name in Swedish (Sub-regions of Finland)  
**seutukunta\_name\_en** Seutukunta name in English (Sub-regions of Finland)  
**year** data year  
**suuralue\_code** Suuralue code  
**suuralue\_name\_fi** Suuralueen nimi in Finnish (Large Areas)  
**suuralue\_name\_sv** Suuralueen nimi in Swedish (Large Areas)  
**suuralue\_name\_en** Suuralueen nimi in English (Large Areas)  
**municipality\_code** Municipality code  
**kunta\_name** Municipality name in Finnish  
**name\_fi** Municipality name in Finnish  
**name\_sv** Municipality name in Finnish

### Source

<https://data.stat.fi/api/classifications/v2/classifications>

---

municipality\_key\_2015 *Municipality key table for 2015*

---

### Description

Table for aggregating municipality level data to various regional groupings

### Usage

municipality\_key\_2015

### Format

A data frame with 317 rows and 37 variables:

**kunta** Municipality code  
**municipality\_name\_fi** Municipality name in Finnish  
**municipality\_name\_sv** Municipality name in Swedish  
**municipality\_name\_en** Municipality name in English



**kuntaryhmitys\_code** Tilastollinen kuntaryhmitys (Statistical grouping) code  
**kuntaryhmitys\_name\_fi** Tilastollinen kuntaryhmitys (Statistical grouping) name in Finnish  
**kuntaryhmitys\_name\_sv** Tilastollinen kuntaryhmitys (Statistical grouping) name in Swedish  
**kuntaryhmitys\_name\_en** Tilastollinen kuntaryhmitys (Statistical grouping) name in English  
**avi\_code** Aluehallintovirasto code (Regional State Administrative Agencies)  
**avi\_name\_fi** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)  
**avi\_name\_sv** Aluehallintovirasto name in Swedish (Regional State Administrative Agencies)  
**avi\_name\_en** Aluehallintovirasto name in English (Regional State Administrative Agencies)  
**ely\_code** Elinkeino-, liikenne- ja ympäristökeskuksen code (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_fi** Elinkeino-, liikenne- ja ympäristökeskuksen name in Finnish (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_sv** Elinkeino-, liikenne- ja ympäristökeskuksen name in Swedish (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_en** Elinkeino-, liikenne- ja ympäristökeskuksen name in English (Centre for Economic Development, Transport and the Environment)  
**maakunta\_code** Maakunta code (Regions of Finland)  
**maakunta\_name\_fi** Maakunta name in Finnish (Regions of Finland)  
**maakunta\_name\_sv** Maakunta name in Swedish (Regions of Finland)  
**maakunta\_name\_en** Maakunta name in English (Regions of Finland)  
**kielisuhde\_code** Kielisuhde code (Language distribution 2020)  
**kielisuhde\_name\_fi** Kielisuhde name in Finnish (Language distribution 2020)  
**kielisuhde\_name\_sv** Kielisuhde name in Swedish (Language distribution 2020)  
**kielisuhde\_name\_en** Kielisuhde name in English (Language distribution 2020)  
**seutukunta\_code** Seutukunta code (Sub-regions of Finland)  
**seutukunta\_name\_fi** Seutukunta name in Finnish (Sub-regions of Finland)  
**seutukunta\_name\_sv** Seutukunta name in Swedish (Sub-regions of Finland)  
**seutukunta\_name\_en** Seutukunta name in English (Sub-regions of Finland)  
**year** data year  
**suuralue\_code** Suuralue code  
**suuralue\_name\_fi** Suuralueen nimi in Finnish (Large Areas)  
**suuralue\_name\_sv** Suuralueen nimi in Swedish (Large Areas)  
**suuralue\_name\_en** Suuralueen nimi in English (Large Areas)  
**municipality\_code** Municipality code  
**kunta\_name** Municipality name in Finnish  
**name\_fi** Municipality name in Finnish  
**name\_sv** Municipality name in Swedish

#### Source

<https://data.stat.fi/api/classifications/v2/classifications>

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municipality\_key\_2016 *Municipality key table for 2016*

---

### Description

Table for aggregating municipality level data to various regional groupings

### Usage

municipality\_key\_2016

### Format

A data frame with 313 rows and 37 variables:

**kunta** Municipality code

**municipality\_name\_fi** Municipality name in Finnish

**municipality\_name\_sv** Municipality name in Swedish

**municipality\_name\_en** Municipality name in English

**kuntaryhmitys\_code** Tilastollinen kuntaryhmitys (Statistical grouping) code

**kuntaryhmitys\_name\_fi** Tilastollinen kuntaryhmitys (Statistical grouping) name in Finnish

**kuntaryhmitys\_name\_sv** Tilastollinen kuntaryhmitys (Statistical grouping) name in Swedish

**kuntaryhmitys\_name\_en** Tilastollinen kuntaryhmitys (Statistical grouping) name in English

**avi\_code** Aluehallintovirasto code (Regional State Administrative Agencies)

**avi\_name\_fi** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)

**avi\_name\_sv** Aluehallintovirasto name in Swedish (Regional State Administrative Agencies)

**avi\_name\_en** Aluehallintovirasto name in English (Regional State Administrative Agencies)

**ely\_code** Elinkeino-, liikenne- ja ympäristökeskuksen code (Centre for Economic Development, Transport and the Environment)

**ely\_name\_fi** Elinkeino-, liikenne- ja ympäristökeskuksen name in Finnish (Centre for Economic Development, Transport and the Environment)

**ely\_name\_sv** Elinkeino-, liikenne- ja ympäristökeskuksen name in Swedish (Centre for Economic Development, Transport and the Environment)

**ely\_name\_en** Elinkeino-, liikenne- ja ympäristökeskuksen name in English (Centre for Economic Development, Transport and the Environment)

**maakunta\_code** Maakunta code (Regions of Finland)

**maakunta\_name\_fi** Maakunta name in Finnish (Regions of Finland)

**maakunta\_name\_sv** Maakunta name in Swedish (Regions of Finland)

**maakunta\_name\_en** Maakunta name in English (Regions of Finland)

**kielisuhde\_code** Kielisuhde code (Language distribution 2020)

**kielisuhde\_name\_fi** Kielisuhde name in Finnish (Language distribution 2020)

**kielisuuhde\_name\_sv** Kielisuuhde name in Swedish (Language distribution 2020)  
**kielisuuhde\_name\_en** Kielisuuhde name in English (Language distribution 2020)  
**seutukunta\_code** Seutukunta code (Sub-regions of Finland)  
**seutukunta\_name\_fi** Seutukunta name in Finnish (Sub-regions of Finland)  
**seutukunta\_name\_sv** Seutukunta name in Swedish (Sub-regions of Finland)  
**seutukunta\_name\_en** Seutukunta name in English (Sub-regions of Finland)  
**year** data year  
**suuralue\_code** Suuralue code  
**suuralue\_name\_fi** Suuralueen nimi in Finnish (Large Areas)  
**suuralue\_name\_sv** Suuralueen nimi in Swedish (Large Areas)  
**suuralue\_name\_en** Suuralueen nimi in English (Large Areas)  
**municipality\_code** Municipality code  
**kunta\_name** Municipality name in Finnish  
**name\_fi** Municipality name in Finnish  
**name\_sv** Municipality name in Finnish

#### Source

<https://data.stat.fi/api/classifications/v2/classifications>

---

municipality\_key\_2017 *Municipality key table for 2017*

---

#### Description

Table for aggregating municipality level data to various regional groupings

#### Usage

municipality\_key\_2017

#### Format

A data frame with 311 rows and 53 variables:

**kunta** Municipality code  
**municipality\_name\_fi** Municipality name in Finnish  
**municipality\_name\_sv** Municipality name in Swedish  
**municipality\_name\_en** Municipality name in English  
**kuntaryhmitys\_code** Tilastollinen kuntaryhmitys (Statistical grouping) code  
**kuntaryhmitys\_name\_fi** Tilastollinen kuntaryhmitys (Statistical grouping) name in Finnish  
**kuntaryhmitys\_name\_sv** Tilastollinen kuntaryhmitys (Statistical grouping) name in Swedish

**kuntaryhmitys\_name\_en** Tilastollinen kuntaryhmitys (Statistical grouping) name in English

**avi\_code** Aluehallintovirasto code (Regional State Administrative Agencies)

**avi\_name\_fi** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)

**avi\_name\_sv** Aluehallintovirasto name in Swedish (Regional State Administrative Agencies)

**avi\_name\_en** Aluehallintovirasto name in English (Regional State Administrative Agencies)

**ely\_code** Elinkeino-, liikenne- ja ympäristökeskuksen code (Centre for Economic Development, Transport and the Environment)

**ely\_name\_fi** Elinkeino-, liikenne- ja ympäristökeskuksen name in Finnish (Centre for Economic Development, Transport and the Environment)

**ely\_name\_sv** Elinkeino-, liikenne- ja ympäristökeskuksen name in Swedish (Centre for Economic Development, Transport and the Environment)

**ely\_name\_en** Elinkeino-, liikenne- ja ympäristökeskuksen name in English (Centre for Economic Development, Transport and the Environment)

**maakunta\_code** Maakunta code (Regions of Finland)

**maakunta\_name\_fi** Maakunta name in Finnish (Regions of Finland)

**maakunta\_name\_sv** Maakunta name in Swedish (Regions of Finland)

**maakunta\_name\_en** Maakunta name in English (Regions of Finland)

**kielisuhde\_code** Kielisuhde code (Language distribution 2020)

**kielisuhde\_name\_fi** Kielisuhde name in Finnish (Language distribution 2020)

**kielisuhde\_name\_sv** Kielisuhde name in Swedish (Language distribution 2020)

**kielisuhde\_name\_en** Kielisuhde name in English (Language distribution 2020)

**seutukunta\_code** Seutukunta code (Sub-regions of Finland)

**seutukunta\_name\_fi** Seutukunta name in Finnish (Sub-regions of Finland)

**seutukunta\_name\_sv** Seutukunta name in Swedish (Sub-regions of Finland)

**seutukunta\_name\_en** Seutukunta name in English (Sub-regions of Finland)

**year** data year

**suuralue\_code** Suuralue code

**suuralue\_name\_fi** Suuralueen nimi in Finnish (Large Areas)

**suuralue\_name\_sv** Suuralueen nimi in Swedish (Large Areas)

**suuralue\_name\_en** Suuralueen nimi in English (Large Areas)

**sairaanhoitop\_code** Sairaanhoitopiiri code (Health care districts)

**sairaanhoitop\_name\_fi** Sairaanhoitopiiri name in Finnish (Health care districts)

**sairaanhoitop\_name\_sv** Sairaanhoitopiiri name in Swedish (Health care districts)

**sairaanhoitop\_name\_en** Sairaanhoitopiiri name in English (Health care districts)

**nuts1\_code** NUTS 2016 classification code (level 1)

**nuts1\_name\_fi** NUTS 2016 classification name in Finnish (level 1)

**nuts1\_name\_sv** NUTS 2016 classification name in Swedish (level 1)

**nuts1\_name\_en** NUTS 2016 classification name in English (level 1)

**nuts2\_code** NUTS 2016 classification code (level 2)  
**nuts2\_name\_fi** NUTS 2016 classification name in Finnish (level 2)  
**nuts2\_name\_sv** NUTS 2016 classification name in Swedish (level 2)  
**nuts2\_name\_en** nuts2\_name\_en  
**nuts3\_code** NUTS 2016 classification code (level 2)  
**nuts3\_name\_fi** NUTS 2016 classification name in Finnish (level 3)  
**nuts3\_name\_sv** NUTS 2016 classification name in Swedish (level 3)  
**nuts3\_name\_en** NUTS 2016 classification name in English (level 3)  
**municipality\_code** Municipality code  
**kunta\_name** Municipality name in Finnish  
**name\_fi** Municipality name in Finnish  
**name\_sv** Municipality name in Finnish

### Source

<https://data.stat.fi/api/classifications/v2/classifications>

---

municipality\_key\_2018 *Municipality key table for 2018*

---

### Description

Table for aggregating municipality level data to various regional groupings

### Usage

municipality\_key\_2018

### Format

A data frame with 311 rows and 63 variables:

**kunta** Municipality code  
**municipality\_name\_fi** Municipality name in Finnish  
**municipality\_name\_sv** Municipality name in Swedish  
**municipality\_name\_en** Municipality name in English  
**kuntaryhmitys\_code** Tilastollinen kuntaryhmitys (Statistical grouping) code  
**kuntaryhmitys\_name\_fi** Tilastollinen kuntaryhmitys (Statistical grouping) name in Finnish  
**kuntaryhmitys\_name\_sv** Tilastollinen kuntaryhmitys (Statistical grouping) name in Swedish  
**kuntaryhmitys\_name\_en** Tilastollinen kuntaryhmitys (Statistical grouping) name in English  
**avi\_code** Aluehallintovirasto code (Regional State Administrative Agencies)  
**avi\_name\_fi** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)

**avi\_name\_sv** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)  
**avi\_name\_en** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)  
**ely\_code** Elinkeino-, liikenne- ja ympäristökeskuksen code (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_fi** Elinkeino-, liikenne- ja ympäristökeskuksen name in Finnish (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_sv** Elinkeino-, liikenne- ja ympäristökeskuksen name in Swedish (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_en** Elinkeino-, liikenne- ja ympäristökeskuksen name in English (Centre for Economic Development, Transport and the Environment)  
**maakunta\_code** Maakunta code (Regions of Finland)  
**maakunta\_name\_fi** Maakunta name in Finnish (Regions of Finland)  
**maakunta\_name\_sv** Maakunta name in Swedish (Regions of Finland)  
**maakunta\_name\_en** Maakunta name in English (Regions of Finland)  
**kielisuhde\_code** Kielisuhde code (Language distribution 2020)  
**kielisuhde\_name\_fi** Kielisuhde name in Finnish (Language distribution 2020)  
**kielisuhde\_name\_sv** Kielisuhde name in Swedish (Language distribution 2020)  
**kielisuhde\_name\_en** Kielisuhde name in English (Language distribution 2020)  
**seutukunta\_code** Seutukunta code (Sub-regions of Finland)  
**seutukunta\_name\_fi** Seutukunta name in Finnish (Sub-regions of Finland)  
**seutukunta\_name\_sv** Seutukunta name in Swedish (Sub-regions of Finland)  
**seutukunta\_name\_en** Seutukunta name in English (Sub-regions of Finland)  
**year** data year  
**suuralue\_code** Suuralue code  
**suuralue\_name\_fi** Suuralueen nimi in Finnish (Large Areas)  
**suuralue\_name\_sv** Suuralueen nimi in Swedish (Large Areas)  
**suuralue\_name\_en** Suuralueen nimi in English (Large Areas)  
**sairaanhoitop\_code** Sairaanhoitopiiri code (Health care districts)  
**sairaanhoitop\_name\_fi** Sairaanhoitopiiri name in Finnish (Health care districts)  
**sairaanhoitop\_name\_sv** Sairaanhoitopiiri name in Swedish (Health care districts)  
**sairaanhoitop\_name\_en** Sairaanhoitopiiri name in English (Health care districts)  
**nuts1\_code** NUTS 2016 classification code (level 1)  
**nuts1\_name\_fi** NUTS 2016 classification name in Finnish (level 1)  
**nuts1\_name\_sv** NUTS 2016 classification name in Swedish (level 1)  
**nuts1\_name\_en** NUTS 2016 classification name in English (level 1)  
**nuts2\_code** NUTS 2016 classification code (level 2)  
**nuts2\_name\_fi** NUTS 2016 classification name in Finnish (level 2)  
**nuts2\_name\_sv** NUTS 2016 classification name in Swedish (level 2)

**nuts2\_name\_en** nuts2\_name\_en  
**nuts3\_code** NUTS 2016 classification code (level 2)  
**nuts3\_name\_fi** NUTS 2016 classification name in Finnish (level 3)  
**nuts3\_name\_sv** NUTS 2016 classification name in Swedish (level 3)  
**nuts3\_name\_en** NUTS 2016 classification name in English (level 3)  
**tyossakayntial\_code** Työssäkäyntialue code  
**tyossakayntial\_name\_fi** Työssäkäyntialue name in Finnish  
**municipality\_code** Municipality code  
**kunta\_name** Municipality name in Finnish  
**name\_fi** Municipality name in Finnish  
**name\_sv** Municipality name in Finnish  
**erva\_code** Sairaanhoidon erityisvastuualueen code (Catchment areas for highly specialised medical care)  
**erva\_name\_fi** Sairaanhoidon erityisvastuualueen name in Finnish (Catchment areas for highly specialised medical care)  
**erva\_name\_sv** Sairaanhoidon erityisvastuualueen name in Swedish (Catchment areas for highly specialised medical care)  
**erva\_name\_en** Sairaanhoidon erityisvastuualueen name in English (Catchment areas for highly specialised medical care)  
**hyvinvointialue\_name\_fi** Hyvinvointialue name in Finnish (Wellbeing services counties)  
**hyvinvointialue\_name\_sv** Hyvinvointialue name in Swedish (Wellbeing services counties)  
**hyvinvointialue\_name\_en** Hyvinvointialue name in English (Wellbeing services counties)  
**hyvinvointialue\_code** Hyvinvointialue code (Wellbeing services counties)

#### Source

<https://data.stat.fi/api/classifications/v2/classifications>

---

municipality\_key\_2019 *Municipality key table for 2019*

---

#### Description

Table for aggregating municipality level data to various regional groupings

#### Usage

municipality\_key\_2019

**Format**

A data frame with 311 rows and 67 variables:

**kunta** Municipality code  
**municipality\_name\_fi** Municipality name in Finnish  
**municipality\_name\_sv** Municipality name in Swedish  
**municipality\_name\_en** Municipality name in English  
**kuntaryhmitys\_code** Tilastollinen kuntaryhmitys (Statistical grouping) code  
**kuntaryhmitys\_name\_fi** Tilastollinen kuntaryhmitys (Statistical grouping) name in Finnish  
**kuntaryhmitys\_name\_sv** Tilastollinen kuntaryhmitys (Statistical grouping) name in Swedish  
**kuntaryhmitys\_name\_en** Tilastollinen kuntaryhmitys (Statistical grouping) name in English  
**avi\_code** Aluehallintovirasto code (Regional State Administrative Agencies)  
**avi\_name\_fi** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)  
**avi\_name\_sv** Aluehallintovirasto name in Swedish (Regional State Administrative Agencies)  
**avi\_name\_en** Aluehallintovirasto name in English (Regional State Administrative Agencies)  
**ely\_code** Elinkeino-, liikenne- ja ympäristökeskuksen code (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_fi** Elinkeino-, liikenne- ja ympäristökeskuksen name in Finnish (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_sv** Elinkeino-, liikenne- ja ympäristökeskuksen name in Swedish (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_en** Elinkeino-, liikenne- ja ympäristökeskuksen name in English (Centre for Economic Development, Transport and the Environment)  
**maakunta\_code** Maakunta code (Regions of Finland)  
**maakunta\_name\_fi** Maakunta name in Finnish (Regions of Finland)  
**maakunta\_name\_sv** Maakunta name in Swedish (Regions of Finland)  
**maakunta\_name\_en** Maakunta name in English (Regions of Finland)  
**kielisuhde\_code** Kielisuhde code (Language distribution 2020)  
**kielisuhde\_name\_fi** Kielisuhde name in Finnish (Language distribution 2020)  
**kielisuhde\_name\_sv** Kielisuhde name in Swedish (Language distribution 2020)  
**kielisuhde\_name\_en** Kielisuhde name in English (Language distribution 2020)  
**seutukunta\_code** Seutukunta code (Sub-regions of Finland)  
**seutukunta\_name\_fi** Seutukunta name in Finnish (Sub-regions of Finland)  
**seutukunta\_name\_sv** Seutukunta name in Swedish (Sub-regions of Finland)  
**seutukunta\_name\_en** Seutukunta name in English (Sub-regions of Finland)  
**year** data year  
**suuralue\_code** Suuralue code  
**suuralue\_name\_fi** Suuralueen nimi in Finnish (Large Areas)  
**suuralue\_name\_sv** Suuralueen nimi in Swedish (Large Areas)



**suuralue\_name\_en** Suuralueen nimi in English (Large Areas)  
**sairaanhoitop\_code** Sairaanhoitopiiri code (Health care districts)  
**sairaanhoitop\_name\_fi** Sairaanhoitopiiri name in Finnish (Health care districts)  
**sairaanhoitop\_name\_sv** Sairaanhoitopiiri name in Swedish (Health care districts)  
**sairaanhoitop\_name\_en** Sairaanhoitopiiri name in English (Health care districts)  
**nuts1\_code** NUTS 2016 classification code (level 1)  
**nuts1\_name\_fi** NUTS 2016 classification name in Finnish (level 1)  
**nuts1\_name\_sv** NUTS 2016 classification name in Swedish (level 1)  
**nuts1\_name\_en** NUTS 2016 classification name in English (level 1)  
**nuts2\_code** NUTS 2016 classification code (level 2)  
**nuts2\_name\_fi** NUTS 2016 classification name in Finnish (level 2)  
**nuts2\_name\_sv** NUTS 2016 classification name in Swedish (level 2)  
**nuts2\_name\_en** nuts2\_name\_en  
**nuts3\_code** NUTS 2016 classification code (level 2)  
**nuts3\_name\_fi** NUTS 2016 classification name in Finnish (level 3)  
**nuts3\_name\_sv** NUTS 2016 classification name in Swedish (level 3)  
**nuts3\_name\_en** NUTS 2016 classification name in English (level 3)  
**tyossakayntial\_code** Työssäkäyntialue code  
**tyossakayntial\_name\_fi** Työssäkäyntialue name in Finnish  
**vaalipiiri\_code** Vaalipiiri code (Constituencies)  
**vaalipiiri\_name\_fi** Vaalipiiri name in Finnish (Constituencies)  
**vaalipiiri\_name\_sv** Vaalipiiri name in Swedish (Constituencies)  
**vaalipiiri\_name\_en** Vaalipiiri name in English (Constituencies)  
**municipality\_code** Municipality code  
**kunta\_name** Municipality name in Finnish  
**name\_fi** Municipality name in Finnish  
**name\_sv** Municipality name in Finnish  
**erva\_code** Sairaanhoidon erityisvastuualueen code (Catchment areas for highly specialised medical care)  
**erva\_name\_fi** Sairaanhoidon erityisvastuualueen name in Finnish (Catchment areas for highly specialised medical care)  
**erva\_name\_sv** Sairaanhoidon erityisvastuualueen name in Swedish (Catchment areas for highly specialised medical care)  
**erva\_name\_en** Sairaanhoidon erityisvastuualueen name in English (Catchment areas for highly specialised medical care)  
**hyvinvointialue\_name\_fi** Hyvinvointialue name in Finnish (Wellbeing services counties)  
**hyvinvointialue\_name\_sv** Hyvinvointialue name in Swedish (Wellbeing services counties)  
**hyvinvointialue\_name\_en** Hyvinvointialue name in English (Wellbeing services counties)  
**hyvinvointialue\_code** Hyvinvointialue code (Wellbeing services counties)

**Source**

<https://data.stat.fi/api/classifications/v2/classifications>

---

municipality\_key\_2020 *Municipality key table for 2020*

---

**Description**

Table for aggregating municipality level data to various regional groupings

**Usage**

municipality\_key\_2020

**Format**

A data frame with 310 rows and 75 variables:

**kunta** Municipality code

**municipality\_name\_fi** Municipality name in Finnish

**municipality\_name\_sv** Municipality name in Swedish

**municipality\_name\_en** Municipality name in English

**kuntaryhmitys\_code** Tilastollinen kuntaryhmitys (Statistical grouping) code

**kuntaryhmitys\_name\_fi** Tilastollinen kuntaryhmitys (Statistical grouping) name in Finnish

**kuntaryhmitys\_name\_sv** Tilastollinen kuntaryhmitys (Statistical grouping) name in Swedish

**kuntaryhmitys\_name\_en** Tilastollinen kuntaryhmitys (Statistical grouping) name in English

**avi\_code** Aluehallintovirasto code (Regional State Administrative Agencies)

**avi\_name\_fi** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)

**avi\_name\_sv** Aluehallintovirasto name in Swedish (Regional State Administrative Agencies)

**avi\_name\_en** Aluehallintovirasto name in English (Regional State Administrative Agencies)

**ely\_code** Elinkeino-, liikenne- ja ympäristökeskuksen code (Centre for Economic Development, Transport and the Environment)

**ely\_name\_fi** Elinkeino-, liikenne- ja ympäristökeskuksen name in Finnish (Centre for Economic Development, Transport and the Environment)

**ely\_name\_sv** Elinkeino-, liikenne- ja ympäristökeskuksen name in Swedish (Centre for Economic Development, Transport and the Environment)

**ely\_name\_en** Elinkeino-, liikenne- ja ympäristökeskuksen name in English (Centre for Economic Development, Transport and the Environment)

**maakunta\_code** Maakunta code (Regions of Finland)

**maakunta\_name\_fi** Maakunta name in Finnish (Regions of Finland)

**maakunta\_name\_sv** Maakunta name in Swedish (Regions of Finland)

**maakunta\_name\_en** Maakunta name in English (Regions of Finland)  
**kielisuhde\_code** Kielisuhde code (Language distribution 2020)  
**kielisuhde\_name\_fi** Kielisuhde name in Finnish (Language distribution 2020)  
**kielisuhde\_name\_sv** Kielisuhde name in Swedish (Language distribution 2020)  
**kielisuhde\_name\_en** Kielisuhde name in English (Language distribution 2020)  
**seutukunta\_code** Seutukunta code (Sub-regions of Finland)  
**seutukunta\_name\_fi** Seutukunta name in Finnish (Sub-regions of Finland)  
**seutukunta\_name\_sv** Seutukunta name in Swedish (Sub-regions of Finland)  
**seutukunta\_name\_en** Seutukunta name in English (Sub-regions of Finland)  
**year** data year  
**suuralue\_code** Suuralue code  
**suuralue\_name\_fi** Suuralueen nimi in Finnish (Large Areas)  
**suuralue\_name\_sv** Suuralueen nimi in Swedish (Large Areas)  
**suuralue\_name\_en** Suuralueen nimi in English (Large Areas)  
**sairaanhoitop\_code** Sairaanhoitopiiri code (Health care districts)  
**sairaanhoitop\_name\_fi** Sairaanhoitopiiri name in Finnish (Health care districts)  
**sairaanhoitop\_name\_sv** Sairaanhoitopiiri name in Swedish (Health care districts)  
**sairaanhoitop\_name\_en** Sairaanhoitopiiri name in English (Health care districts)  
**nuts1\_code** NUTS 2016 classification code (level 1)  
**nuts1\_name\_fi** NUTS 2016 classification name in Finnish (level 1)  
**nuts1\_name\_sv** NUTS 2016 classification name in Swedish (level 1)  
**nuts1\_name\_en** NUTS 2016 classification name in English (level 1)  
**nuts2\_code** NUTS 2016 classification code (level 2)  
**nuts2\_name\_fi** NUTS 2016 classification name in Finnish (level 2)  
**nuts2\_name\_sv** NUTS 2016 classification name in Swedish (level 2)  
**nuts2\_name\_en** nuts2\_name\_en  
**nuts3\_code** NUTS 2016 classification code (level 2)  
**nuts3\_name\_fi** NUTS 2016 classification name in Finnish (level 3)  
**nuts3\_name\_sv** NUTS 2016 classification name in Swedish (level 3)  
**nuts3\_name\_en** NUTS 2016 classification name in English (level 3)  
**tyossakayntial\_code** Työssäkäyntialue code  
**tyossakayntial\_name\_fi** Työssäkäyntialue name in Finnish  
**vaalipiiri\_code** Vaalipiiri code (Constituencies)  
**vaalipiiri\_name\_fi** Vaalipiiri name in Finnish (Constituencies)  
**vaalipiiri\_name\_sv** Vaalipiiri name in Swedish (Constituencies)  
**vaalipiiri\_name\_en** Vaalipiiri name in English (Constituencies)  
**municipality\_code** Municipality code

**kunta\_name** Municipality name in Finnish  
**name\_fi** Municipality name in Finnish  
**name\_sv** Municipality name in Finnish  
**erva\_code** Sairaanhoidon erityisvastuualueen code (Catchment areas for highly specialised medical care)  
**erva\_name\_fi** Sairaanhoidon erityisvastuualueen name in Finnish (Catchment areas for highly specialised medical care)  
**erva\_name\_sv** Sairaanhoidon erityisvastuualueen name in Swedish (Catchment areas for highly specialised medical care)  
**erva\_name\_en** Sairaanhoidon erityisvastuualueen name in English (Catchment areas for highly specialised medical care)  
**hyvinvointialue\_name\_fi** Hyvinvointialue name in Finnish (Wellbeing services counties)  
**hyvinvointialue\_name\_sv** Hyvinvointialue name in Swedish (Wellbeing services counties)  
**hyvinvointialue\_name\_en** Hyvinvointialue name in English (Wellbeing services counties)  
**hyvinvointialue\_code** Hyvinvointialue code (Wellbeing services counties)

#### Source

<https://data.stat.fi/api/classifications/v2/classifications>

---

municipality\_key\_2021 *Municipality key table for 2021*

---

#### Description

Table for aggregating municipality level data to various regional groupings

#### Usage

municipality\_key\_2021

#### Format

A data frame with 309 rows and 75 variables:

**kunta** Municipality code  
**municipality\_name\_fi** Municipality name in Finnish  
**municipality\_name\_sv** Municipality name in Swedish  
**municipality\_name\_en** Municipality name in English  
**kuntaryhmitys\_code** Tilastollinen kuntaryhmitys (Statistical grouping) code  
**kuntaryhmitys\_name\_fi** Tilastollinen kuntaryhmitys (Statistical grouping) name in Finnish  
**kuntaryhmitys\_name\_sv** Tilastollinen kuntaryhmitys (Statistical grouping) name in Swedish

**kuntaryhmitys\_name\_en** Tilastollinen kuntaryhmitys (Statistical grouping) name in English  
**avi\_code** Aluehallintovirasto code (Regional State Administrative Agencies)  
**avi\_name\_fi** Aluehallintovirasto name in Finnish (Regional State Administrative Agencies)  
**avi\_name\_sv** Aluehallintovirasto name in Swedish (Regional State Administrative Agencies)  
**avi\_name\_en** Aluehallintovirasto name in English (Regional State Administrative Agencies)  
**ely\_code** Elinkeino-, liikenne- ja ympäristökeskuksen code (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_fi** Elinkeino-, liikenne- ja ympäristökeskuksen name in Finnish (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_sv** Elinkeino-, liikenne- ja ympäristökeskuksen name in Swedish (Centre for Economic Development, Transport and the Environment)  
**ely\_name\_en** Elinkeino-, liikenne- ja ympäristökeskuksen name in English (Centre for Economic Development, Transport and the Environment)  
**maakunta\_code** Maakunta code (Regions of Finland)  
**maakunta\_name\_fi** Maakunta name in Finnish (Regions of Finland)  
**maakunta\_name\_sv** Maakunta name in Swedish (Regions of Finland)  
**maakunta\_name\_en** Maakunta name in English (Regions of Finland)  
**kielisuhde\_code** Kielisuhde code (Language distribution 2020)  
**kielisuhde\_name\_fi** Kielisuhde name in Finnish (Language distribution 2020)  
**kielisuhde\_name\_sv** Kielisuhde name in Swedish (Language distribution 2020)  
**kielisuhde\_name\_en** Kielisuhde name in English (Language distribution 2020)  
**seutukunta\_code** Seutukunta code (Sub-regions of Finland)  
**seutukunta\_name\_fi** Seutukunta name in Finnish (Sub-regions of Finland)  
**seutukunta\_name\_sv** Seutukunta name in Swedish (Sub-regions of Finland)  
**seutukunta\_name\_en** Seutukunta name in English (Sub-regions of Finland)  
**year** data year  
**suuralue\_code** Suuralue code  
**suuralue\_name\_fi** Suuralueen nimi in Finnish (Large Areas)  
**suuralue\_name\_sv** Suuralueen nimi in Swedish (Large Areas)  
**suuralue\_name\_en** Suuralueen nimi in English (Large Areas)  
**sairaanhoitop\_code** Sairaanhoitopiiri code (Health care districts)  
**sairaanhoitop\_name\_fi** Sairaanhoitopiiri name in Finnish (Health care districts)  
**sairaanhoitop\_name\_sv** Sairaanhoitopiiri name in Swedish (Health care districts)  
**sairaanhoitop\_name\_en** Sairaanhoitopiiri name in English (Health care districts)  
**nuts1\_code** NUTS 2016 classification code (level 1)  
**nuts1\_name\_fi** NUTS 2016 classification name in Finnish (level 1)  
**nuts1\_name\_sv** NUTS 2016 classification name in Swedish (level 1)  
**nuts1\_name\_en** NUTS 2016 classification name in English (level 1)

**nuts2\_code** NUTS 2016 classification code (level 2)  
**nuts2\_name\_fi** NUTS 2016 classification name in Finnish (level 2)  
**nuts2\_name\_sv** NUTS 2016 classification name in Swedish (level 2)  
**nuts2\_name\_en** nuts2\_name\_en  
**nuts3\_code** NUTS 2016 classification code (level 2)  
**nuts3\_name\_fi** NUTS 2016 classification name in Finnish (level 3)  
**nuts3\_name\_sv** NUTS 2016 classification name in Swedish (level 3)  
**nuts3\_name\_en** NUTS 2016 classification name in English (level 3)  
**tyossakayntial\_code** Työssäkäyntialue code  
**tyossakayntial\_name\_fi** Työssäkäyntialue name in Finnish  
**vaalipiiri\_code** Vaalipiiri code (Constituencies)  
**vaalipiiri\_name\_fi** Vaalipiiri name in Finnish (Constituencies)  
**vaalipiiri\_name\_sv** Vaalipiiri name in Swedish (Constituencies)  
**vaalipiiri\_name\_en** Vaalipiiri name in English (Constituencies)  
**municipality\_code** Municipality code  
**kunta\_name** Municipality name in Finnish  
**name\_fi** Municipality name in Finnish  
**name\_sv** Municipality name in Finnish  
**erva\_code** Sairaanhoidon erityisvastuualueen code (Catchment areas for highly specialised medical care)  
**erva\_name\_fi** Sairaanhoidon erityisvastuualueen name in Finnish (Catchment areas for highly specialised medical care)  
**erva\_name\_sv** Sairaanhoidon erityisvastuualueen name in Swedish (Catchment areas for highly specialised medical care)  
**erva\_name\_en** Sairaanhoidon erityisvastuualueen name in English (Catchment areas for highly specialised medical care)  
**kela\_vakuutuspiiri\_name\_fi** Kelan vakuutuspiiri name in Finnish (Insurance District)  
**kela\_vakuutuspiiri\_code** Kelan vakuutuspiiri unofficial code (Insurance District)  
**kela\_vakuutuspiiri\_name\_sv** Kelan vakuutuspiiri name in Swedish (Insurance District)  
**kela\_vakuutuspiiri\_name\_en** Kelan vakuutuspiiri name in English (Insurance District)  
**kela\_asumistukialue\_name\_fi** Kelan asumistuen kuntaryhmät name in Finnish (Municipality categories for housing allowance)  
**kela\_asumistukialue\_code** Kelan asumistuen kuntaryhmät unofficial code (Municipality categories for housing allowance)  
**kela\_asumistukialue\_name\_sv** Kelan asumistuen kuntaryhmät name in Swedish (Municipality categories for housing allowance)  
**kela\_asumistukialue\_name\_en** Kelan asumistuen kuntaryhmät name in English (Municipality categories for housing allowance)  
**hyvinvointialue\_name\_fi** Hyvinvointialue name in Finnish (Wellbeing services counties)  
**hyvinvointialue\_name\_sv** Hyvinvointialue name in Swedish (Wellbeing services counties)  
**hyvinvointialue\_name\_en** Hyvinvointialue name in English (Wellbeing services counties)  
**hyvinvointialue\_code** Hyvinvointialue code (Wellbeing services counties)

**Source**

<https://data.stat.fi/api/classifications/v2/classifications>

---

to_sf	<i>Transform a wfs_api object into a sf object.</i>
-------	---

---

**Description**

Statistics Finland WFS API response object's XML (GML) content is temporarily written on disk and then immediately read back in into a sf object.

**Usage**

```
to_sf(api_obj)
```

**Arguments**

api_obj	wfs api object
---------	----------------

**Value**

sf object

**Note**

For internal use, not exported.

**Author(s)**

Joona Lehtomäki [joona.lehtomaki@iki.fi](mailto:joona.lehtomaki@iki.fi)

---

wfs_api	<i>WFS API</i>
---------	----------------

---

**Description**

Requests to various WFS API.

**Usage**

```
wfs_api(base_url = "http://geo.stat.fi/geoserver/wfs", queries)
```

**Arguments**

base_url	string Api base url
queries	list List of query parameters

## Details

Make a request to the specific WFS API. The base url is `http://geo.stat.fi/geoserver/wfs` to which other components defined by the arguments are appended.

This is a low-level function intended to be used by other higher level functions in the package.

Note that GET requests are used using `httpcache` meaning that requests are cached. If you want clear cache, use `httpcache::clearCache()`. To turn the cache off completely, use `httpcache::cacheOff()`

## Value

`wfs_api` (S3) object with the following attributes:

**content** XML payload.

**path** path provided to get the response.

**response** the original response object.

## Author(s)

Joona Lehtomäki [joona.lehtomaki@iki.fi](mailto:joona.lehtomaki@iki.fi)

## Examples

```
wfs_api(base_url = "http://geo.stat.fi/geoserver/wfs",
        queries = append(list("service" = "WFS", "version" = "1.0.0"),
                          list(request = "getFeature",
                                layer = "tilastointialueet:kunta4500k_2017")))
```



# Index

## \* datasets

- grid\_ahvenanmaa, [7](#)
  - grid\_etela\_karjala, [8](#)
  - grid\_etela\_pohjanmaa, [8](#)
  - grid\_etela\_savo, [9](#)
  - grid\_kainuu, [9](#)
  - grid\_kanta\_hame, [10](#)
  - grid\_keski\_pohjanmaa, [10](#)
  - grid\_keski\_suomi, [11](#)
  - grid\_kymenlaakso, [11](#)
  - grid\_lappi, [12](#)
  - grid\_maakunta, [12](#)
  - grid\_paijat\_hame, [13](#)
  - grid\_pirkanmaa, [13](#)
  - grid\_pohjanmaa, [14](#)
  - grid\_pohjois\_karjala, [14](#)
  - grid\_pohjois\_pohjanmaa, [15](#)
  - grid\_pohjois\_savo, [15](#)
  - grid\_sairaanhoitop, [16](#)
  - grid\_satakunta, [16](#)
  - grid\_uusimaa, [17](#)
  - grid\_varsinais\_suomi, [17](#)
  - municipality\_central\_localities, [18](#)
  - municipality\_key, [19](#)
  - municipality\_key\_2013, [21](#)
  - municipality\_key\_2014, [23](#)
  - municipality\_key\_2015, [24](#)
  - municipality\_key\_2016, [26](#)
  - municipality\_key\_2017, [27](#)
  - municipality\_key\_2018, [29](#)
  - municipality\_key\_2019, [31](#)
  - municipality\_key\_2020, [34](#)
  - municipality\_key\_2021, [36](#)
- [check\\_api\\_access](#), [3](#)
- [convert\\_municipality\\_key\\_codes](#), [3](#)
- [get\\_municipalities](#), [4](#)
- [get\\_population\\_grid](#), [5](#)
- [get\\_statistical\\_grid](#), [6](#)
- [get\\_zipcodes](#), [6](#)
- grid\_ahvenanmaa, [7](#)
- grid\_etela\_karjala, [8](#)
- grid\_etela\_pohjanmaa, [8](#)
- grid\_etela\_savo, [9](#)
- grid\_kainuu, [9](#)
- grid\_kanta\_hame, [10](#)
- grid\_keski\_pohjanmaa, [10](#)
- grid\_keski\_suomi, [11](#)
- grid\_kymenlaakso, [11](#)
- grid\_lappi, [12](#)
- grid\_maakunta, [12](#)
- grid\_paijat\_hame, [13](#)
- grid\_pirkanmaa, [13](#)
- grid\_pohjanmaa, [14](#)
- grid\_pohjois\_karjala, [14](#)
- grid\_pohjois\_pohjanmaa, [15](#)
- grid\_pohjois\_savo, [15](#)
- grid\_sairaanhoitop, [16](#)
- grid\_satakunta, [16](#)
- grid\_uusimaa, [17](#)
- grid\_varsinais\_suomi, [17](#)
- [httpcache::cacheOff\(\)](#), [40](#)
- [httpcache::clearCache\(\)](#), [40](#)
- [municipality\\_central\\_localities](#), [18](#)
- municipality\_key, [19](#)
- municipality\_key\_2013, [21](#)
- municipality\_key\_2014, [23](#)
- municipality\_key\_2015, [24](#)
- municipality\_key\_2016, [26](#)
- municipality\_key\_2017, [27](#)
- municipality\_key\_2018, [29](#)
- municipality\_key\_2019, [31](#)
- municipality\_key\_2020, [34](#)
- municipality\_key\_2021, [36](#)
- [to\\_sf](#), [39](#)

wfs\_api, [39](#)