

Package ‘geofi’

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Type Package

Title Access Finnish Geospatial Data

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Description Designed to simplify geospatial data access from the Statistics Finland Web Feature Service API <<http://geo.stat.fi/geoserver/wfs>>, the geofi package offers researchers and analysts a set of tools to obtain and harmonize administrative spatial data for a wide range of applications, from urban planning to environmental research. The package contains annually updated time series of municipality key datasets that can be used for data aggregation and language translations.

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URL <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, httptest (>= 4.0.0), janitor, knitr, leaflet, patchwork, pxweb, readr, rmarkdown, sotkanet, testthat, tidyr

VignetteBuilder knitr

Encoding UTF-8

LazyData true

RoxygenNote 7.2.3

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

X-schema.org-keywords ropengov

NeedsCompilation no

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<code>check_api_access</code>	<i>Check access to http://geo.stat.fi/geoserver/wfs</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>

Examples

```
## Not run:
  check_api_access()

## End(Not run)
```

<code>convert_municipality_key_codes</code>	<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, Pyry Kantanen

Examples

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

## End(Not run)
```

get_municipalities *Get Finnish municipality (multi)polygons for different years and/or scales.*

Description

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

Usage

```
get_municipalities(year = 2023, 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, 2021, 2022 and 2023.

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, Joonas Lehtomäki joona.lehtomaki@iki.fi

Examples

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

get_municipality_pop *Get Number of population by Finnish municipality (multi)polygons for different years.*

Description

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

Usage

```
get_municipality_pop(year = 2021, codes_as_character = FALSE)
```

Arguments

year A numeric for year of the administrative borders. Available are 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 and 2021.

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.

Details

The number of population on the last day of the reference year combined with municipality borders from year after. Calling the function with year = 2019 returns population data from 2019-12-31 with spatial data from 2020.

The statistical variables in the data are: total population (vaesto), share of the total population (vaesto_p), number of men (miehet), men's share of the population in an area (miehet_p) and women (naiset), women's share (naiset_p), those aged under 15: number (ika_0_14), share (ika_0_14p), those aged 15 to 64: number (ika_15_64), share (ika_15_64p), and aged 65 or over: number (ika_65_), share (ika_65_p).

Value

sf object

Author(s)

Markus Kainu markus.kainu@kela.fi, Joona Lehtomäki joona.lehtomaki@iki.fi

Examples

```
## Not run:  
f <- get_municipality_pop(year=2020)  
plot(f)  
  
## End(Not run)
```

get_population_grid	<i>Get Finnish Population grid in two different resolutions for years 2010-2020 Thin wrapper around Finnish population grid data provided by Statistics Finland.</i>
---------------------	---

Description

Get Finnish Population grid in two different resolutions for years 2010-2020 Thin wrapper around Finnish population grid data provided by [Statistics Finland](#).

Usage

```
get_population_grid(year = 2021, resolution = 5)
```

Arguments

year	A numeric for year of the population grid. Years available 2005 and 2010-2021.
resolution	1 (1km x 1km) or 5 (5km x 5km)

Details

More information about the dataset from [Paikkatietohakemisto](#)

Value

sf object

Author(s)

Markus Kainu markus.kainu@kela.fi, Joona Lehtomäki 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, Joona Lehtomäki 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 = 2023, extend_to_sea_areas = FALSE)
```

Arguments

`year` A numeric for year of the zipcodes. Years available 2015-2023.
`extend_to_sea_areas` A logical. Extend the data to show also the sea areas.

Value

sf object

Author(s)

Markus Kainu markus.kainu@kela.fi, Joonas Lehtomäki joona.lehtomaki@iki.fi

Examples

```
## Not run:  
f <- get_zipcodes(year=2022)  
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 *custom geofacet grid for Etelä-Savo*

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_hyvinvointialue *custom geofacet grid for Wellbeing services counties*

Description

Grid table to be used with ggplot2 and geofacet

Usage

grid_hyvinvointialue

Format

A data frame with 23 rows and 4 variables:

name Wellbeing services county name (hyvinvointialue) in Finnish

code Wellbeing services counties 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	<i>custom geofacet grid for Kanta-Häme region</i>
-----------------	---

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 *custom geofacet grid for Keski-Suomi region as in 2020*

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	<i>custom geofacet grid for Pohjanmaa region</i>
----------------	--

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	<i>custom geofacet grid for Satakunta region</i>
----------------	--

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 *custom geofacet grid for Varsinais-Suomi region*

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 (April 2023) 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 21 variables:

mtk_id mtk_id

sijaintitarkkuus location precision

aineistolahde data source

alkupvm start date

teksti Municipality name

suunta direction

dx dx
dy dy
kohderyhmä kohderyhmä
kohdeluokka kohdeluokka
ladontatunnus ladontatunnus
kirjasintyyppikoodi kirjasintyyppikoodi
kirjasinkoko kirjasinkoko
kirjasinvarikoodi kirjasinvarikoodi
kirjasinkallistuskulma kirjasinkallistuskulma
kirjasinvalyskerroin kirjasinvalyskerroin
kuntatunnus municipality code
municipality_code municipality code
municipality_name_fi municipality name in Finnish
municipality_name_sv municipality name in Swedish
municipality_name_en municipality name in English
geometry geometry

municipality_key *Aggregated municipality key table for years 2013-2023*

Description

Table for aggregating municipality level data to various regional groupings

Usage

municipality_key

Format

A data frame with 3440 rows and 77 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
tyossakayntial_name_sv Työssäkäyntialue name in Swedish
tyossakayntial_name_en Työssäkäyntialue name in English
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 Finnish

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 Swedish

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)

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_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 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)
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)

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)
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 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)
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 Swedish
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 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_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 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_2022 *Municipality key table for 2022*

Description

Table for aggregating municipality level data to various regional groupings

Usage

municipality_key_2022

Format

A data frame with 309 rows and 73 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)
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_2023 *Municipality key table for 2023*

Description

Table for aggregating municipality level data to various regional groupings

Usage

municipality_key_2023

Format

A data frame with 309 rows and 69 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)
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)
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
tyossakayntial_code Työssäkäyntialue code
tyossakayntial_name_fi Työssäkäyntialue name in Finnish
tyossakayntial_name_sv Työssäkäyntialue name in Swedish

tyossakayntialue_name_en Työssäkayntialue name in English
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

Transform a wfs_api object into a sf object.

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

wfs_api

WFS API

Description

Requests to various WFS API.

Usage

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

Arguments

<code>base_url</code>	string Api base url
<code>queries</code>	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 `httplib` meaning that requests are cached. If you want clear cache, use [httplib::clearCache\(\)](#). To turn the cache off completely, use [httplib::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

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")))
```

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