

# Package ‘helsinki’

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**Type** Package

**Title** R Tools for Helsinki Open Data

**Version** 0.9.29

**Date** 2017-02-18

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**Description** Tools for accessing various open data sources in the Helsinki region in Finland. Current data sources include the Real Estate Department (<<http://ptp.hel.fi/avoindata/>>), Service Map API (<<http://api.hel.fi/servicemap/v1/>>), Linked Events API (<<http://api.hel.fi/linkedevents/v0.1/>>), Helsinki Region Infoshare statistics API (<<https://dev.hel.fi/stats/>>).

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

**Depends** R (>= 3.1.0), maptools, RCurl

**Suggests** knitr

**Imports** rjson, sp

**URL** <https://github.com/rOpenGov/helsinki>

**BugReports** <https://github.com/ropengov/helsinki/issues>

**VignetteBuilder** knitr

**LazyLoad** yes

**NeedsCompilation** no

**Repository** CRAN

**RoxygenNote** 5.0.1

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helsinki-package	<i>Helsinki open data R tools</i>
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## Description

Brief summary of the helsinki package

## Details

Package:	helsinki
Type:	Package
Version:	See sessionInfo() or DESCRIPTION file
Date:	2014
License:	FreeBSD
LazyLoad:	yes

Tools for accessing various open data sources in the Helsinki region in Finland.

## Author(s)

Juuso Parkkinen, Leo Lahti and Joonas Lehtomaki <louhos@googlegroups.com>

## References

See citation("helsinki") <https://github.com/rOpenGov/helsinki>

## Examples

```
# library(helsinki)
```

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aluejakokartat	<i>Helsinki region district maps (aluejakokartat)</i>
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## Description

Helsinki region district maps (aluejakokartat, aanestysalueet) from Helsinki Real Estate Department (Helsingin kaupungin kiinteistovirasto, HKK) through the HKK website <http://ptp.hel.fi/avoindata/index.html>. The data are retrieved and preprocessed using the gisfin package, see details in <https://github.com/louhos/takomo/helsinki/>.

**Author(s)**

Juuso Parkkinen <louhos@googlegroups.com>

**References**

See citation("helsinki")

**Examples**

```
data(aluejakokartat)
```

---

get\_hri\_stats

*Helsinki Region Infoshare statistics API*

---

**Description**

Retrieves data from the Helsinki Region Infoshare (HRI) statistics API: <http://dev.hel.fi/stats/>. Currently provides access to the 'aluesarja't data: <http://www.aluesarjat.fi/>.

**Usage**

```
get_hri_stats(query = "", verbose = TRUE)
```

**Arguments**

query	A string, specifying the dataset to query
verbose	logical. Should R report extra information on progress?

**Details**

Current implementation is very simple. You can either get the list of resources with query="", or query for a specific resources and retrieve it in a three-dimensional array form.

**Value**

results A three-dimensional array of results.

**Author(s)**

Juuso Parkkinen <louhos@googlegroups.com>

**References**

See citation("helsinki")

**Examples**

```
stats.array <- get_hri_stats("aluesarjat_a03s_hki_vakiluku_aidinkieli")
```

---

`get_hsy`*Retrieve data from Helsinki Region Environmental Services*

---

### Description

Retrieves data from Helsinki Region Environmental Services Authority (Helsingin seudun ympäristöpalvelu HSY) <http://www.hsy.fi/seututieto/kaupunki/paikkatiedot/Sivut/Avoindata.aspx> For data description (in Finnish) see: [http://www.hsy.fi/seututieto/Documents/Paikkatiedot/Tietokuvaukset\\_kaikki.pdf](http://www.hsy.fi/seututieto/Documents/Paikkatiedot/Tietokuvaukset_kaikki.pdf). The data copyright (C) HSY 2011.

### Usage

```
get_hsy(which.data = NULL, which.year = 2013, data.dir = tempdir(),
        verbose = TRUE)
```

### Arguments

<code>which.data</code>	A string. Specify the name of the retrieved HSY data set. Options: <code>Vaestotietoruudukko</code> ; <code>Rakennustietoruudukko</code> ; <code>SeutuRAMAVA_kosa</code> ; <code>SeutuRAMAVA_tila</code> . These are documented in HSY data description document (see above).
<code>which.year</code>	An integer. Specify the year for the data to be retrieved.
<code>data.dir</code>	A string. Specify a temporary folder for storing downloaded data.
<code>verbose</code>	logical. Should R report extra information on progress?

### Value

Shape object (from `SpatialPolygonsDataFrame` class)

### Author(s)

Juuso Parkkinen and Leo Lahti <[louhos@googlegroups.com](mailto:louhos@googlegroups.com)>

### References

See `citation("helsinki")`

### Examples

```
vaesto.sp <- get_hsy("Vaestotietoruudukko")
```

---

get\_linkedevents      *Access Helsinki Linked Events API*

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**Description**

Access the new Helsinki Linked Events API: <http://api.hel.fi/linkedevents/v0.1/>. The API contains data from the Helsinki City Tourist & Convention Bureau, the City of Helsinki Cultural Office and the Helmet metropolitan area public libraries. For more API documentation and license information see the API link.

**Usage**

```
get_linkedevents(query, ...)
```

**Arguments**

query	The API query as a string, one of "category", "event", "language", or "place". For details, see <a href="http://api.hel.fi/linkedevents/v0.1/">http://api.hel.fi/linkedevents/v0.1/</a> .
...	Additional parameters to the API (optional). For details, see <a href="http://api.hel.fi/linkedevents/v0.1/">http://api.hel.fi/linkedevents/v0.1/</a> .

**Value**

List of results

**Author(s)**

Juuso Parkkinen <[louhos@googlegroups.com](mailto:louhos@googlegroups.com)>

**Examples**

```
events <- get_linkedevents(query="event")
```

---

get\_servicemap      *Access Helsinki region Service Map API*

---

**Description**

Access the new Helsinki region Service Map (Paakaupunkiseudun Palvelukartta) <http://dev.hel.fi/servicemap/> data through the API: <http://api.hel.fi/servicemap/v1/>. For more API documentation and license information see the API link.

**Usage**

```
get_servicemap(query, ...)
```

**Arguments**

query           The API query as a string, for example "search", "service", or "unit". For full list of available options and details, see <http://api.hel.fi/servicemap/v1/>.

...             Additional parameters to the API (optional). For details, see <http://api.hel.fi/servicemap/v1/>.

**Value**

List of results

**Author(s)**

Juuso Parkkinen <[louhos@googlegroups.com](mailto:louhos@googlegroups.com)>

**Examples**

```
search.puisto <- get_servicemap(query="search", q="puisto")
```

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