

Package ‘healthatlas’

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Title Explore and Import 'Metopio' Health Atlas Data and Spatial Layers

Version 0.2.1

Description Allows for painless use of the 'Metopio' health atlas APIs <<https://metopio.com/health-atlas>> to explore and import data. 'Metopio' health atlases store open public health data. See what topics (or indicators) are available among specific populations, periods, and geographic layers. Download relevant data along with geographic boundaries or point datasets. Spatial datasets are returned as 'sf' objects.

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Encoding UTF-8

RoxygenNote 7.3.2

Depends R (>= 4.1.0)

Imports curl, httr2, tibble, sf, chk

Suggests dplyr, ggplot2, knitr, purrr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

URL <https://ryanzomorrodi.github.io/healthatlas/>,
<https://github.com/ryanzomorrodi/healthatlas>

Config/testthat/edition 3

BugReports <https://github.com/ryanzomorrodi/healthatlas/issues>

NeedsCompilation no

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ha_coverage	<i>List Topic Coverage</i>
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Description

List all combinations of population, periods, and geographic layers available for a given topic. To search for individual topics use `ha_topics()`.

Usage

```
ha_coverage(topic_key, layer_key = NULL, keys_only = FALSE, progress = TRUE)
```

Arguments

topic_key	Unique ID specifying a topic.
layer_key	Character string or vector of Unique IDs for geographic layers.
keys_only	Return only keys?
progress	Display a progress bar?

Value

Topic coverage tibble.

Examples

```
ha_set("chicagohealthatlas.org")

ha_coverage("POP", progress = FALSE)
```

`ha_data`*Obtain Data*

Description

Obtain data for one or more topics within specified populations for specified time periods and geographic scale.

All combinations of topic, population, period, and layer will be returned. Warnings will be generated for any invalid combinations.

Usage

```
ha_data(  
  topic_key,  
  population_key,  
  period_key,  
  layer_key,  
  geometry = FALSE,  
  progress = TRUE  
)
```

Arguments

<code>topic_key</code>	Character string or vector of Unique IDs(s) specifying topic(s).
<code>population_key</code>	Character string or vector of Unique ID(s) for population stratification(s).
<code>period_key</code>	Character string or vector of Unique ID(s) for time period(s).
<code>layer_key</code>	Character string specifying an Unique ID for a geographic layer.
<code>geometry</code>	Attach geometry to output?
<code>progress</code>	Display a progress bar?

Value

Data tibble containing value and standard error for each topic measure.

Examples

```
ha_set("chicagohealthatlas.org")  
  
ha_data("POP", "H", "2014-2018", "zip")
```

ha_get	<i>Get Health Atlas Portal</i>
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Description

Get health atlas currently connected to.

Usage

```
ha_get()
```

Value

Current value of ha_URL environment variable.

Examples

```
ha_set("chicagohealthatlas.org")
```

```
ha_get()
```

ha_layer	<i>Obtain Geographic Layer</i>
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Description

Import geographic layer as a sf object.

Usage

```
ha_layer(layer_key, progress = TRUE)
```

Arguments

layer_key	Unique ID for a geographic layer.
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progress	Display a progress bar?
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Value

sf geographic layer.

Examples

```
ha_set("chicagohealthatlas.org")
```

```
ha_layer("zip", progress = FALSE)
```

ha_layers	<i>List Geographic Layers</i>
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Description

List all geographic layers available.

Usage

```
ha_layers()
```

Value

Layer information tibble.

Examples

```
ha_set("chicagohealthatlas.org")  
  
ha_layers()
```

ha_point_layer	<i>Obtain Point Layer</i>
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Description

Import point layer as a sf object.

Usage

```
ha_point_layer(point_layer_uuid)
```

Arguments

```
point_layer_uuid  
                Unique ID for a point layer.
```

Value

sf point layer.

Examples

```
ha_set("chicagohealthatlas.org")  
  
ha_point_layer("67f58fa0-0dfa-4ee9-8600-c1ab4a093dc6")
```

ha_point_layers	<i>List Point Layers</i>
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Description

List all point layers available.

Usage

```
ha_point_layers()
```

Value

Point layer information tibble.

Examples

```
ha_set("chicagohealthatlas.org")
```

```
ha_point_layers()
```

ha_set	<i>Set Health Atlas Portal</i>
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Description

Set health atlas to connect to.

Usage

```
ha_set(ha_URL)
```

Arguments

ha_URL URL of the health atlas home page.

Value

No return value. Sets ha_URL environment variable.

Examples

```
ha_set("chicagohealthatlas.org")
```

ha_subcategories	<i>List Topic Subcategories</i>
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Description

List the topic subcategories, which can be used to filter topics within `ha_topics()`.

Usage

```
ha_subcategories()
```

Value

Topic subcategory tibble.

Examples

```
ha_set("chicagohealthatlas.org")  
ha_subcategories()
```

ha_topics	<i>List Topics</i>
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Description

List all topics available with descriptions and units.

Usage

```
ha_topics(subcategory_key = NULL, progress = TRUE)
```

Arguments

subcategory_key	
progress	Unique id for a topic subcategory Display a progress bar?

Value

Topics information tibble.

Examples

```
ha_set("chicagohealthatlas.org")  
ha_topics("education", progress = FALSE)
```

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