

# Package ‘healthatlas’

September 13, 2024

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

**Version** 0.1.0

**Description** Allows for painless use of the 'Metopio' health atlas APIs <<https://metopio.com/how-it-works/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

**Imports** curl, dplyr, httr2, purrr, sf, tibble, tidy

**Suggests** ggplot2, knitr, rmarkdown, testthat (>= 3.0.0)

**VignetteBuilder** knitr

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

**Config/testthat/edition** 3

**BugReports** <https://github.com/ryanzomorodi/healthatlas/issues>

**NeedsCompilation** no

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**Repository** CRAN

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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)
```

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`ha_data`*Obtain Data*

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**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,  
  wide = FALSE,  
  progress = TRUE  
)
```

**Arguments**

<code>topic_key</code>	Character string or vector of Unique IDs specifying topics.
<code>population_key</code>	Character string or vector of Unique IDs for population stratifications.
<code>period_key</code>	Character string or vector of Unique IDs for time periods.
<code>layer_key</code>	Character string or vector of Unique IDs for geographic layers.
<code>geometry</code>	Attach geometry to output?
<code>wide</code>	Pivot wider so that each row contains the values of all topics within a population at a specified time period and a geographic area?
<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")
```

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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()
```

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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)
```

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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()
```

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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")
```

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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()
```

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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")
```

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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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