Package 'healthatlas'

December 18, 2024

Title Explore and Import 'Metopio' Health Atlas Data and Spatial LayersVersion 0.1.1

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, 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

Author Ryan Zomorrodi [aut, cre, cph]

(<https://orcid.org/0009-0003-6417-5985>)

Maintainer Ryan Zomorrodi <rzomor2@uic.edu>

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ha_coverage

List Topic Coverage

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.

```
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,
  progress = TRUE
)
```

Arguments

```
topic_key Character string or vector of Unique IDs(s) specifying topic(s).

population_key Character string or vector of Unique ID(s) for population stratification(s).

period_key Character string or vector of Unique ID(s) for time period(s).

layer_key Character string specifying an Unique ID for a geographic layer.

geometry Attach geometry to output?

progress Display a progress bar?
```

Value

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

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

ha_layer

ha_get

Get Health Atlas Portal

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

Obtain Geographic Layer

Description

Import geographic layer as a sf object.

Usage

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

Arguments

progress

layer_key Unique ID for a geographic layer.

Display a progress bar?

Value

sf geographic layer.

```
ha_set("chicagohealthatlas.org")
ha_layer("zip", progress = FALSE)
```

ha_layers 5

ha_layers

List Geographic Layers

Description

List all geographic layers available.

Usage

```
ha_layers()
```

Value

Layer information tibble.

Examples

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

ha_point_layer

Obtain Point Layer

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.

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

ha_set

ha_point_layers

List Point Layers

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

Set Health Atlas Portal

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.

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

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ha_subcategories

List Topic Subcategories

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

List Topics

Description

List all topics available with descriptions and units.

Usage

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

Arguments

```
subcategory_key
```

Unique id for a topic subcategory

progress

Display a progress bar?

Value

Topics information tibble.

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

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