

Package ‘dashboardapi’

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Title Access Japan's Statistics Dashboard API

Version 0.1.0

Description An unofficial, tidy, rate-conscious interface to the Statistics Dashboard Web API provided by the Statistics Bureau of Japan. Search indicators, regions, terms, social events, and statistical surveys, then retrieve observations as normalized long or wide data frames. The API requires no registration or API key.

URL <https://github.com/kenjimyzk/dashboardapi>

BugReports <https://github.com/kenjimyzk/dashboardapi/issues>

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dashboard_api_credit	<i>Return Statistics Dashboard attribution and API credit</i>
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Description

The Statistics Dashboard asks users of its content to cite the source. When publishing edited content, identify the editing entity as well. Publishers of services using the API must also show a specified credit. The terms can change, so verify the linked official page before publication.

Usage

```
dashboard_api_credit(lang = c("en", "jp"))
```

Arguments

lang Credit language, "en" or "jp".

Value

A named list containing source (the required source citation), processed (a template for edited content), credit (the required API service credit), and official URLs.

Examples

```
dashboard_api_credit("en")
dashboard_api_credit("jp")$credit
```

dashboard_codes	<i>Return commonly used Statistics Dashboard API codes</i>
-----------------	--

Description

The API's full category, survey, and region code systems are maintained by the Statistics Bureau. This helper returns the small enumerations used directly by package arguments.

Usage

```
dashboard_codes(
  type = c("cycle", "regional_rank", "seasonal", "provisional", "social_event_level"),
  lang = c("en", "jp")
)
```

Arguments

type	One of "cycle", "regional_rank", "seasonal", "provisional", or "social_event_level".
lang	Label language, "en" or "jp".

Value

A tibble containing code, name, and type.

Examples

```
dashboard_codes("cycle")
dashboard_codes("regional_rank", lang = "jp")
```

dashboard_data	<i>Retrieve Statistics Dashboard observations</i>
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Description

dashboard_data() retrieves one or more indicators and returns one indicator-region-time observation per row. The API permits five indicators and 50 regions per request. Longer vectors are split automatically, with at least one second between requests.

Usage

```
dashboard_data(
  indicator_code,
  region_code = NULL,
  parent_region_code = NULL,
  region_level = NULL,
  time = NULL,
  time_from = NULL,
  time_to = NULL,
  cycle = NULL,
  regional_rank = NULL,
  seasonal = NULL,
  stat_name = NULL,
  value_condition = NULL,
  wide = FALSE,
  lang = dash_default("lang", "en"),
  wait = dash_default("wait", 1),
  timeout = dash_default("timeout", 30),
  retries = dash_default("retries", 3)
)
```

Arguments

<code>indicator_code</code>	Character vector of 19-digit indicator codes. Names become aliases. Requests are automatically batched in groups of five.
<code>region_code</code>	Optional vector of five-digit Japanese region codes or three-letter ISO country codes. Requests are automatically batched in groups of 50.
<code>parent_region_code</code>	Optional five-digit parent-region code.
<code>region_level</code>	Optional official region-level code.
<code>time, time_from, time_to</code>	Optional API time codes. Use "20240100" for January 2024, "20241Q00" for 2024 Q1, "2024CY00" for calendar year 2024, or "2024FY00" for fiscal year 2024.
<code>cycle</code>	Data cycle: "month", "quarter", "year", or "fiscal_year"; API codes 1–4 are also accepted.
<code>regional_rank</code>	One of "country", "japan", "prefecture", or "municipality"; API codes 1–4 are also accepted.
<code>seasonal</code>	"original" or "seasonally_adjusted"; API codes 1 and 2 are also accepted.
<code>stat_name</code>	Optional partial match for a statistical survey name.
<code>value_condition</code>	Optional strict numeric filter such as ">100" or "<0".
<code>wide</code>	If FALSE (default), return normalized long data. If TRUE, put each indicator or alias in its own column.
<code>lang</code>	Response language, "en" or "jp".
<code>wait</code>	Requested seconds between automatically batched requests. Values below one are treated as one when another request is required.
<code>timeout</code>	Request timeout in seconds.
<code>retries</code>	Number of retries for transient failures.

Details

Named `indicator_code` vectors create aliases in the indicator column and in wide output, following the style of `WDI::WDI()`.

Value

A tibble. Long output retains raw codes and labels, an R Date, numeric value, original `value_raw`, and annotations.

Examples

```
## Not run:
population <- dashboard_data(
  indicator_code = c(population = "0201010000000010000"),
  region_code = "00000",
  time_from = "2020CY00",
```

```
time_to = "2024CY00",
cycle = "year",
regional_rank = "japan",
seasonal = "original"
)

## End(Not run)
```

dashboard_events	<i>Search and retrieve social-event metadata</i>
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Description

Search and retrieve social-event metadata

Usage

```
dashboard_events(
  time = NULL,
  time_from = NULL,
  time_to = NULL,
  level = NULL,
  category = NULL,
  modified_from = NULL,
  modified_to = NULL,
  lang = dash_default("lang", "en"),
  timeout = dash_default("timeout", 30),
  retries = dash_default("retries", 3)
)
```

Arguments

- time, time_from, time_to Optional eight-character API time codes, such as "20240100", "20241Q00", "2024CY00", or "2024FY00".
- level Event importance: "low", "medium", or "high"; API codes 1–3 are also accepted.
- category Optional Statistics Dashboard category code.
- modified_from, modified_to Optional metadata update dates in YYYYMMDD format.
- lang Response language, "en" or "jp".
- timeout Request timeout in seconds.
- retries Number of retries for transient failures.

Value

A tibble with one row per event-category association.

Examples

```
## Not run:
dashboard_events(category = "0201", level = "high")

## End(Not run)
```

dashboard_indicators	<i>Search and retrieve indicator metadata</i>
----------------------	---

Description

This is the discovery endpoint for Statistics Dashboard series. The result has one row per indicator element: an indicator split by data cycle, regional rank, and original/seasonally adjusted status.

Usage

```
dashboard_indicators(
  query = NULL,
  indicator_code = NULL,
  category = NULL,
  time = NULL,
  time_from = NULL,
  time_to = NULL,
  cycle = NULL,
  regional_rank = NULL,
  seasonal = NULL,
  stat_code = NULL,
  stat_name = NULL,
  modified_from = NULL,
  modified_to = NULL,
  lang = dash_default("lang", "en"),
  timeout = dash_default("timeout", 30),
  retries = dash_default("retries", 3)
)
```

Arguments

query	Optional partial match for the indicator name.
indicator_code	Optional vector of 19-digit indicator codes. Up to 50 codes can be sent in one metadata request.
category	Optional Statistics Dashboard category code.
time, time_from, time_to	Optional eight-character API time codes, such as "20240100", "20241Q00", "2024CY00", or "2024FY00".
cycle	Data cycle: "month", "quarter", "year", or "fiscal_year"; API codes 1–4 are also accepted.

regional_rank	One of "country", "japan", "prefecture", or "municipality"; API codes 1–4 are also accepted.
seasonal	"original" or "seasonally_adjusted"; API codes 1 and 2 are also accepted.
stat_code, stat_name	Optional statistical survey code or partial name.
modified_from, modified_to	Optional metadata update dates in YYYYMMDD format.
lang	Response language, "en" or "jp".
timeout	Request timeout in seconds.
retries	Number of retries for transient failures.

Value

A tibble with one row per indicator element.

Examples

```
## Not run:
dashboard_indicators(query = "Total population", lang = "en")
dashboard_indicators(
  category = "0201", cycle = "year", regional_rank = "prefecture"
)

## End(Not run)
```

dashboard_regions	<i>Search and retrieve region metadata</i>
-------------------	--

Description

Search and retrieve region metadata

Usage

```
dashboard_regions(
  query = NULL,
  region_code = NULL,
  parent_region_code = NULL,
  time = NULL,
  time_from = NULL,
  time_to = NULL,
  region_level = NULL,
  modified_from = NULL,
  modified_to = NULL,
  lang = dash_default("lang", "en"),
  timeout = dash_default("timeout", 30),
  retries = dash_default("retries", 3)
)
```

Arguments

query	Optional partial match for a region name.
region_code	Optional vector of up to 50 five-digit Japanese region codes or three-letter ISO country codes.
parent_region_code	Optional five-digit parent-region code. For example, "00000" returns Japan's prefectures.
time, time_from, time_to	Optional eight-character API time codes, such as "20240100", "20241Q00", "2024CY00", or "2024FY00".
region_level	Optional vector of official region-level codes.
modified_from, modified_to	Optional metadata update dates in YYYYMMDD format.
lang	Response language, "en" or "jp".
timeout	Request timeout in seconds.
retries	Number of retries for transient failures.

Value

A tibble of regions and their parent regions.

Examples

```
## Not run:
dashboard_regions(parent_region_code = "00000")
dashboard_regions(query = "Tokyo", lang = "en")

## End(Not run)
```

dashboard_search	<i>Search Statistics Dashboard indicators</i>
------------------	---

Description

A concise alias for `dashboard_indicators()` with a required search phrase.

Usage

```
dashboard_search(query, lang = dash_default("lang", "en"), ...)
```

Arguments

query	Partial indicator-name match.
lang	Response language, "en" or "jp".
...	Additional filters passed to <code>dashboard_indicators()</code> .

Value

A tibble with one row per matching indicator element.

Examples

```
## Not run:
dashboard_search("unemployment rate")
dashboard_search(intToUtf8(c(23436, 20840, 22833, 26989, 29575)), lang = "jp")

## End(Not run)
```

dashboard_surveys	<i>Search and retrieve statistical-survey metadata</i>
-------------------	--

Description

Search and retrieve statistical-survey metadata

Usage

```
dashboard_surveys(
  query = NULL,
  indicator_code = NULL,
  stat_code = NULL,
  modified_from = NULL,
  modified_to = NULL,
  lang = dash_default("lang", "en"),
  timeout = dash_default("timeout", 30),
  retries = dash_default("retries", 3)
)
```

Arguments

query	Optional partial match for a survey name.
indicator_code	Optional vector of up to 50 indicator codes.
stat_code	Optional statistical survey code.
modified_from, modified_to	Optional metadata update dates in YYYYMMDD format.
lang	Response language, "en" or "jp".
timeout	Request timeout in seconds.
retries	Number of retries for transient failures.

Value

A tibble of statistical surveys.

Examples

```
## Not run:
dashboard_surveys(query = "Population Census", lang = "en")

## End(Not run)
```

dashboard_terms	<i>Search and retrieve statistical term metadata</i>
-----------------	--

Description

Search and retrieve statistical term metadata

Usage

```
dashboard_terms(
  query = NULL,
  category = NULL,
  indicator_code = NULL,
  stat_code = NULL,
  modified_from = NULL,
  modified_to = NULL,
  lang = dash_default("lang", "en"),
  timeout = dash_default("timeout", 30),
  retries = dash_default("retries", 3)
)
```

Arguments

- query Optional partial match for a term name.
- category, indicator_code, stat_code
 Optional metadata filters.
- modified_from, modified_to
 Optional metadata update dates in YYYYMMDD format.
- lang Response language, "en" or "jp".
- timeout Request timeout in seconds.
- retries Number of retries for transient failures.

Value

A tibble of statistical terms and definitions.

Examples

```
## Not run:  
dashboard_terms(category = "0201", lang = "en")  
dashboard_terms(query = intToUtf8(c(20154, 21475)), lang = "jp")  
  
## End(Not run)
```

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