

# Package ‘onemapsgapi’

May 30, 2025

**Type** Package

**Title** R Wrapper for the 'OneMap.Sg API'

**Version** 2.0.0

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**Description** An R wrapper for the 'OneMap.Sg' API <<https://www.onemap.gov.sg/docs/>>. Functions help users query data from the API and return raw JSON data in ``tidy'' formats. Support is also available for users to retrieve data from multiple API calls and integrate results into single dataframes, without needing to clean and merge the data themselves. This package is best suited for users who would like to perform analyses with Singapore's spatial data without having to perform excessive data cleaning.

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**Encoding** UTF-8

**Depends** R (>= 4.1.0)

**Imports** rlang, httr2, dplyr, purrr, stringr, tidyr, future, furr

**RoxygenNote** 7.3.2

**Suggests** knitr, rmarkdown, sf, googlePolylines

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2025-05-30 09:20:02 UTC

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geocode_onemap	<i>Geocode a dataframe of keywords</i>
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## Description

This function is a wrapper for the [Search API](#). It allows for geocoding of data such as postal codes or address information. Users input a dataframe with a column to geocode (e.g. postal codes, address information). It returns a tibble with additional columns of coordinate data. Optionally, it can also return the output as an sf object.

## Usage

```
geocode_onemap(
  df,
  search_val,
  return_geom = FALSE,
  address_details = FALSE,
  return_spatial = FALSE,
  spatial_lnglat = TRUE,
  parallel = FALSE
)
```

## Arguments

df	Input tibble with column to be geocoded
search_val	Column name containing keyword(s) to be geocoded, e.g. column of postal codes
return_geom	Default = FALSE. Whether to return the coordinate information
address_details	Default = FALSE. Whether to return address information
return_spatial	Default = FALSE. Whether to return the output as an sf object. Please ensure
spatial_lnglat	Default = TRUE. If TRUE, the WGS84 coordinates will be used to create the sf tibble. If FALSE, the SVY21 coordinates will be used.
parallel	Default = FALSE. Whether to run API calls in parallel or sequentially (default).

**Value**

Please note only the top result matching the search will be returned. If no error occurs:

**SEARCH\_VAL** Detailed search name

**X** Longitude in SVY21. Returned only if return\_geom = TRUE

**Y** Latitude in SVY21. Returned only if return\_geom = TRUE

**LONGITUDE** Longitude in WGS84. Returned only if return\_geom = TRUE

**LATITUDE** Latitude in WGS84. Returned only if return\_geom = TRUE

**BLK\_NO** Block number

**ROAD\_NAME** Road Name

**BUILDING** Building Name

**ADDRESS** Address

**POSTAL** Postal Code

If an error occurs, an empty result will be returned for that row. A warning message will be printed with the search value, API error message and status code.

**Examples**

```
# sample dataframe. the last record does not return any API results.
df <- data.frame(
  places = c("a", "b", "c", "d"),
  address = c("raffles place mrt", "suntec city", "nus", "100353")
)

# Returns the original df with additional columns
## Not run: geocode_onemap(df, "address",
  return_geom=TRUE, address_details = TRUE, return_spatial=TRUE)

## End(Not run)
# If an error occurs for any of the rows, an empty row will be returned.
```

---

get\_planning\_areas      *Get Planning Areas (All)*

---

**Description**

This function is a wrapper for the [Planning Area Polygons API](#). It returns the data either in raw format or a combined sf object.

**Usage**

```
get_planning_areas(token, year = NULL, return_spatial = FALSE)
```

## Arguments

token	User's API token. This can be retrieved using <a href="#">get_token</a>
year	Optional, check <a href="#">documentation</a> for valid options. Invalid requests will be ignored by the API.
return_spatial	Optional, whether to return the result as a sf tibble instead of JSON object. Default value is FALSE

## Value

If the parameter read is not specified, the function returns a raw JSON object with planning names and geojson string vectors.

If return\_spatial = TRUE, the function returns a single "sf" tibble with 2 columns: "name" (name of planning area) and "geometry", which contains the simple features.

If an error occurs, the function throws an error with the API error message and status code.

## Note

If the user specifies return\_spatial = TRUE but does not have the sf package installed, the function will return the raw JSON and print a warning message.

## Examples

```
# returns raw JSON object
## Not run: get_planning_areas(token)
## Not run: get_planning_areas(token, 2008)

# returns dataframe of class "sf"
## Not run: get_planning_areas(token, return_spatial=TRUE)

# error: output is NULL, warning message shows status code
## Not run: get_planning_areas("invalid_token")
```

---

get\_planning\_names      *Get Planning Area Names*

---

## Description

This function is a wrapper for the [Names of Planning Area API](#). It returns the data as a tibble.

## Usage

```
get_planning_names(token, year = NULL)
```

**Arguments**

token	User's API token. This can be retrieved using <a href="#">get_token</a>
year	Optional, check <a href="#">documentation</a> for valid options. Invalid requests will be ignored by the API.

**Value**

A tibble with 2 columns:

<b>id</b>	Planning area id
<b>pln_area_n</b>	Planning area name

**Examples**

```
# returns tibble
## Not run: get_planning_names(token)
## Not run: get_planning_names(token, 2008)

# error: output is NULL, warning message shows status code
## Not run: get_planning_names("invalid_token")
```

---

get\_planning\_polygon *Get Planning Polygon for a Specific Point*

---

**Description**

This function is a wrapper for the [Planning Area Query API](#). It returns the spatial polygon data matching the specified location point, either in raw format or as an sf tibble.

**Usage**

```
get_planning_polygon(token, lat, lon, year = NULL, return_spatial = FALSE)
```

**Arguments**

token	User's API token. This can be retrieved using <a href="#">get_token</a>
lat	Latitude of location point
lon	Longitude of location point
year	Optional, check <a href="#">documentation</a> for valid options. Invalid requests will be ignored by the API.
return_spatial	Optional, defaults to FALSE. If TRUE, result will be returned as a sf tibble, otherwise the raw JSON object will be returned.

**Value**

If the parameter `read` is not specified, the function returns a raw JSON object a list containing the planning area name and a geojson string representing the polygon.

If `read = "sf"`, the function returns a 1 x 2 "sf" dataframe: "name" (name of planning area) and "geometry", which contains the simple feature.

If an error occurs, the function throws an error with the API error message and status code.

**Note**

If the user specifies a `return_spatial = TRUE` but does not have the `sf` package installed, the function will return the raw JSON and print a warning message.

**Examples**

```
# returns raw JSON object
## Not run: get_planning_polygon(token, lat = 1.429443081, lon = 103.835005)
## Not run: get_planning_polygon(token, lat = 1.429443081, lon = 103.835005, year = 2008)

# returns dataframe of class "sf"
## Not run: get_planning_polygon(token, lat = 1.429443081, lon = 103.835005, return_spatial = TRUE)

# error: output is NULL, warning message shows status code
## Not run: get_planning_polygon("invalid_token", lat = 1.429443081, lon = 103.835005)
## Not run: get_planning_polygon(token, "invalidlat", "invalidlon")
```

---

get\_pop\_queries

*Get Population Data (Multiple)*

---

**Description**

This function is a wrapper for the [Population Query API](#). It allows for querying of multiple Pop-queries data types for multiple towns and years.

**Usage**

```
get_pop_queries(
  token,
  data_types,
  planning_areas,
  years,
  gender = NULL,
  parallel = FALSE
)
```

**Arguments**

token	User's API token. This can be retrieved using <a href="#">get_token</a>
data_types	Type of data to be retrieved, should correspond to one of the API endpoints. E.g. to get economic status data, data_type = "getEconomicStatus". The API endpoints can be found on the documentation page.
planning_areas	Town for which the data should be retrieved.
years	Year for which the data should be retrieved.
gender	Optional, if specified only records for that gender will be returned. This parameter is only valid for the "getEconomicStatus", "getEthnicGroup", "getMaritalStatus" and "getPopulationAgeGroup" endpoints. If specified for other endpoints, the parameter will be dropped.
parallel	Default = FALSE. Whether to run API calls in parallel or sequentially (default). Enabling parallel iterations is highly recommended for when querying multiple data types/years/towns.

**Value**

A tibble with each row representing a town in a particular year for a particular gender, and columns with the variables returned by the API endpoint. If any API call returns no data, the values will be NA but the row will be returned. However, if all data\_types do not return data for that town and year, no row will be returned for it.

**Examples**

```
# output with no NA
## Not run: get_pop_queries(token, c("getReligion", "getLanguageLiterate"),
  c("Bedok", "Yishun"), "2010")
## End(Not run)
## Not run: get_pop_queries(token, c("getEconomicStatus", "getEthnicGroup"),
  "Yishun", "2010", "female")
## End(Not run)

## note behaviour if data types is a mix of those that accept gender params
### only total will have all records
## Not run: get_pop_queries(token, c("getEconomicStatus", "getOccupation", "getLanguageLiterate"),
  "Bedok", "2010")
## End(Not run)
### data type that does not accept gender params will be in gender = Total
## Not run: get_pop_queries(token, c("getEconomicStatus", "getOccupation", "getLanguageLiterate"),
  "Bedok", "2010", gender = "female")
## End(Not run)

# output with some town-year queries without record due to no data
# warning message will show data_type/town/year/gender for which an error occurred
## Not run: get_pop_queries(token, c("getEconomicStatus", "getOccupation"),
  "Bedok", c("2010", "2012"))
## End(Not run) # no records for 2012
```

---

get_pop_query	<i>Get Population Data</i>
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---

### Description

This function is a wrapper for the [Population Query API](#). It only allows for querying of one data type (i.e. one of the API endpoints) for a particular town and year.

### Usage

```
get_pop_query(token, data_type, planning_area, year, gender = NULL)
```

### Arguments

token	User's API token. This can be retrieved using <a href="#">get_token</a>
data_type	Type of data to be retrieved, should correspond to one of the API endpoints. E.g. to get economic status data, data_type = "getEconomicStatus". The API endpoints can be found on the documentation page.
planning_area	Town for which the data should be retrieved.
year	Year for which the data should be retrieved.
gender	Optional, valid values include male and female. If specified, only records for that gender will be returned. This parameter is only valid for the "getEconomicStatus", "getEthnicGroup", "getMaritalStatus" and "getPopulationAgeGroup" endpoints. If specified for other endpoints, the parameter will be dropped. If gender is not specified for valid endpoints, records for total, male and female will be returned.

### Value

A tibble with 1 row and values for all the corresponding variables returned by the API endpoint. If an error occurs, the function returns NULL and a warning message. This differs from the error handling of other functions in this package to prevent collective failure for get\_pop\_queries.

### Examples

```
# output with no NA
## Not run: get_pop_query(token, "getReligion", "Yishun", "2010")
## Not run: get_pop_query(token, "getModeOfTransportSchool", "Bishan", "2015", "female")

# if gender parameter is not specified, results for both genders and total will be returned
## Not run: get_pop_query(token, "getMaritalStatus", "Bedok", "2010")
## Not run: get_pop_query(token, "getEthnicGroup", "Bedok", "2010")
## Not run: get_pop_query(token, "getPopulationAgeGroup", "Bedok", "2010")

# output due to error
## Not run: get_pop_query(token, "getSpokenAtHome", "Bedok", "2043")
```

---

get_summ_route	<i>Get Summary Route Information</i>
----------------	--------------------------------------

---

### Description

This function is a wrapper for the [Route Service API](#). However, it only returns the total time, distance and optionally the route geometry between two points. If `route = "pt"`, only the best route is chosen (i.e. `n_itineraries = 1`).

### Usage

```
get_summ_route(
  token,
  start,
  end,
  route,
  date = format(Sys.Date(), "%m-%d-%Y"),
  time = format(Sys.time(), "%T"),
  mode = NULL,
  max_dist = NULL,
  route_geom = FALSE
)
```

### Arguments

token	User's API token. This can be retrieved using <a href="#">get_token</a>
start	Vector of c(lat, lon) coordinates for the route start point
end	Vector of c(lat, lon) coordinates for the route end point
route	Type of route. Accepted values are walk, drive, pt (public transport), or cycle
date	Default = current date. Date for which route is requested.
time	Default = current time. Time for which route is requested.
mode	Required if <code>route = "pt"</code> . Accepted values are TRANSIT, BUS or RAIL
max_dist	Optional if <code>route = "pt"</code> . Maximum walking distance
route_geom	Default = FALSE. Whether to return decoded route_geometry. Please ensure packages <b>googlePolylines</b> and <b>sf</b> are installed and note that this is a lossy conversion.

### Value

If no error occurs, a tibble of 1 x 2 with the variables:

**total\_time** The total time taken for this route

**total\_dist** The total distance travelled for this route

If an error occurs, the output will be NA, along with a warning message.

## Examples

```
# returns output tibble
## Not run: get_summ_route(token, c(1.320981, 103.844150), c(1.326762, 103.8559), "drive")
## Not run: get_summ_route(token, c(1.320981, 103.844150), c(1.326762, 103.8559), "pt",
  mode = "bus", max_dist = 300)
## End(Not run)

# returns output sf dataframe
## Not run: get_summ_route(token, c(1.320981, 103.844150), c(1.326762, 103.8559),
  "drive", route_geom = TRUE)
## End(Not run)
## Not run: get_summ_route(token, c(1.320981, 103.844150), c(1.326762, 103.8559), "pt",
  mode = "bus", max_dist = 300, route_geom = TRUE)
## End(Not run)
#'
# error: output is NULL, warning message shows status code
## Not run: get_summ_route("invalid_token", c(1.320981, 103.844150), c(1.326762, 103.8559), "drive")

# error: output is NULL, warning message shows error message from request
## Not run: get_summ_route(token, c(300, 300), c(400, 500), "cycle")
## Not run: get_summ_route(token, c(1.320981, 103.844150), c(1.326762, 103.8559), "fly")
```

---

get\_theme

*Get Theme Data from OneMap.Sg*

---

## Description

This function is a wrapper for the [Retrieve Theme API](#). It returns the data as cleaned tibbles.

## Usage

```
get_theme(
  token,
  theme,
  extents = NULL,
  return_info = FALSE,
  return_spatial = FALSE
)
```

## Arguments

token	User's API token. This can be retrieved using <a href="#">get_token</a>
theme	OneMap theme in its QUERYNAME format. A tibble of available themes can be retrieved using <a href="#">search_themes</a>
extents	Optional, Location Extents for search. This should be in the format "Lat1,%20Lng1,Lat2,%20Lng2". For more information, consult the <a href="#">API Documentation</a> .

- `return_info` Default = FALSE. If FALSE, function only returns a tibble for query results. If TRUE, function returns output as a list containing a tibble for query information and a tibble for query results.
- `return_spatial` Default = FALSE. If FALSE, function returns a tibble. If TRUE, function returns an sf tibble.

### Value

If no error occurs:

**query\_info** A 1 x 7 tibble containing information about the query. The variables are `FeatCount`, `Theme_Name`, `Category`, `Owner`, `DateTime.date`, `DateTime.timezone_type`, `DateTime.timezone`

**query\_result** Returned if `return_info = TRUE`. A tibble containing the data retrieved from the query. The columns and rows vary depending on theme and user specification, however all tibbles will contain the variables: `NAME`, `DESCRIPTION`, `ADDRESSPOSTALCODE`, `ADDRESSSTREETNAME`, `Lat`, `Lng`, `ICON_NAME`

If an error occurs, an error will be raised, along with the API's error message and status code. For non-error queries where 0 results are returned, the output will be `query_info`, along with a warning message.

### Examples

```
# returns a tibble of output
## Not run: get_theme(token, "hotels")
## Not run: get_theme(token, "monuments",
  extents = "1.291789,%20103.7796402,1.3290461,%20103.8726032")
## End(Not run)

# returns a sf dataframe
## Not run: get_theme(token, "hotels", return_spatial = TRUE)

# returns a list of status tibble and output tibble
## Not run: get_theme(token, "funeralparlours", return_info = TRUE)

# error: throws an error with error message and status code
## Not run: get_theme("invalid_token", "hotels")

# error: throws an error with error message and status code
## Not run: get_theme(token, "non-existent-theme")

# error: output is \code{query_info}, warning message query did not return any records
## Not run: get_theme(token, "ura_parking_lot", "1.291789,%20103.7796402,1.3290461,%20103.8726032")
```

**Description**

This function is a wrapper for the [Get Theme Info API](#). It returns a named character vector of Theme Name and Query Name.

**Usage**

```
get_theme_info(token, theme)
```

**Arguments**

token	User's API token. This can be retrieved using <a href="#">get_token</a>
theme	Query name of theme. Themes' query names can be retrieved using <a href="#">search_themes</a> .

**Value**

A named character vector of Theme Name and Query Name. If an error occurred, the function throws an error with the status code and API's error message.

**Examples**

```
# returns named character vector
## Not run: get_theme_info(token, "kindergartens")

# throws an error with error message and status code
## Not run: get_theme_info(token, "invalid_theme")

# throws an error with error message and status code
## Not run: get_theme_info("invalid_token", "blood_bank")
```

---

get_theme_status	<i>Check Theme Status</i>
------------------	---------------------------

---

**Description**

This function is a wrapper for the [Check Theme Status API](#). It returns a named logical indicating if the theme is updated at a specific date.

**Usage**

```
get_theme_status(
  token,
  theme,
  date = Sys.Date(),
  time = format(Sys.time(), format = "%T")
)
```

**Arguments**

token	User's API token. This can be retrieved using <a href="#">get_token</a>
theme	Query name of theme. Themes' query names can be retrieved using <a href="#">search_themes</a> .
date	Default = current date. Date to check for updates. Format YYYY-MM-DD
time	Default = current time. Time to check for updates. Format: HH:MM:SS:FFFZ

**Value**

A named logical indicating if the theme is updated at a specific date. If an error occurred, the function throws an error with the status code and API's error message.

**Examples**

```
# returns named logical
## Not run: get_theme_status(token, "kindergartens")
## Not run: get_theme_status(token, "hotels", "2020-01-01", "12:00:00")

# throws an error with error message and status code
## Not run: get_theme_status("invalid_token", "blood_bank")

# throws an error with error message and status code
## Not run: get_theme_status(token, "invalid_theme")
```

---

get\_token

*Extract API token from OneMap.Sg*


---

**Description**

This function is a wrapper for the [OneMap Authentication Service API](#). It allows users to generate a API token from OneMap.Sg. Using the API requires that users have a registered email address with Onemap.Sg. Users can register themselves using [OneMap.Sg's form](#).

**Usage**

```
get_token(email, password, hide_message = FALSE)
```

**Arguments**

email	User's registered email address.
password	User's password.
hide_message	Default = FALSE. Whether to hide message telling user when the token expires.

**Value**

API token, or NULL if an error occurs. If error occurs, a warning message will be printed with the error code.

**Examples**

```
## Not run: get_token("user@example.com", "password")
```

---

get\_travel

*Get Travel Time, Distance and Route*


---

**Description**

This function is a wrapper for the [Route Service API](#). It takes in a dataframe of start and end coordinates and returns the same dataframe with total time, total distance and optionally route geometry. The function also accepts multiple arguments for ‘route’ and ‘pt\_mode’, allowing users to compare various route options.

Note that if ‘as\_wide = TRUE’ is selected, any columns with identical names as the additional output columns will be overwritten. Also, if as\_wide = TRUE, only unique pairs of start and end points should be used. Regardless, using only unique pairs and joining data back is also a generally recommended workflow to reduce computation time.

**Usage**

```
get_travel(
  token,
  df,
  origin_lat,
  origin_lon,
  destination_lat,
  destination_lon,
  routes,
  date = format(Sys.Date(), "%m-%d-%Y"),
  time = format(Sys.time(), format = "%T"),
  pt_mode = "TRANSIT",
  pt_max_dist = NULL,
  as_wide = TRUE,
  parallel = FALSE,
  route_geom = FALSE
)
```

**Arguments**

token	User’s API token. This can be retrieved using <a href="#">get_token</a>
df	The input dataframe of start and end coordinates (the dataframe can have additional variables)
origin_lat	Name of the dataframe column with the start point latitude.
origin_lon	Name of the dataframe column with the start point longitude.
destination_lat	Name of the dataframe column with the end point latitude.

destination_lon	Name of the dataframe column with the end point longitude.
routes	Vector of the types of routes desired. Accepted values are walk, drive, pt (public transport), or cycle
date	Default = current date. Date for which route is requested.
time	Default = current time. Time for which route is requested.
pt_mode	Vector of public transport modes required. Default = route = c("transit"). Accepted values are transit, bus or rail
pt_max_dist	Optional if route = "pt". Maximum walking distance
as_wide	Default = TRUE. Whether to return output as a list as a long tibble with each row a route, or a wide tibble with the same number of rows as the input tibble.
parallel	Default = FALSE. Whether to run API calls in parallel or sequentially (default).
route_geom	Default = FALSE. Whether to return decoded route_geometry. Will only be returned if as_wide = FALSE. Please ensure packages googlePolylines and sf are installed and note that this is a lossy conversion.

### Value

Original dataframe with total time and total distance for each route type.

If an error occurs, the output row will be have NAs for the additional variables, along with a warning message.

### Examples

```
# sample dataframe
sample <- data.frame(start_lat = c(1.3746617, 1.3567797, 1.3361976, 500),
  start_lon = c(103.8366159, 103.9347695, 103.6957732, 501),
  end_lat = c(1.429443081, 1.380298287, 1.337586882, 601),
  end_lon = c(103.835005, 103.7452918, 103.6973215, 600),
  add_info = c("a", "b", "c", "d"))

# no error, wide format
## Not run: get_travel(token, sample[1:3, ],
  "start_lat", "start_lon", "end_lat", "end_lon",
  routes = c("cycle", "walk"))
## End(Not run)
## Not run: get_travel(token, sample[1:3, ],
  "start_lat", "start_lon", "end_lat", "end_lon",
  routes = c("drive", "pt"), pt_mode = c("bus", "transit"))
## End(Not run)

# no error, long format
## Not run: get_travel(token, sample[1:3, ],
  "start_lat", "start_lon", "end_lat", "end_lon",
  routes = c("walk", "pt"), pt_mode = c("bus", "transit"),
  as_wide = FALSE)
## End(Not run)
```

```

# no error, sf dataframe
## Not run: get_travel(token, sample[1:3, ],
  "start_lat", "start_lon", "end_lat", "end_lon",
  routes = c("drive", "pt"), pt_mode = c("bus", "transit"),
  as_wide = FALSE, route_geom = TRUE)
## End(Not run)

# with error
# warning message will show start/end/route/pt_mode for which an error occurred
## Not run: get_travel(token, sample,
  "start_lat", "start_lon", "end_lat", "end_lon",
  routes = c("cycle", "walk"))
## End(Not run)

```

---

search_geo	<i>Get Location Data from keyword</i>
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---

### Description

This function is a wrapper for the [Search API](#). It allows for geocoding of data such as postal codes or address information. This is an internal function for the `geocode_onemap` function.

### Usage

```
search_geo(search_val = NULL, return_geom = FALSE, address_details = FALSE)
```

### Arguments

<code>search_val</code>	Keyword(s) to be geocoded, e.g. column of postal codes
<code>return_geom</code>	Default = FALSE. Whether to return the coordinate information
<code>address_details</code>	Default = FALSE. Whether to return address information

---

search_themes	<i>Search for Themes available on OneMap.Sg</i>
---------------	---

---

### Description

This function is a wrapper for the [Get All Themes Info API](#). It allows users to get a tibble of all available themes, and their details, in the OneMap.Sg API. It also provides an additional functionality where users can subset their results using search terms.

### Usage

```
search_themes(token, ..., more_info = FALSE)
```

**Arguments**

token	User's API token. This can be retrieved using <a href="#">get_token</a>
...	Optional Search terms to subset results; results with any of search terms will be returned. Search terms are not case-sensitive.
more_info	Whether more information should be queried, default = FALSE. If FALSE, output will contain Theme Name, Query Name and Icon information. If TRUE, output will additionally contain Category and Theme Owner information.

**Value**

If no error occurs, a tibble with the following variables:

**THEMENAME** Name of the Theme

**QUERYNAME** Query name of the Theme

**ICON** Name of image file used as Icon in OneMap Web Map

**EXPIRY\_DATE** Expiry Date of the Theme

**PUBLISHED\_DATE** Published Date of the Theme

**CATEGORY** Returned only if more\_info = TRUE. Topic that Theme relates to, e.g. Health, Sports, Environment, etc.

**THEME\_OWNER** Returned only if more\_info = TRUE. Government Agency who Owns the Dataset

If an error occurs, the function throws an error with error message and status code.

**Examples**

```
# valid
## Not run: search_themes(token)
## Not run: search_themes(token, "hdb", "parks")
## Not run: search_themes(token, more_info = TRUE)

# error
## Not run: search_themes("my_invalid_token")
```

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