

Package ‘rgtmx’

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Type Package

Title Manage GTmetrix Tests in R

Version 0.1.4

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Description This is a library to access the current API of the web speed test service 'GTmetrix'.
It provides a convenient wrapper to start tests, get reports, and access all kinds of meta data.
For more information about using the API please visit <<https://gtmetrix.com/api/docs/2.0/>>.

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URL <https://github.com/RomanAbashin/rgtmx>

BugReports <https://github.com/RomanAbashin/rgtmx/issues>

Depends R (>= 3.1)

Imports httr, jsonlite

Encoding UTF-8

Suggests rmarkdown, knitr, testthat (>= 3.0.0), spelling

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check_input	<i>Check variable inputs</i>
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Description

Internal function to check input variables

Usage

```
check_input(  
  input,  
  input_type,  
  input_validation = NULL,  
  min_value = -Inf,  
  max_value = Inf,  
  max_length = 1L,  
  variable_name = NULL,  
  is_missing = NULL  
)
```

Arguments

- input .
- input_type .
- input_validation .
- min_value .
- max_value .
- max_length .
- variable_name .
- is_missing .

Value

nothing

get_account_status	<i>Get the status of your GTmetrix account</i>
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Description

Show available credits and other meta data for the supplied API key.

Usage

```
get_account_status(api_key)
```

Arguments

api_key	An active GTmetrix API key. (string)
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Value

A data.frame that contains meta data of a GTmetrix account.

Examples

```
## Not run: output_table <- get_account_status(  
  api_key = "API_KEY"  
)  
## End(Not run)
```

get_all_tests	<i>get_all_tests</i>
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Description

Get a table of tests, their report IDs and other meta data.

Usage

```
get_all_tests(api_key, page_size = 50, page_number = 1)
```

Arguments

api_key	An active GTmetrix API key. (string)
page_size	Page size (default 50, max 500)
page_number	Page (default 1)

Value

A data.frame object that contains test IDs and their meta data.

Examples

```
## Not run: output_table <- get_all_tests(api_key = "API_KEY")
```

get_browser_details	Show browser details
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Description

Get details for a specific browsers ID.

Usage

```
get_browser_details(browser, api_key)
```

Arguments

browser	Browser ID. (integer)
api_key	An active GTmetrix API key. (string)

Value

A data.frame object that contains available browsers and their meta data.

Examples

```
## Not run: output_table <- get_browser_details(  
  browser_id = 3, api_key = "API_KEY"  
)  
## End(Not run)
```

get_location_details	Show location details
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Description

Get details for a specific locations ID.

Usage

```
get_location_details(location, api_key)
```

Arguments

location	Location ID. (integer)
api_key	An active GTmetrix API key. (string)

Value

A data.frame object that contains available locations and their meta data.

Examples

```
## Not run: output_table <- get_location_details(  
  location_id = 3, api_key = "API_KEY"  
)  
## End(Not run)
```

get_report

Get status and meta data of a specific report

Description

Get status and meta data of a specific GTmetrix report.

Usage

```
get_report(report_id, api_key)
```

Arguments

report_id	ID of a GTmetrix report. (string)
api_key	An active GTmetrix API key. (string)

Value

A data.frame object that contains a GTmetrix report and its meta data.

Examples

```
## Not run: output_table <- get_report(  
  test_id = "REPORT_ID",  
  api_key = "API_KEY"  
)  
## End(Not run)
```

get_test	<i>Get status and meta data of a specific test</i>
----------	--

Description

Get the status and meta data of a specific GTmetrix test. Returns the associated report instead, if the report is already completed.

Usage

```
get_test(test_id, api_key, wait_for_completion = TRUE)
```

Arguments

test_id	ID of a GTmetrix test. (string)
api_key	An active GTmetrix API key. (string)
wait_for_completion	Whether the function should wait for the completion of the test. If TRUE (default), the report associated with the test ID will be requested in roughly 3 second intervals and returned, when successful. If FALSE, the meta data of the test will be returned. (TRUE, FALSE)

Value

A data.frame object that contains either the test meta data or the GTmetrix report (if it's already completed)

Examples

```
## Not run: output_table <- get_test(
  test_id = "TEST_ID",
  api_key = "API_KEY"
)

## End(Not run)
```

show_available_browsers	<i>Show available browsers</i>
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Description

Show available browsers for the supplied API key.

Usage

```
show_available_browsers(api_key)
```

Arguments

api_key An active GTmetrix API key. (string)

Value

A data.frame object that contains available browsers and their meta data.

Examples

```
## Not run: output_table <- show_available_browsers(api_key = "API_KEY")
```

```
show_available_locations
```

Show available locations

Description

Show available locations for the supplied API key.

Usage

```
show_available_locations(api_key)
```

Arguments

api_key An active GTmetrix API key. (string)

Value

A data.frame object that contains available locations and their meta data.

Examples

```
## Not run: output_table <- show_available_locations(api_key = "API_KEY")
```

start_test	<i>Start a GTmetrix test (and get the result)</i>
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Description

start_test starts a GTmetrix test and returns either the test itself (incl. meta data) or the associated report.

Usage

```
start_test(
  url,
  api_key,
  wait_for_completion = TRUE,
  location = 1,
  browser = 3,
  report = "lighthouse",
  retention = 1,
  httpauth_username = NULL,
  httpauth_password = NULL,
  adblock = 0,
  cookies = NULL,
  video = 0,
  stop_onload = 0,
  throttle = NULL,
  allow_url = NULL,
  block_url = NULL,
  dns = NULL,
  simulate_device = NULL,
  user_agent = NULL,
  browser_width = NULL,
  browser_height = NULL,
  browser_dppx = NULL,
  browser_rotate = NULL
)
```

Arguments

url	The URL of the page to test. (string)
api_key	An active GTmetrix API key (string)
wait_for_completion	Whether the function should wait for the completion of the test. If TRUE (default), the report associated with the test ID will be requested in roughly 3 second intervals and returned, when successful. If FALSE, the meta data of the test will be returned. (TRUE, FALSE)
location	Location ID. Default = "1"

browser	Location ID. Default = "3"
report	A string for the type of report. "lighthouse" (default) for 'Lighthouse', "legacy" for 'PageSpeed'/'YSlow', "lighthouse,legacy" for both, "none" for a metrics-only report.
retention	Choose how long (in months) the report will be retained and accessible. Valid values: 1 (default), 6, 12, 24.
httpauth_username	Username for the test page HTTP access authentication. (string)
httpauth_password	Password for the test page HTTP access authentication. (string)
adblock	Enable AdBlock. 0 (default) = no, 1 = yes.
cookies	Specify cookies to supply with test page requests.
video	Enable generation of video. 0 (default) = no, 1 = yes
stop_onload	Stop the test at 'window.onload' instead of after the page has fully loaded (i.e. 2 seconds of network inactivity). 0 (default) = no, 1 = yes
throttle	Throttle the connection. Speed measured in Kbps, latency in ms. Format: "up/down/latency"
allow_url	Only load resources that match one of the URLs on this list. This uses the same syntax as the web front end.
block_url	Prevent loading of resources that match one of the URLs on this list. This occurs after the Only Allow URLs are applied. This uses the same syntax as the web front end.
dns	Use a custom DNS host and IP to run the test with.
simulate_device	Simulate the display of your site on a variety of devices using a pre-selected combination of Screen Resolutions, User Agents, and Device Pixel Ratios. (Expected: Device ID)
user_agent	Use a custom User Agent string.
browser_width	Set the width of the viewport for the analysis. Also requires browser_height to be set.
browser_height	Set the height of the viewport for the analysis. Also requires browser_width to be set.
browser_dppx	Set the device pixel ratio for the analysis. Decimals are allowed.
browser_rotate	Swaps the width and height of the viewport for the analysis. simulate_device overrides this parameter with preset values.

Value

A data.frame object that contains either the test meta data or the GTmetrix report (if it's already completed).

Examples

```
## Not run: output_table <- start_test(  
  url = "google.com",  
  api_key = "API_KEY",  
  wait_for_completion = TRUE  
)  
## End(Not run)
```

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