

Package ‘textrar’

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Title Interface to 'TexTra' from R

Version 0.9.0

Description A wrapper for the 'TexTra' API <<https://mt-auto-minhon-mlt.ucri.jgn-x.jp/>>, a web service for translating texts between different languages. 'TexTra' API account is required to use the service.

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Encoding UTF-8

URL <https://github.com/matutosi/textrar>,
<https://matutosi.github.io/textrar/>

Imports jsonlite, httr

Suggests knitr, rmarkdown, spelling, testthat (>= 3.2.0), withr

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base_url	<i>Return the base URL for the API</i>
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Description

Return the base URL for the API

Usage

```
base_url()
```

Value

A string containing the base URL.

Deprecated

`base_url()` is a low level building block that was never meant to be part of the public interface. It is deprecated as of textrar 0.9.0 and will be removed in a future release. If you rely on it, please open an issue at <https://github.com/matutosi/textrar/issues>.

Examples

```
## Not run:  
base_url()  
  
## End(Not run)
```

extract_result	<i>Extract Translated Text from Response</i>
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Description

This function extracts the translated text from the response. returned by the `post_request()` function.

Usage

```
extract_result(res)
```

Arguments

res	The response object returned by the <code>post_request()</code> .
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Value

A character string containing the translated text. An error is raised when the API reports a failure. Note that the API answers with HTTP 200 even when it fails, and reports the failure in `resultset$code`, so the status code alone cannot be relied upon.

Deprecated

`extract_result()` is a low level building block that was never meant to be part of the public interface. It is deprecated as of `textrar 0.9.0` and will be removed in a future release. Use `textra()` instead. If you rely on it, please open an issue at <https://github.com/matutosi/textrar/issues>.

Examples

```
## Not run:
res <- post_request(params, "Hello world!")
translated <- extract_result(res)

## End(Not run)
```

`gen_params`*Generate parameters for API call*

Description

This function generates a list of parameters that can be used to make an API call.

Usage

```
gen_params(
  key = textra_env("TEXTRA_API_KEY"),
  secret = textra_env("TEXTRA_API_SECRET"),
  name = textra_env("TEXTRA_NAME"),
  api_name = "mt"
)
```

Arguments

<code>key</code>	The API key. Defaults to the environment variable <code>TEXTRA_API_KEY</code> .
<code>secret</code>	The API secret. Defaults to the environment variable <code>TEXTRA_API_SECRET</code> .
<code>name</code>	The login ID of the 'TexTra' account. Defaults to the environment variable <code>TEXTRA_NAME</code> .
<code>api_name</code>	The name of the API to use. Defaults to "mt".

Details

Storing the credentials in the environment rather than in your scripts keeps them out of version control and out of shared files. Add the following lines to your user .Renviron file, which use `this::edit_r_environ()` opens, and restart R.

```
TEXTRA_API_KEY=your_api_key
TEXTRA_API_SECRET=your_api_secret
TEXTRA_NAME=your_login_id
```

Value

A list of parameters.

Examples

```
## Not run:
# Using the credentials stored in .Renviron (recommended).
params <- gen_params()

# Or passing them explicitly.
key <- "abcdefghijklmnopqrstuvwxyz01234567890abcdef1" # API key
secret <- "abcdefghijklmnopqrstuvwxyz012345" # API secret
name <- "login_ID" # login_ID
params <- gen_params(key = key, secret = secret, name = name)

## End(Not run)
```

get_token

Get Access Token

Description

This function retrieves an access token from the API using the provided key and secret.

Usage

```
get_token(
  key = textra_env("TEXTRA_API_KEY"),
  secret = textra_env("TEXTRA_API_SECRET")
)
```

Arguments

key	The API key. Defaults to the environment variable TEXTRA_API_KEY.
secret	The API secret. Defaults to the environment variable TEXTRA_API_SECRET.

Value

A character string containing the access token. An error is raised when 'TexTra' rejects the credentials.

Examples

```
## Not run:
# Using the credentials stored in .Renviron (recommended).
token <- get_token()

# Or passing them explicitly.
key <- "abcdefghijklmnopqrstuvwxyz01234567890abcdef1" # API key
secret <- "abcdefghijklmnopqrstuvwxyz012345" # API secret
token <- get_token(key = key, secret = secret)

## End(Not run)
```

post_request	<i>Send a POST request to the API</i>
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Description

This function sends a POST request to the API with the specified parameters and text.

Usage

```
post_request(params, text)
```

Arguments

params	A list of parameters to be passed to the API.
text	The text to be translated.

Value

The response from the API.

Deprecated

`post_request()` is a low level building block that was never meant to be part of the public interface. It is deprecated as of `textrar 0.9.0` and will be removed in a future release. Use `textra()` instead. If you rely on it to reach an endpoint that `textra()` does not cover, please open an issue at <https://github.com/matutosi/textrar/issues> so that a supported way of doing so can be provided.

Examples

```
## Not run:
post_request(params, text = "Hello, world!")

## End(Not run)
```

textra	<i>Translate text with 'TexTra'</i>
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Description

This function translates text with the 'TexTra' machine translation API.

Usage

```
textra(text, params, model = "transLM", from = "en", to = "ja")
```

Arguments

text	The text to be translated.
params	A list of parameters to be passed to the API.
model	The model to be used for translation.
from	The source language.
to	The target language.

Value

The translated text.

Examples

```
## Not run:
text <- "Hello world"
key <- "abcdefghijklmnopqrstuvwxyz01234567890abcdef1" # API key
secret <- "abcdefghijklmnopqrstuvwxyz012345" # API secret
name <- "login_ID" # login_ID
params <- gen_params(key = key, secret = secret, name = name)
translated <-
  textra(text, params, model = "transLM", from = "en", to = "ja")
translated

## End(Not run)
```

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