

Package ‘HIBPwned’

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Title Bindings for the 'HaveIBeenPwned.com' Data Breach API

Version 0.1.7

Description Utilising the 'Have I been pwned?' API (see <<https://haveibeenpwned.com/API/v2>> for more information), check whether email addresses and/or user names have been present in a publicly disclosed data breach.

Depends R (>= 3.2.3)

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LazyData true

Suggests testthat, knitr, rmarkdown, lintr, webmockr

Imports crul, urltools, jsonlite, ratelimitr, memoise

RoxygenNote 6.0.1.9000

VignetteBuilder knitr

URL <https://github.com/lockedata/HIBPwned>,
<https://itsalocke.com/hibpwned/>

BugReports <https://github.com/lockedata/HIBPwned/issues>

Encoding UTF-8

NeedsCompilation no

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R topics documented:

.GETcontent	2
account_breaches	2

breached_site	3
breached_sites	4
data_classes	5
HIBPwned	5
HIBP_headers	6
pastes	6

Index	8
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<code>.GETcontent</code>	<i>Used to extract content from a GET request and collapse to a data.frame</i>
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Description

It calls a helper function that retries up to 6 times

Usage

```
.GETcontent(URLS, headers, verbose)
```

Arguments

URLS	urls
headers	headers as built by HIBP_headers()
verbose	whether to message about http errors and re-tries

Value

data.frame

<code>account_breaches</code>	<i>Search for data breaches associated with one or more accounts.</i>
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Description

Search for data breaches associated with one or more accounts.

Usage

```
account_breaches(accounts, truncate = FALSE, domain = NULL,
  as_list = TRUE, verbose = TRUE, agent = NULL)
```

Arguments

accounts	A character vector of email addresses or account names
truncate	Whether responses should be trimmed to just name of breached site
domain	Search a specific domain
as_list	whether to return results as a list (default, TRUE) or a data.frame, When returned as a data.frame only accounts with at least one breach are returned.
verbose	whether to message about http errors and re-tries
agent	agent to be used as header in calls, by default "HIBPwned R pkg". # nolint

Details

Note that the package uses memoise (<https://github.com/r-lib/memoise>) with no timeout argument so that results are cached inside an active R session.

Value

List of data.frames containing results

Examples

```
account_breaches(c("steff.sullivan@gmail.com", "stephanie.g.locke@gmail.com"))
```

breached_site	<i>Get a specific breached site, based in breach name (not domain)</i>
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Description

Get a specific breached site, based in breach name (not domain)

Usage

```
breached_site(name, verbose = TRUE, agent = NULL)
```

Arguments

name	Search for a specific named breach
verbose	whether to message about http errors and re-tries
agent	agent to be used as header in calls, by default "HIBPwned R pkg". # nolint

Details

Note that the package uses memoise (<https://github.com/r-lib/memoise>) with no timeout argument so that results are cached inside an active R session.

Value

Data.frame containing breach details

Examples

```
breached_site("Adobe")
```

breached_sites	<i>Get all (nonsensitive) breached sites in HIBP</i>
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Description

Get all (nonsensitive) breached sites in HIBP

Usage

```
breached_sites(domain = NULL, verbose = TRUE, agent = NULL)
```

Arguments

domain	Search a specific domain
verbose	whether to message about http errors and re-tries
agent	agent to be used as header in calls, by default "HIBPwned R pkg". # nolint

Details

Note that the package uses memoise (<https://github.com/r-lib/memoise>) with no timeout argument so that results are cached inside an active R session.

Value

Data.frame containing breach details

Examples

```
breached_sites()
```

data_classes	<i>Get list of classes of data that have been exposed in breaches</i>
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Description

Get list of classes of data that have been exposed in breaches

Usage

```
data_classes(verbose = TRUE, agent = NULL)
```

Arguments

verbose	whether to message about http errors and re-tries
agent	agent to be used as header in calls, by default "HIBPwned R pkg". # nolint

Details

Note that the package uses memoise (<https://github.com/r-lib/memoise>) with no timeout argument so that results are cached inside an active R session.

Value

Data.frame containing data class details

Examples

```
data_classes()
```

HIBPwned	<i>HIBPwned</i>
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Description

Utilising the HaveIBeenPwned.com API, check whether email addresses and/or user names have been present in a publicly disclosed data breach.

HIBP_headers	<i>Construct headers for a HIBP request. [Optional] Change the agent to make the request bespoke to you.</i>
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Description

Construct headers for a HIBP request. [Optional] Change the agent to make the request bespoke to you.

Usage

```
HIBP_headers(agent = "HIBPwned R pkg")
```

Arguments

agent	The user agent the API call should run under
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Value

headers

Examples

```
HIBP_headers()
```

pastes	<i>Search for cases where an email address has been included in a paste</i>
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Description

Search for cases where an email address has been included in a paste

Usage

```
pastes(emails, verbose = TRUE, agent = NULL)
```

Arguments

emails	A character vector of email addresses
verbose	whether to message about http errors and re-tries
agent	agent to be used as header in calls, by default "HIBPwned R pkg". # nolint

Details

According to the API docs (<https://haveibeenpwned.com/FAQs#Pastes>), "A "paste" is information that has been "pasted" to a publicly facing website designed to share content such as Pastebin."

pastes

7

Value

List of data.frames containing results

Examples

```
pastes(c("steff.sullivan@gmail.com", "stephanie.g.locke@gmail.com"))
```

Index

[.GETcontent](#), [2](#)
[account_breaches](#), [2](#)
[breached_site](#), [3](#)
[breached_sites](#), [4](#)
[data_classes](#), [5](#)
[HIBP_headers](#), [6](#)
[HIBPwned](#), [5](#)
[HIBPwned-package \(HIBPwned\)](#), [5](#)
[pastes](#), [6](#)