

# Package ‘wikifacts’

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**Type** Package

**Title** Get Facts and Data from Wikipedia and Wikidata

**Version** 0.4.2

**Description** Query Wikidata and get facts from current and historic Wikipedia main pages.

**License** CC0

**Encoding** UTF-8

**Imports** magrittr, rvest, utils, xml2

**RoxygenNote** 7.1.1

**Suggests** covr, testthat

**NeedsCompilation** no

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wiki_define	<i>Define a term from Wikipedia</i>
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**Description**

'wiki\_define()' displays plaintext extract(s) of the given term(s) from ' the Wikipedia article(s).

**Usage**

```
wiki_define(term = NULL, sentences = 5L)
```

**Arguments**

term	A non-empty character string or vector giving the name(s) of the term to be searched
sentences	An integer (or whole number) giving the number of sentences to return

**Value**

An extract from the Wikipedia article

**Examples**

```
wiki_define('R (programming language)')

animals <- data.frame(name = c("dog", "cat"))
animals$definition <- wiki_define(animals$name, sentences = 1)
print(animals)
```

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wiki_didyouknow	<i>Generate 'did you know' facts from the Wikipedia main page on a specified date.</i>
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**Description**

'wiki\_didyouknow()' generates 'did you know' facts from the Wikipedia main page on a specified date.

**Usage**

```
wiki_didyouknow(
  n_facts = 1L,
  date = sample(seq(as.Date("2015-01-01"), Sys.Date() - 1, by = "day"), 1),
  bare_fact = FALSE
)
```

**Arguments**

n_facts	An integer determining the number of facts that will be generated, up to a limit of the maximum facts for the date specified.
date	A date string of the form YYYY-MM-DD. Default value is a random date since 1 January 2015.
bare_fact	Logical. Determining whether the fact should be quoted as is or surrounded by a preamble and courtesy statement.

**Value**

A vector of strings with random 'did you know' facts from Wikipedia's main page if it exists for the date specified - otherwise "I got nothin"

**Examples**

```
wiki_didyouknow(n_facts = 2, date = '2020-05-02')
```

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wiki_inthenews	<i>Generate news items from the Wikipedia main page on a specified date.</i>
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**Description**

'wiki\_inthenews()' generates news items from the Wikipedia main page on a specified date.

**Usage**

```
wiki_inthenews(
  n_facts = 1L,
  date = sample(seq(as.Date("2015-01-01"), Sys.Date() - 1, by = "day"), 1),
  bare_fact = FALSE
)
```

**Arguments**

n_facts	An integer determining the number of facts that will be generated, up to a limit of the maximum facts for the date specified.
date	A date string of the form YYYY-MM-DD. Default value is a random date since 1 January 2015.
bare_fact	Logical. Determining whether the fact should be quoted as is or surrounded by a preamble and courtesy statement.

**Value**

A vector of strings with random 'in the news' items from Wikipedia's main page, if it exists for the date specified - otherwise "I got nothin"

**Examples**

```
wiki_inthenews(n_facts = 1, date = '2020-05-02')
```

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wiki_onthisday	<i>Generate 'on this day' facts from the Wikipedia main page on a specified date.</i>
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**Description**

'wiki\_onthisday()' generates 'on this day' facts from the Wikipedia main page on a specified date.

**Usage**

```
wiki_onthisday(
  n_facts = 1L,
  date = sample(seq(as.Date("2015-01-01"), Sys.Date() - 1, by = "day"), 1),
  bare_fact = FALSE
)
```

**Arguments**

n_facts	An integer determining the number of facts that will be generated, up to a limit of the maximum facts for the date specified.
date	A date string of the form YYYY-MM-DD. Default value is a random date since 1 January 2015.
bare_fact	Logical. Determining whether the fact should be quoted as is or surrounded by a preamble and courtesy statement.

**Value**

A vector of strings with random 'on this day' facts from Wikipedia's main page if it exists for the date specified - otherwise "I got nothin"

**Examples**

```
wiki_onthisday(date = '2020-05-02')
```

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`wiki_query`*Send queries to Wikidata and receive results as dataframe*

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**Description**

`'wiki_query()'` sends a SPARQL query to Wikidata and collects the results in a dataframe

**Usage**

```
wiki_query(qry)
```

**Arguments**

`qry` A character string representing a SPARQL query to be sent to Wikidata

**Value**

A dataframe of results

**Examples**

```
# List five diseases
query <- 'SELECT ?itemLabel WHERE {
  ?item wdt:P31 wd:Q12136. #instance of disease
  SERVICE wikibase:label { bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en". }
}'
LIMIT 5'
wiki_query(query)
```

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`wiki_randomfact`*Generate random facts from historic Wikipedia main pages*

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**Description**

`'wiki_randomfact()'` generates random facts from Wikipedia main pages after 1 January 2015.

**Usage**

```
wiki_randomfact(
  n_facts = 1L,
  fact = c("any", "didyouknow", "onthisday", "inthenews"),
  bare_fact = FALSE,
  repeats = TRUE
)
```

**Arguments**

n_facts	An integer determining the number of facts that will be generated.
fact	String to determine the type of fact to be randomly generated - "any" will generate a random selection.
bare_fact	Logical. Determining whether the fact should be quoted as is or surrounded by a preamble and courtesy statement.
repeats	Logical. Determining if repeat facts should be permitted. If FALSE the number of facts may be less than requested.

**Value**

A vector of strings with random items from Wikipedia's main page - otherwise "I got nothin'"

**Examples**

```
wiki_randomfact()
```

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```
wiki_search
```

*Display results of a Wikipedia search in the browser*

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**Description**

'wiki\_search()' displays the results of a Wikipedia search in the browser.

**Usage**

```
wiki_search(term = NULL, browser = getOption("browser"))
```

**Arguments**

term	A non-empty character string giving the name of the term to be searched
browser	A non-empty character string passed to [browseURL()] to determine the browser used.

**Value**

A display of the results of the search in the browser.

**Examples**

```
wiki_search('R (programming language)')
```

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