

Package ‘wikilake’

July 10, 2017

Title Scrape Lake Metadata Tables from Wikipedia

Version 0.3

Description Scrape lake metadata tables from Wikipedia <<http://www.wikipedia.org>>.

Imports rvest, stringi, WikipediR, xml2, sp, graphics, stringr,
selectr

URL <https://github.com/jsta/wikilake>

BugReports <https://github.com/jsta/wikilake/issues>

Depends R (>= 3.3.0), maps

License GPL (>= 2)

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

Suggests knitr, rmarkdown, testthat

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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wikilake-package	Scrape Wikipedia lakes metadata
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Description

Scrape Wikipedia lakes metadata

Author(s)

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dms2dd	<i>dms2dd</i>
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Description

Convert numeric coordinate vectors in degrees, minutes, and seconds to decimal degrees

Usage

dms2dd(x)

Arguments

x numeric vector of length 3 corresponding to degrees, minutes, and seconds

Examples

```
dt <- rbind(c(25,12,53.66),c(-80,32,00.61))
apply(dt, 1, function(x) dms2dd(x))
```

get_lake_wiki	<i>get_lake_wiki</i>
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Description

get_lake_wiki

Usage

get_lake_wiki(lake_name, cond = NA)

Arguments

lake_name	character
cond	character stopping condition

Examples

```
## Not run:  
get_lake_wiki("Lake Nipigon")  
  
## End(Not run)
```

lake_wiki	<i>lake_wiki</i>
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Description

lake_wiki

Usage

```
lake_wiki(lake_name, map = FALSE, ...)
```

Arguments

lake_name	character
map	logical produce map of lake location?
...	arguments passed to maps::map

Examples

```
## Not run:  
lake_wiki("Lake Peipsi")  
lake_wiki("Flagstaff Lake (Maine)")  
lake_wiki("Lake George (Michigan-Ontario)")  
lake_wiki("Lake Michigan", map = TRUE, "usa")  
lake_wiki("Lac La Belle, Michigan")  
lake_wiki("Lake Antoine")  
lake_wiki("Lake Baikal")  
lake_wiki("Dockery Lake (Michigan)")  
lake_wiki("Coldwater Lake")  
lake_wiki("Bankson Lake")  
lake_wiki("Fisher Lake (Michigan)")  
lake_wiki("Beals Lake")  
lake_wiki("Devils Lake (Michigan)")  
lake_wiki("Lake Michigan")  
lake_wiki("Fletcher Pond")  
lake_wiki("Lake Bella Vista (Michigan)")  
lake_wiki("Lake Mendota")
```

```
lake_wiki("Lake Mendota", map = TRUE, "usa")
lake_wiki("Lake Nipigon", map = TRUE, regions = "Canada")
lake_wiki("Trout Lake (Wisconsin)")
lake_wiki("Rutland Water")

# throws warning on redirects
lake_wiki("Beals Lake")

# ignore notability box
lake_wiki("Rainbow Lake (Waterford Township, Michigan)")

## End(Not run)
```

map_lake_wiki

map_lake_wiki

Description

map_lake_wiki

Usage

```
map_lake_wiki(res, ...)
```

Arguments

res	data.frame output of get_lake_wiki
...	arguments passed to maps::map

Examples

```
## Not run:
map_lake_wiki(get_lake_wiki("Corey Lake"), "usa")

map_lake_wiki(get_lake_wiki("Lake Nipigon"), regions = "Canada")

## End(Not run)
```

`milakes`*Michigan Lakes*

Description

Metadata of Michigan lakes scraped from Wikipedia.

Format

A data frame with 48 columns and 177 rows:

- Name: lake name
- Location: location description
- Primary inflows: rivers and streams
- Basin countries: countries
- Surface area: hectares
- Max. depth: meters
- Surface elevation: meters
- Lat: decimal degrees
- Lon: decimal degrees
- Primary outflows: rivers and streams
- Average depth: meters
- Max. length: meters
- Max. width: meters

`tidy_lake_df`*tidy_lake_df*

Description

`tidy_lake_df`

Usage

```
tidy_lake_df(lake)
```

Arguments

`lake` data.frame output of `get_lake_wiki`

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