Package ‘r2country’

Type Package
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byContinent

Description
Obtain country data matching language first one or more letters

Usage
byContinent(
  name = c("asia", "europe", "africa", "north america", "south america", "oceania"),
  full.list = TRUE
)

Arguments
name : name of continent
full.list : whether to return only name of country or full list
callingCodeOf

Details

Note that choices for names of continent includes 'asia','europe','africa','north america','south america','oceania'

Value

country data list matching continent

Examples

# task 1: get only names of countries that contains with "africa" or "AFrica"
# note that the search in case-insensitive
byContinent("africa", full.list = FALSE)

# task 2: get only names of countries that contains with "ASIA" or "asia"
byContinent("asia", full.list = FALSE)

# task 3: repeat task 2, but return full list for each country
byContinent("europe", full.list = TRUE)
#task 1: check the calling code of nigeria
callingCodeOf$nigeria

#task 2: check the calling code of united states
callingCodeOf$'united states'

#task 3: check calling code of multiple countries
callingCodeOf[c("slovenia","romania","malaysia")]

#task 4: what if the calling code is not available
callingCodeOf[c("randomcountry","mexico","luxembourg")]

capitalOf

Fetch the latest capital of a country

Description
With specified country name or names, get the associated capital

Usage
capitalOf

Format
An object of class list of length 193.

Value
a list containing all countries and their corresponding capital

Examples
# view the searchable countries, return first 6
head(names(capitalOf))

#task 0: check if the capital of japan is included
#should be all in lower case
grep("japan",names(capitalOf), value = TRUE)

#task 1: check the capital of nigeria
capitalOf$nigeria

#task 2: check the capital of united states
capitalOf$'united states'

#task 3: check capital of multiple countries
**city_time**

capitalOf[c("slovenia","romania","malaysia")]

#task 4: what if the capital is not available
capitalOf[c("randomcountry","mexico","luxembourg")]

city_time

---

**Dataset of current time in Cities**

**Description**

Dataset containing time different in various cities with respect to USA/New York time

**Usage**

data(city_time)

**Format**

A data frame with the current time in various cities

- **City** Names of cities
- **Timediff** Time difference relative to New York time

**Value**

cities and the current time relative to New York

**Source**

Internal data consisting of cities and their corresponding time

**References**

[https://www.timeanddate.com](https://www.timeanddate.com)

**Examples**

# load the cities and languages dataset
data(city_time)

# view content of the city-language data
head(city_time)
continentOf  

Fetch the continent of a country

Description

Get the continent that a particular country belongs to

Usage

continentOf

Format

An object of class list of length 193.

Value

a list containing all countries and corresponding continents

Examples

# view the searchable countries, return first 15
names(continentOf)[1:15]

# task 1: view the continent of algeria
continentOf$algeria

# task 2: view the continent of nigeria
continentOf$nigeria

# task 3: view the continent of multiple countries
continentOf[c("niger","china","colombia")]

# task 4: if the continent is not available
continentOf[c("niger","china","randomtest")]

COUNTRIES  

Names of all countries in upper case

Description

Fetch the names of all countries in upper case

Usage

COUNTRIES
countries

Format
An object of class character of length 193.

Value
Names of all countries in the globe in upper case

Examples

# list all the countries
COUNTRIES

# list only 5 countries
COUNTRIES[1:5]

# create a dataset with all countries of the world
data.frame(ID = 1, Names = COUNTRIES)

countries

Description
Fetch the names of all countries

Usage
countries

Format
An object of class character of length 193.

Value
Names of all countries in the globe

Examples

# list all the countries
countries

# list only 5 countries
countries[1:5]

# create a dataset with all countries of the world
data.frame(ID = quickcode::number(length(countries)), Names = countries)
countryEndsWith

Fetch countries that ends with specified characters

Description

Subset and return countries given a specified characters to search

Usage

countryEndsWith(char, full.list = TRUE)

Arguments

char      character to search for
full.list whether to return only name of country or full list

Value

country data list matching a specified character

See Also

[countryStartsWith()] for country search starting with specified characters, and [countryHas()] for countries that contain specified characters.

Examples

# task 1: get only names of countries that end with "A" or "a"
# note that the search is case-insensitive
countryEndsWith("A", full.list = FALSE)

# task 2: get only names of countries that end with "No" or "no"
countryEndsWith("no", full.list = FALSE)

# task 3: repeat task 2, but return full list for each country
countryEndsWith("no")
countryHas  

**Fetch countries that contains with specified characters**

**Description**

Subset to obtain data for countries containing specified characters to search

**Usage**

```r
countryHas(char, full.list = TRUE)
```

**Arguments**

- `char` character to search for
- `full.list` whether to return only name of country or full list

**Value**

country data list matching content from a specified character

**See Also**

- `country.StartsWith` for country search starting with specified characters, and `[country.EndsWith()]` for countries that end with a specified characters.

**Examples**

```r
# task 1: get only names of countries that contains with "ER" or "er"
# note that the search in case-insensitive
countryHas("er", full.list = FALSE)

# task 2: get only names of countries that contains with "LAND" or "lAND" or "land"
countryHas("lAND", full.list = FALSE)

# task 3: repeat task 2, but return full list for each country
countryHas("many", full.list = TRUE)
```
countryStartsWith

Fetch countries that start with specified characters

Description

Subset and return countries given a specified characters to search

Usage

countryStartsWith(char, full.list = TRUE)

Arguments

char character to search for
full.list whether to return only name of country or full list

Value

country data list matching a specified character

See Also

[countryEndsWith()] for country search ending in specified character, and [countryHas()] for countries that contain specified characters.

Examples

# task 1: get only names of countries that start with "A" or "a"
# note that the search in case-insensitive
countryStartsWith("A", full.list = FALSE)

# task 2: get only names of countries that start with "No" or "no"
countryStartsWith("no", full.list = FALSE)

# task 3: repeat task 2, but return full list for each country
countryStartsWith("no")
**country_calling_code**  
*Dataset of countries and their calling code*

**Description**  
Dataset containing country IDs and their calling code

**Usage**  
`data(country_calling_code)`

**Format**  
A data frame with the calling code of countries  
**ID** country identifiers  
**callingcode** Calling code of countries

**Value**  
Calling code of countries

**Source**  
Internal data consisting of countries and their calling code

**References**  
[https://countrycode.org](https://countrycode.org)

**See Also**  
Data `country_names` for linkage of IDs with country calling code

**Examples**  
```r  
# load the calling code dataset  
data(country_calling_code)  

# view content of the city-calling code data  
head(country_calling_code)  
```
Country capital

Description
Dataset containing country IDs and their capitals

Usage

data(country_capital)

Format
A data frame with the capitals that countries belong to

ID  country identifiers
capital  capitals of various country

Value
corresponding capitals of countries

Source
Internal data consisting of countries and their capital

References
https://www.wikipedia.org

See Also
Data country_names for linkage of IDs with capital

Examples

# load the capitals dataset
data(country_capital)
data(country_names)
finaldb <- cbind(country_names,country_capital)

# view content of the country and population
head(finaldb)
**Description**

Dataset containing country IDs and their continents

**Usage**

```r
data(country_continent)
```

**Format**

A data frame with the continents that countries belong to

- **ID**  country identifiers
- **continent**  continents of various country

**Value**

corresponding continents of countries

**Source**

Internal data consisting of countries and their continent

**References**

[https://www.wikipedia.org](https://www.wikipedia.org)

**See Also**

Data `country_names` for linkage of IDs with continent

**Examples**

```r
# load the continent dataset
data(country_continent)
data(country_names)
finaldb <- cbind(country_names, country_continent)

# view content of the country and population
head(finaldb)
```
Dataset of country official languages

Description
Data for all countries and their associated languages

Usage
data(country_language)

Format
A data frame with the languages of countries

- **ID**  Identifier for the countries
- **officiallanguage**  official languages of countries

Value
country ID and official languages

Source
Internal data consisting of all country IDs and their official languages

References
https://www.wikipedia.org

See Also
Data country_names for linkage of IDs with country names

Examples
# load the country ID and languages
data(country_language)

# view content of the countries languages
head(country_language)
Description

Data for all country currency names and symbols

Usage

data(country_money)

Format

A data frame with all countries and columns for currency

ID  Identifier for countries
currency  name of the currency
symbol  symbol of the currency
isocode  The ISO code of the currency
fractionalunit  The fractional unit of the currency

Value

data for currencies by country

Source

Internal data for currencies belonging to every country

References

https://www.wikipedia.org

See Also

country_names  for linkage of IDs with country names

Examples

data(country_money)

# view content of the countries currency
head(country_money)
Description

Data for all country currency names and associated ID

Usage

data(country_names)

Format

A data frame with the names of all countries

ID  Identifier for the countries
name name of the countries

Value

data for names of country

Source

Internal data consisting of all country names

References

https://www.wikipedia.org

Examples

# load the country names
data(country_names)

# view content of the countries currency
head(country_names)
**country_population**  
*Dataset of countries and their latest population*

---

### Description

Dataset containing country IDs and their population by year

### Usage

```r
data(country_population)
```

### Format

A data frame with the population of countries

- **ID**  country identifiers
- **population2023**  country population as of 2023

### Value

corresponding population size of countries

### Source

Internal data consisting of countries and their population

### References

[https://www.wikipedia.org](https://www.wikipedia.org)

### See Also

Data `country_names` for linkage of IDs with country population size

### Examples

```r
# load the population dataset
data(country_population)
data(country_names)
finaldb <- cbind(country_names,country_population)

# view content of the country and population
head(finaldb)
```
currencyOf

Fetch the currency of a country

Description

With specified country name or names, get the associated currency

Usage

currencyOf

Format

An object of class list of length 193.

Value

a list containing all countries and their corresponding currency

Examples

# view the searchable countries, return first 6
head(names(currencyOf))

# task 0: check if the currency of spain is included
# should be all in lower case
grep("spain", names(currencyOf), value = TRUE)

# task 1: check the currency of spain
currencyOf$spain

# task 2: check the currency of singapore list
currencyOf$singapore # return a list of singapore
currencyOf$singapore["symbol"] # returns the symbol
currencyOf$singapore["isocode"] # returns the iso code
currencyOf$singapore["fractionalunity"] # returns the fractional unit

# task 3: check currencies of multiple countries
currencyOf[c("slovenia","romania","malaysia")]

# task 4: what if the currency is not available
currencyOf[c("randomcountry","mexico","luxembourg")]


languageEndsWith

Fetch countries data with official language ending in specified character

Description

Obtain country data matching language first one or more letters

Usage

languageEndsWith(char, full.list = TRUE)

Arguments

char character to search in languages
full.list whether to return only name of country or full list

Value

language list or country data list matching parts of a character search on languages

See Also

countryStartsWith for country search starting with specified characters, and [countryEndsWith()] for countries that end with a specified characters.

Examples

# task 1: get only language names that ends with "EN" or "en"
# note that the search in case-insensitive
languageEndsWith("eN", full.list = FALSE)

# task 2: get only language names that ends with "chi"
languageEndsWith("chi", full.list = FALSE)

# task 3: repeat task 2, but return full list for each country with the language
languageEndsWith("sin", full.list = TRUE)

# searching text with no results
languageEndsWith("er", full.list = FALSE)
Fetch countries data based on official language prefix

Description

Obtain country data matching language first one or more letters

Usage

languageHas(char, full.list = TRUE)

Arguments

char character to search for
full.list whether to return only name of country or full list

Value
country data list matching content from a specified character

See Also
countryStartsWith for country search starting with specified characters, and [countryEndsWith()] for countries that end with a specified characters.

Examples

# task 1: get only names of countries that contains with "ER" or "er"
# note that the search in case-insensitive
countryHas("er", full.list = FALSE)

# task 2: get only names of countries that contains with "LAND" or "lAND" or "land"
countryHas("lAND", full.list = FALSE)

# task 3: repeat task 2, but return full list for each country
countryHas("many", full.list = TRUE)
languageOf

Fetch the official language of a country

Description

With specified country name or names, get the associated official language(s)

Usage

languageOf

Format

An object of class list of length 193.

Value

a list containing all countries and their corresponding language

Examples

# view the searchable countries, return first 6
head(names(languageOf))

#task 0: check if the language of japan is included
#should be all in lower case
grep("japan",names(languageOf), value = TRUE)

#task 1: check the language of nigeria
languageOf$nigeria

#task 2: check the language of united states
languageOf$'united states`

#task 3: check language of multiple countries
languageOf[c("slovenia","romania","malaysia")]

#task 4: what if the language is not available
languageOf[c("randomcountry","mexico","luxembourg")]

languageStartsWith  Fetch countries data based on official language prefix

**Description**

Obtain country data matching language first one or more letters

**Usage**

languageStartsWith(char, full.list = TRUE)

**Arguments**

- **char**: character to search in languages
- **full.list**: whether to return only name of country or full list

**Value**

language list or country data list matching parts of a character search on languages

**See Also**

countryStartsWith for country search starting with specified characters, and [countryEndsWith()] for countries that end with a specified characters.

**Examples**

# task 1: get only language names that ends with "EN" or "en"
# note that the search in case-insensitive
languageStartsWith("eN", full.list = FALSE)

# task 2: get only language names that ends with "chi"
languageStartsWith("chi", full.list = FALSE)

# task 3: repeat task 2, but return full list for each country with the language
languageStartsWith("sin", full.list = TRUE)

# searching text with no results
languageStartsWith("er", full.list = FALSE)
populationOf

**Fetch the latest population count of a country**

**Description**

With specified country name or names, get the associated population

**Usage**

populationOf

**Format**

An object of class `list` of length 193.

**Value**

a list containing all countries and their corresponding population

**Examples**

```r
# view the searchable countries, return first 6
head(names(populationOf))

#task 0: check if the population of japan is included
#should be all in lower case
grep("japan",names(populationOf), value = TRUE)

#task 1: check the population of nigeria
populationOf$nigeria

#task 2: check the population of united states
populationOf$'united states`

#task 3: check population of multiple countries
populationOf[c("slovenia","romania","malaysia")]

#task 4: what if the population is not available
populationOf[c("randomcountry","mexico","luxembourg"voke])
```
timeIn

*Fetch the current time in a specific city*

**Description**

Get the current time using specified city name

**Usage**

timeIn

**Format**

An object of class list of length 2226.

**Value**

A list containing all cities and corresponding local time

**Examples**

```r
# view the searchable cities, return first 10
names(timeIn)[1:10]

# task 0: check if the time in Delhi is present
# should be all in lower case
grep("delhi", names(timeIn), value = TRUE)

# task 1: check the time in delhi
timeIn$delhi

# task 2: check the time in Boston
timeIn$boston

# task 3: view the time in multiple countries
timeIn[c("ankara","dubai","ontario")]

# task 4: what if the city is not available
timeIn[c("randomcity","york","jerusalem")]
```
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