

Package: lingtypology (via r-universe)

November 28, 2024

Type Package

Title Linguistic Typology and Mapping

Version 1.1.20

Depends R (>= 3.5.0)

Imports leaflet, leaflet.minicharts, stats, utils, stringdist,
grDevices, jsonlite

Description Provides R with the Glottolog database
<<https://glottolog.org/>> and some more abilities for purposes
of linguistic mapping. The Glottolog database contains the
catalogue of languages of the world. This package helps
researchers to make a linguistic maps, using philosophy of the
Cross-Linguistic Linked Data project <<https://clld.org/>>, which
allows for while at the same time facilitating uniform access
to the data across publications. A tutorial for this package is
available on GitHub pages
<<https://docs.ropensci.org/lingtypology/>> and package vignette.
Maps created by this package can be used both for the
investigation and linguistic teaching. In addition, package
provides an ability to download data from typological databases
such as WALS, AUTOTYP and some others and to create your own
database website.

License GPL (>= 2)

URL <https://CRAN.R-project.org/package=lingtypology>,
<https://github.com/ropensci/lingtypology/>,
<https://ropensci.github.io/lingtypology/>

BugReports <https://github.com/ropensci/lingtypology/issues>

LazyData TRUE

RoxygenNote 7.3.2.9000

Encoding UTF-8

Suggests knitr, rmarkdown, testthat, MASS, sp, sf, ape

VignetteBuilder knitr

Config/pak/sysreqs libgdal-dev gdal-bin libgeos-dev make libpng-dev
libproj-dev libsqlite3-dev

Repository <https://ropensci.r-universe.dev>

RemoteUrl <https://github.com/ropensci/lingtypology>

RemoteRef master

RemoteSha 27485c6a7b6981e39de9a635741570b758a751b7

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| | |
|------|------------------------------------|
| abvd | <i>ABVD's Language identifiers</i> |
|------|------------------------------------|

Description

Language identifiers from ABVD (<https://abvd.eva.mpg.de/austronesian/>). This dataset is created for `abvd.feature` function.

Usage

```
abvd
```

Format

A data frame with 1468 rows and 2 variables:

id language identifier
glottocode Glottocode

`abvd.feature`*Download ABVD data*

Description

This function downloads data from ABVD (<https://abvd.eva.mpg.de/austronesian/>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
abvd.feature(feature)
```

Arguments

`feature` A character vector that define a language id from ABVD (e. g. "1", "292").

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#)

Examples

```
# abvd.feature(c(292, 7))
```

`afbo.feature`*Download AfBo data*

Description

This function downloads data from AfBo (<https://afbo.info/>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
afbo.feature(features = "all", na.rm = TRUE)
```

Arguments

| | |
|----------|---|
| features | A character vector that define with an affix functions from AfBo (e. g. "all", "adjectivizer", "focus"). |
| na.rm | Logical. If TRUE function removes all languages not available in lingtypology database. By default is TRUE. |

See Also

[abvd.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#)

[abvd.feature](#), [autotyp.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [uralex.feature](#), [valpal.feature](#), [wals.feature](#)

Examples

```
# afbo.feature()
# afbo.feature(c("adjectivizer", "adverbializer"))
```

aff.lang

Get affiliation by language

Description

Takes any vector of languages and returns affiliation.

Usage

```
aff.lang(x)
```

Arguments

x A character vector of the languages (can be written in lower case)

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[area.lang](#), [country.lang](#), [gltc.lang](#), [iso.lang](#), [lat.lang](#), [long.lang](#), [subc.lang](#), [url.lang](#)

Examples

```
aff.lang('Korean')
aff.lang(c('Korean', 'Polish'))
```

area.lang *Get macro area by language*

Description

Takes any vector of languages and returns macro area.

Usage

```
area.lang(x)
```

Arguments

x character vector of the languages (can be written in lower case)

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [country.lang](#), [gltc.lang](#), [iso.lang](#), [lat.lang](#), [long.lang](#), [subc.lang](#), [url.lang](#)

Examples

```
area.lang('Kabardian')
area.lang(c('Kabardian', 'Aduge'))
```

atlas.database *Create an atlas*

Description

This function creates an rmarkdown based atlas from data provided by users. This function creates the template, after it should be rendered by rmarkdown package. The DT package is required during the rendering.

Usage

```
atlas.database(
  languages,
  latitude,
  longitude,
  features,
  atlas.name = "",
  author = ""
)
```

Arguments

| | |
|------------|--|
| languages | character vector of languages (can be written in lower case) |
| latitude | numeric vector of latitudes (optional) |
| longitude | numeric vector of longitudes (optional) |
| features | dataframe where each column is a feature set |
| atlas.name | string with an atlas name |
| author | string with the authors list |

`autotyp`*AUTOTYP's Language identifiers*

Description

Language identifiers from AUTOTYP v. 1.1.1 (<https://github.com/autotyp/autotyp-data/>). This dataset is created for `autotyp.feature` function.

Usage

```
autotyp
```

Format

An object of class `data.frame` with 1342 rows and 3 columns.

Details

```
#' @format A data frame with 1342 rows and 3 variables:
```

path path to the dataset in autotyp repo

variable variable name

file topic name

autotyp.feature *Download AUTOTYP data*

Description

This function downloads data from AUTOTYP (<https://github.com/autotyp/autotyp-data#the-autotyp-database>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
autotyp.feature(features, na.rm = TRUE)
```

Arguments

| | |
|----------|---|
| features | A character vector that define with a feature names from AUTOTYP. |
| na.rm | Logical. If TRUE function removes all languages not available in lingtypology database. By default is TRUE. |

See Also

[abvd.feature](#), [afbo.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#)

[abvd.feature](#), [afbo.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [uralex.feature](#), [valpal.feature](#), [wals.feature](#)

Examples

```
# autotyp.feature(c('Has Gender', 'Has Numeral Classifiers'))
```

bantu *BANTU's Language identifiers*

Description

Language identifiers from BANTU (<https://abvd.eva.mpg.de/bantu/index.php>). This dataset is created for [bantu.feature](#) function.

Usage

```
bantu
```


Format

A data frame with 430 rows and 2 variables:

id BANTU word id

word word

| | |
|---------------|----------------------------|
| bantu.feature | <i>Download BANTU data</i> |
|---------------|----------------------------|

Description

This function downloads data from Bantu Basic Vocabulary Database (<https://abvd.eva.mpg.de/bantu/index.php>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
bantu.feature(features)
```

Arguments

features A character vector that define with a feature ids from BANTU ('house', 'cat').

Author(s)

Anna Smirnova <annedadaa@gmail.com>

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [uralex.feature](#), [valpal.feature](#)

Examples

```
# bantu.feature(c('house', 'cat'))
```

bivaltyp.feature *Download BivalTyp data*

Description

This function downloads data from BivalTyp (<https://www.bivaltyp.info/>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
bivaltyp.feature()
```

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [valpal.feature](#), [wals.feature](#)

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#) # `bivaltyp.feature()`

circassian *Circassian villages in Russia*

Description

A dataset contains the list of the Circassian villages in Russia with genealogical affiliation, coordinates and district names. Most data collected during the fieldworks (2011–2018).

Usage

```
circassian
```

Format

A data frame with 158 rows and 6 variables:

longitude longitude

latitude latitude

village name of the village

district names of the subjects of the Russian Federation: kbr — Kabardino–Balkar Republic, kch — Karachay–Cherkess Republic, kk — Krasnodar Krai, ra — Republic of Adygea, stv — Stavropol Krai

dialect names of the Circassian dialects

language according standard Circassian deivision there are West Circassian and Kabardian languages

countries

Catalogue of countries

Description

Catalogue of countries, ISO-codes and official languages

Usage

```
countries
```

Format

A data frame with 189 rows and 5 variables:

alpha3 ISO 3166-3 code of the country

alpha2 ISO 3166-2 code of the country

country_name Country name

additional_names Additional names of the country

official_languages Official languages

country.lang

Get country by language

Description

Takes any vector of languages and returns countries where those languages are used as ISO 3166-1 alpha-2 codes.

Usage

```
country.lang(x, full_name = TRUE)
```

Arguments

x A character vector of the languages (can be written in lower case)

full_name A logical value, whether return ISO 3166-2 codes or full names.

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [area.lang](#), [gltc.lang](#), [iso.lang](#), [lat.lang](#), [long.lang](#), [subc.lang](#), [url.lang](#)

Examples

```
country.lang('Korean')
country.lang(c('Korean', 'Polish'))
```

eurasianphonology *Eurasianphonology data*

Description

Data from The database of Eurasian phonological inventories (<https://eurphon.info>). This dataset is created for [eurasianphonology.feature](#) function.

Usage

```
eurasianphonology
```

Format

A data frame with 19825 rows and 19 variables:

id Language id
iso ISO code
name Another language name
type Language or dialect
language Language name
latitude latitude
longitude longitude
gen1 Language Family
gen2 Language Family
tones Inventory of tones
syllab Syllab structure
cluster Cluster
finals Finals
source Source
comment Comment

contr Contributor
segment_type Vowels or consonants
segments Segments
glottocode Glottocode

eurasianphonology.feature

Opens data from the database of Eurasian phonological inventories

Description

This function opens downloaded data from the database of Eurasian phonological inventories (<https://eurphon.info>).

Usage

```
eurasianphonology.feature()
```

Author(s)

Kirill Koncha <majortomblog@gmail.com>

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#)

Examples

```
eurasianphonology.feature()
```

frequency_list.feature

Download frequency list

Description

This function downloads frequency list from OpenSubtitles2018 (<https://opus.nlpl.eu/>). You need the internet connection.

Usage

```
frequency_list.feature(languages, list_type = "full")
```

Arguments

| | |
|-----------|--|
| languages | ISO 639-1 language code and some others ('ze_en', 'ze_zh', 'zh_cn', 'zh_tw', 'pt_br'). Possible values: 'af', 'ar', 'bg', 'bn', 'br', 'bs', 'ca', 'cs', 'da', 'de', 'el', 'en', 'eo', 'es', 'et', 'eu', 'fa', 'fi', 'fr', 'gl', 'he', 'hi', 'hr', 'hu', 'hy', 'id', 'is', 'it', 'ja', 'ka', 'kk', 'ko', 'lt', 'lv', 'mk', 'ml', 'ms', 'nl', 'no', 'pl', 'pt', 'pt_br', 'ro', 'ru', 'si', 'sk', 'sl', 'sq', 'sr', 'sv', 'ta', 'te', 'tl', 'tr', 'uk', 'ur', 'vi', 'ze_en', 'ze_zh', 'zh_cn', 'zh_tw'. |
| list_type | Type of frequency list. Possible values: 'full', '50k', 'ignored'. By default is full. |

Author(s)

Ekaterina Zalivina <zalivina01@mail.ru>

See Also

[abvd.feature](#), [afbo.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#)

[abvd.feature](#), [afbo.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [uralex.feature](#), [valpal.feature](#), [wals.feature](#)

Examples

```
# frequency_list.feature('ro')
# frequency_list.feature('en', '50k')
# frequency_list.feature(c('en', 'ru'), '50k')
```

glottolog

Catalogue of languages of the world

Description

A dataset contains the original catalogue of languages of the world involving genealogical affiliation, macro-area, country, iso code, and coordinates.

Usage

glottolog

Format

A data frame with 26953 rows and 10 variables:

glottocode languoid code from Glottolog 5.1

language name of the language

iso code based on ISO 639-3 <https://iso639-3.sil.org/>

level languoid type: dialect or language (possible values are dialect, language, family, bookkeeping, pseudo family, sign language, unclassifiable, pidgin, unattested, artificial language, speech register, mixed language)

area have six values Africa, Australia, Eurasia, North America, Papunesia, South America

latitude latitude

longitude longitude

countries list of countries, where the language is spoken

affiliation genealogical affiliation

subclassification subclassification in a Newick format

Details

Hammarstrom, Harald and Forkel, Robert and Haspelmath, Martin and Bank, Sebastian. 2023. Glottolog 5.1. Leipzig: Max Planck Institute for Evolutionary Anthropology. <https://doi.org/10.5281/zenodo.10804357> (Available online at <http://glottolog.org>, Accessed on 2024-03-12.)

Source

<https://glottolog.org/>

gltc.iso

Get Glottocode by ISO 639–3 code

Description

Takes any vector of ISO 639–3 codes and returns Glottocodes.

Usage

```
gltc.iso(x)
```

Arguments

x A character vector of the Glottocodes.

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [area.lang](#), [lat.lang](#), [long.lang](#)

Examples

```
gltc.iso('ady')
gltc.iso(c('ady', 'rus'))
```

| | |
|-----------|-----------------------------------|
| gltc.lang | <i>Get Glottocode by language</i> |
|-----------|-----------------------------------|

Description

Takes any vector of languages and returns Glottocode.

Usage

```
gltc.lang(x)
```

Arguments

x A character vector of the languages (can be written in lower case)

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [area.lang](#), [country.lang](#), [iso.lang](#), [lat.lang](#), [long.lang](#), [subc.lang](#), [url.lang](#)

Examples

```
gltc.lang('Kabardian')
gltc.lang(c('Kabardian', 'Udi'))
```

| | |
|------------------|-------------------------------|
| grambank.feature | <i>Download Grambank data</i> |
|------------------|-------------------------------|

Description

This function downloads data from Grambank (<https://grambank.clld.org/>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
grambank.feature(features, na.rm = TRUE)
```

Arguments

features A character vector that define with a feature ids from Grambank (e. g. "gb026", "gb042").

na.rm Logical. If TRUE function removes all languages not available in lingtypology database. By default is TRUE.

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#)

Examples

```
# grambank.feature(c("gb026", "gb042"))
```

| | |
|---------|---|
| imports | <i>Objects imported from other packages</i> |
|---------|---|

Description

These objects are imported from other packages. Follow the links to their documentation.

magrittr [%>%](#)

| | |
|--------------|--|
| is.glottolog | <i>Are these languages in glottolog?</i> |
|--------------|--|

Description

Takes any vector of languages or ISO codes and returns a logical vector.

Usage

```
is.glottolog(x, response = FALSE)
```

Arguments

| | |
|----------|--|
| x | A character vector of languages (can be written in lower case) or ISO codes |
| response | logical. If TRUE, when language is absent, return warnings with a possible candidates. |

Author(s)

George Moroz <agricolamz@gmail.com>

Examples

```
is.glottolog(c('Kabardian', 'Russian'))
is.glottolog('Buyaka')

## Not run:
# Add warning message with suggestions
is.glottolog(c('Adyge', 'Russian'), response = TRUE)
# > FALSE TRUE
# Warning message:
# In is.glottolog(c('Kabardia', 'Russian'), response = TRUE) :
# Language Kabardia is absent in our version of the Glottolog database.
# Did you mean Kabardian, Greater Kabardian?

## End(Not run)
```

iso.gltc

Get ISO 639–3 code by Glottocode

Description

Takes any vector of Glotocodes and returns ISO code.

Usage

```
iso.gltc(x)
```

Arguments

x A character vector of Glottocodes.

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [area.lang](#), [lat.lang](#), [long.lang](#)

Examples

```
iso.gltc('adyg1241')
iso.gltc(c('adyg1241', 'udii1243'))
```

| | |
|----------|---------------------------------------|
| iso.lang | <i>Get ISO 639-3 code by language</i> |
|----------|---------------------------------------|

Description

Takes any vector of languages and returns ISO code.

Usage

```
iso.lang(x)
```

Arguments

x A character vector of the languages (can be written in lower case)

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [area.lang](#), [country.lang](#), [gltc.lang](#), [lat.lang](#), [long.lang](#), [subc.lang](#), [url.lang](#)

Examples

```
iso.lang('Kabardian')  
iso.lang(c('Kabardian', 'Udi'))
```

| | |
|-----------|--|
| iso3.iso1 | <i>Get ISO 639-3 code from ISO 639-1</i> |
|-----------|--|

Description

Takes any vector of ISO 639-1 codes and returns ISO 639-3 code.

Usage

```
iso3.iso1(x)
```

Arguments

x A character vector of ISO 639-3 codes.

Author(s)

Ekaterina Zalivina <zalivina01@mail.ru>

See Also

[aff.lang](#), [area.lang](#), [lat.lang](#), [long.lang](#)

Examples

```
iso3.iso1('bs')
iso3.iso1(c('co', 'it', 'ar'))
```

iso_639

ISO 639-3 is a set of codes that defines three-letter identifiers for all known human languages.

Description

ISO 639 provides three language code sets: one is a two-letter code (ISO 639-1) and two others are three-letter codes (ISO 639-2 and ISO 639-3) for the representation of names of languages. ISO 639-1 was devised primarily for use in terminology, lexicography and linguistics. ISO 639-2 was devised primarily for use in terminology and bibliography. ISO 639-3 was devised to provide a comprehensive set of identifiers for all languages for use in a wide range of applications, including linguistics, lexicography and internationalization of information systems. It attempts to represent all known full languages.

Usage

iso_639

Format

A data frame with 188 rows and 5 variables:

ISO_639_3 The three-letter 639-3 identifier

ISO_639_2_B Equivalent 639-2 identifier of the bibliographic applications code set

ISO_639_2_T Equivalent 639-2 identifier of the terminology applications code set

ISO_639_1 Equivalent 639-1 identifier

Ref_Name Reference language name

Details

(Available online at <https://iso639-3.sil.org/>, Accessed on 2022-05-23.)

Source

<https://iso639-3.sil.org/>

lang.aff *Get languages by affiliation*

Description

Takes any vector of affiliations and returns languages.

Usage

```
lang.aff(x, include.dialects = FALSE, list = FALSE)
```

Arguments

| | |
|------------------|--|
| x | A character vector of the affiliations (can be written in lower case) |
| include.dialects | logical. If TRUE, it returns all languages and dialects, if FALSE it returns only languages. |
| list | logical. If TRUE, it returns a list of languages, if FALSE it returns a named vector. |

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[lang.iso](#)

Examples

```
lang.aff('Slavic')
lang.aff(c('Slavic', 'Celtic'))
lang.aff(c('Slavic', 'Celtic'), list = TRUE)
```

lang.country *Get language by country*

Description

Takes any vector of countries and returns languages.

Usage

```
lang.country(x, list = TRUE)
```

Arguments

`x` character vector of the countries (in alpha-2 ISO codes)
`list` logical. If TRUE, it returns a list of languages, if FALSE it returns a named vector.

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [country.lang](#), [gltc.lang](#), [iso.lang](#), [lat.lang](#), [long.lang](#), [subc.lang](#), [url.lang](#)

Examples

```
lang.country('AD')  
lang.country(c('AD', 'AE'))
```

lang.gltc

Get language by Glottocode

Description

Takes any vector of Glottocodes and returns languages.

Usage

```
lang.gltc(x)
```

Arguments

`x` A character vector of the Glottocodes.

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[lang.aff](#)

Examples

```
lang.gltc('adyg1241')  
lang.gltc(c('adyg1241', 'udii1243'))
```

| | |
|----------|---------------------------------------|
| lang.iso | <i>Get language by ISO 639-3 code</i> |
|----------|---------------------------------------|

Description

Takes any vector of ISO codes and returns languages.

Usage

```
lang.iso(x)
```

Arguments

x A character vector of the ISO codes.

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[lang.aff](#)

Examples

```
lang.iso('ady')
lang.iso(c('ady', 'rus'))
```

| | |
|----------|---------------------------------|
| lat.lang | <i>Get latitude by language</i> |
|----------|---------------------------------|

Description

Takes any vector of languages and returns latitude.

Usage

```
lat.lang(x)
```

Arguments

x A character vector of the languages (can be written in lower case)

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [area.lang](#), [country.lang](#), [gltc.lang](#), [iso.lang](#), [long.lang](#), [subc.lang](#), [url.lang](#)

Examples

```
lat.lang('Kabardian')
long.lang('Kabardian')
lat.lang(c('Kabardian', 'Russian'))
long.lang(c('Kabardian', 'Russian'))
```

level.lang

Get a level of language by language

Description

Takes any vector of languages and returns a level of language.

Usage

```
level.lang(x)
```

Arguments

x character vector of the languages (can be written in lower case)

Author(s)

Sasha Shakhnova

See Also

[aff.lang](#), [country.lang](#), [gltc.lang](#), [iso.lang](#), [lat.lang](#), [long.lang](#), [subc.lang](#), [url.lang](#)

Examples

```
level.lang('Russian Sign Language')
level.lang(c('Archi', 'Chechen'))
```

| | |
|-----------|----------------------------------|
| long.lang | <i>Get longitude by language</i> |
|-----------|----------------------------------|

Description

Takes any vector of languages and returns longitude.

Usage

```
long.lang(x, map.orientation = "Pacific")
```

Arguments

| | |
|-----------------|---|
| x | A character vector of the languages (can be written in lower case) |
| map.orientation | A character vector with values "Pacific" and "Atlantic". It distinguishes Pacific-centered and Atlantic-centered maps. By default is "Pacific". |

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [area.lang](#), [country.lang](#), [gltc.lang](#), [iso.lang](#), [lat.lang](#), [subc.lang](#), [url.lang](#)

Examples

```
lat.lang('Kabardian')
long.lang('Kabardian')
lat.lang(c('Kabardian', 'Russian'))
long.lang(c('Kabardian', 'Russian'))
long.lang(c('Kabardian', 'Aleut'), map.orientation = "Pacific")
```

| | |
|-------------|---------------------|
| map.feature | <i>Create a map</i> |
|-------------|---------------------|

Description

Map a set of languages and color them by feature or two sets of features.

Usage

```
map.feature(  
  languages,  
  features = "",  
  label = "",  
  popup = "",  
  latitude = NA,  
  longitude = NA,  
  label.hide = TRUE,  
  label.fsize = 15,  
  label.font = "sans-serif",  
  label.position = "right",  
  label.emphasize = list(NULL, "black"),  
  shape = NULL,  
  shape.size = 20,  
  pipe.data = NULL,  
  shape.color = "black",  
  stroke.features = NULL,  
  point.cluster = FALSE,  
  density.estimation = NULL,  
  density.method = "fixed distance",  
  density.estimation.color = NULL,  
  density.estimation.opacity = 0.6,  
  density.points = TRUE,  
  density.width = NULL,  
  density.legend = TRUE,  
  density.legend.opacity = 1,  
  density.legend.position = "bottomleft",  
  density.title = "",  
  density.control = FALSE,  
  isogloss = NULL,  
  isogloss.color = "black",  
  isogloss.opacity = 0.2,  
  isogloss.line.width = 3,  
  isogloss.width = NULL,  
  color = NULL,  
  stroke.color = NULL,  
  image.url = NULL,  
  image.width = 100,  
  image.height = 100,  
  image.X.shift = 0,  
  image.Y.shift = 0,  
  title = NULL,  
  stroke.title = NULL,  
  control = "",  
  legend = TRUE,  
  legend.opacity = 1,  
  legend.position = "topright",
```

```

stroke.legend = TRUE,
stroke.legend.opacity = 1,
stroke.legend.position = "bottomleft",
width = 5,
stroke.radius = 9.5,
opacity = 1,
stroke.opacity = 1,
scale.bar = TRUE,
scale.bar.position = "bottomleft",
minimap = FALSE,
minimap.position = "bottomright",
minimap.width = 150,
minimap.height = 150,
facet = NULL,
tile = "OpenStreetMap.Mapnik",
tile.name = NULL,
tile.opacity = 1,
zoom.control = FALSE,
zoom.level = NULL,
rectangle.lng = NULL,
rectangle.lat = NULL,
rectangle.color = "black",
line.lng = NULL,
line.lat = NULL,
line.type = "standard",
line.color = "black",
line.opacity = 0.8,
line.label = NULL,
line.width = 3,
graticule = NULL,
minichart = "bar",
minichart.data = NULL,
minichart.time = NULL,
minichart.labels = FALSE,
map.orientation = "Pacific",
radius = NULL
)

```

Arguments

| | |
|------------|---|
| languages | character vector of languages (can be written in lower case) |
| features | character vector of features |
| label | character vector of strings that will appear near points |
| popup | character vector of strings that will appear in pop-up window |
| latitude | numeric vector of latitudes |
| longitude | numeric vector of longitudes |
| label.hide | logical. If FALSE, labels are displayed allways. If TRUE, labels are displayed on mouse over. By default is TRUE. |

| | |
|----------------------------|--|
| label.fsize | numeric value of the label font size. By default is 14. |
| label.font | string with values of generic family: "serif", "sans-serif", "monospace", or font name e. g. "Times New Roman" |
| label.position | the position of labels: "left", "right", "top", "bottom" |
| label.emphasize | is the list. First argument is a vector of points in dataframe that should be emphasized. Second argument is a string with a color for emphasis. |
| shape | <ol style="list-style-type: none"> 1. if TRUE, creates icons (up to five categories) for values in the features variable; 2. it also could be a vector of any strings that represents the levels of the features variable; 3. it also could be a string vector that represents the number of observations in dataset. |
| shape.size | size of the shape icons |
| pipe.data | this variable is important, when you use map.feature with dplyr pipes. Expected usage: pipe.data = . |
| shape.color | color of the shape icons |
| stroke.features | additional independent stroke features |
| point.cluster | logical. If TRUE, points will be united into clusters. |
| density.estimation | additional independent features, used for density estimation |
| density.method | string with one of the two methods: "kernel density estimation" or "fixed distance" (default) |
| density.estimation.color | vector of density polygons' colors |
| density.estimation.opacity | a numeric vector of density polygons opacity. |
| density.points | logical. If FALSE, it doesn't show points in polygons. |
| density.width | for density.method = "fixed distance" it is a numeric measure (1 is 1km). For density.method = "kernel density estimation" it is a vector with two measures (first is latitude, second is longitude). Defaults are normal reference bandwidth (see bandwidth.nrd). |
| density.legend | logical. If TRUE, function show legend for density features. By default is FALSE. |
| density.legend.opacity | a numeric vector of density-legend opacity. |
| density.legend.position | the position of the legend: "topright", "bottomright", "bottomleft", "topleft" |
| density.title | title of a density-feature legend |
| density.control | logical. If TRUE, function show layer control buttons for density plot. By default is FALSE |

| | |
|------------------------|--|
| isogloss | dataframe with corresponding features |
| isogloss.color | vector of isoglosses' colors |
| isogloss.opacity | a numeric vector of density polygons opacity. |
| isogloss.line.width | a numeric value for line width |
| isogloss.width | for density.method = "fixed distance" it is a numeric measure (1 is 1km). For density.method = "kernel density estimation" it is a vector with two measures (first is latitude, second is longitude). Defaults are normal reference bandwidth (see bandwidth.nrd). |
| color | vector of colors or palette. The color argument can be (1) a character vector of RGM or named colors; (2) the name of an RColorBrewer palette; (3) the full name of a viridis palette; (4) a function that receives a single value between 0 and 1 and returns a color. For more examples see colorNumeric |
| stroke.color | vector of stroke colors |
| image.url | character vector of URLs with an images |
| image.width | numeric vector of image widths |
| image.height | numeric vector of image heights |
| image.X.shift | numeric vector of image's X axis shift relative to the latitude-longitude point |
| image.Y.shift | numeric vector of image's Y axis shift relative to the latitude-longitude point |
| title | title of a legend. |
| stroke.title | title of a stroke-feature legend. |
| control | vector of grouping values that make it possible to create control panel that can turn off/on some points on the map. |
| legend | logical. If TRUE, function show legend. By default is TRUE. |
| legend.opacity | a numeric vector of legend opacity. |
| legend.position | the position of the legend: "topright", "bottomright", "bottomleft", "topleft" |
| stroke.legend | logical. If TRUE, function show stroke.legend. By default is FALSE. |
| stroke.legend.opacity | a numeric vector of stroke.legend opacity. |
| stroke.legend.position | the position of the stroke.legend: "topright", "bottomright", "bottomleft", "topleft" |
| width | a numeric vector of radius for circles or width for barcharts in minicharts. |
| stroke.radius | a numeric vector of stroke radii for the circles. |
| opacity | a numeric vector of marker opacity. |
| stroke.opacity | a numeric vector of stroke opacity. |
| scale.bar | logical. If TRUE, function shows scale-bar. By default is TRUE. |
| scale.bar.position | the position of the scale-bar: "topright", "bottomright", "bottomleft", "topleft" |
| minimap | logical. If TRUE, function shows mini map. By default is FALSE. |

| | |
|-------------------------------|--|
| <code>minimap.position</code> | the position of the minimap: "topright", "bottomright", "bottomleft", "topleft" |
| <code>minimap.width</code> | The width of the minimap in pixels. |
| <code>minimap.height</code> | The height of the minimap in pixels. |
| <code>facet</code> | character vector that provide a grouping variable. If it is no NULL, then as a result a list of leaflets for <code>sync</code> or <code>latticeView</code> functions from <code>mapview</code> package is returned. |
| <code>tile</code> | a character vector with a map tiles, popularized by Google Maps. See here for the complete set. |
| <code>tile.name</code> | a character vector with a user's map tiles' names. |
| <code>tile.opacity</code> | numeric value from 0 to 1 denoting opacity of the tile. |
| <code>zoom.control</code> | logical. If TRUE, function shows zoom controls. By default is FALSE. |
| <code>zoom.level</code> | a numeric value of the zoom level. |
| <code>rectangle.lng</code> | vector of two longitude values for rectangle. |
| <code>rectangle.lat</code> | vector of two latitude values for rectangle. |
| <code>rectangle.color</code> | vector of rectangle border color. |
| <code>line.lng</code> | vector of two (or more) longitude values for line. |
| <code>line.lat</code> | vector of two (or more) latitude values for line. |
| <code>line.type</code> | a character string indicating which type of line is to be computed. One of "standard" (default), or "logit". The first one should be combined with the arguments <code>line.lat</code> and <code>line.lng</code> and provide simple lines. Other variant "logit" is the decision boundary of the logistic regression made using longitude and latitude coordinates (works only if feature argument have two levels). |
| <code>line.color</code> | vector of line color. |
| <code>line.opacity</code> | a numeric vector of line opacity. |
| <code>line.label</code> | character vector that will appear near the line. |
| <code>line.width</code> | a numeric vector of line width. |
| <code>graticule</code> | a numeric vector for graticule spacing in map units between horizontal and vertical lines. |
| <code>minichart</code> | citation from <code>leaflet.minicharts</code> package: "Possible values are "bar" for bar charts, "pie" for pie charts, "polar-area" and "polar-radius"." |
| <code>minichart.data</code> | citation from <code>leaflet.minicharts</code> package: "A numeric matrix with number of rows equal to the number of elements in <code>lng</code> or <code>lat</code> and number of column equal to the number of variables to represent. If parameter <code>time</code> is set, the number of rows must be equal to the length of <code>lng</code> times the number of unique time steps in the data." |
| <code>minichart.time</code> | citation from <code>leaflet.minicharts</code> package: "A vector with length equal to the number of rows in <code>chartdata</code> and containing either numbers representing time indices or dates or datetimes. Each unique value must appear as many times as the others. This parameter can be used when one wants to represent the evolution of some variables on a map." |

minichart.labels citation from leaflet.minicharts package: "Should values be displayed above chart elements."

map.orientation a character vector with values "Pacific" and "Atlantic". It distinguishes Pacific-centered and Atlantic-centered maps. By default is "Pacific".

radius deprecated argument

Author(s)

George Moroz <agricolamz@gmail.com>

Examples

```
map.feature(c("Kabardian", "Russian"))
```

 oto_mangueanIC

Oto-Manguean Inflectional Class Database Language identifiers

Description

Language identifiers from Oto-Manguean Inflectional Class Database (<https://oto-manguean.surrey.ac.uk/>). This dataset is created for `oto_mangueanIC.feature` function.

Usage

```
oto_mangueanIC
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 20 rows and 2 columns.

Details

#' @format A data frame with 20 rows and 2 variables:

Language.name Language names from Oto-Manguean Inflectional Class Database

language Language names from Glottolog database

 oto_mangueanIC.feature

Download Oto-Manguean Inflectional Class Database data

Description

This function downloads data from Oto-Manguean Inflectional Class Database (<https://oto-manguean.surrey.ac.uk/>) and creates a language column with the names from lingtypology database. You need the internet connection.

Usage

```
oto_mangueanIC.feature()
```

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [phoible.feature](#), [sails.feature](#), [uralex.feature](#), [valpal.feature](#), [wals.feature](#)

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#) # `oto_mangueanIC.feature()`

 phoible

Phoible glottolog - language correspondencies

Description

Language correspondencies for Phoible (<https://phoible.org/>). This dataset is created for [phoible.feature](#) function.

Usage

```
phoible
```

Format

A data frame with 2185 rows and 2 variables:

language language

Glottocode Glottocode

phoible.feature *Download PHOIBLE data*

Description

This function downloads data from PHOIBLE (<https://phoible.org/>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
phoible.feature(source = "all", na.rm = TRUE)
```

Arguments

| | |
|--------|---|
| source | A character vector that define with a source names from PHOIBLE (possible values: "all", "aa", "gm", "ph", "ra", "saphon", "spa", "upsid"). |
| na.rm | Logical. If TRUE function removes all languages not available in lingtypology database. By default is TRUE. |

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#)

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [oto_mangueanIC.feature](#), [sails.feature](#), [uralex.feature](#), [valpal.feature](#), [wals.feature](#)

Examples

```
# phoible.feature()
# phoible.feature(c('consonants', 'vowels'), source = "UPSID")
```

phonological_profiles *Number of consonants and presence of ejectives*

Description

Number of consonants and presence of ejectives

Usage

```
phonological_profiles
```

Format

A data frame with 19 rows and 4 variables:

language language name

consonants number of consonants. Based on UPSID database.

vowels number of vowels. Based on UPSID database.

ejectives presence of ejective sounds.

tone presence of tone.

stress presence of stress.

long_vowels presence of long vowels.

polygon.points_fd *Get polygons from fixed distance circles around coordinates*

Description

This function is based on this answer: <https://www.r-bloggers.com/merging-spatial-buffers-in-r/>

Usage

```
polygon.points_fd(latitude, longitude, width)
```

Arguments

| | |
|-----------|--|
| latitude | numeric vector of latitudes |
| longitude | numeric vector of longitudes |
| width | radius for creating polygons around points |

polygon.points_kde *Get kernel density estimation polygon from coordinates*

Description

This function is based on this answer: <https://gis.stackexchange.com/a/203623/>

Usage

```
polygon.points_kde(latitude, longitude, latitude.width, longitude.width)
```

Arguments

| | |
|-----------------|---|
| latitude | numeric vector of latitudes |
| longitude | numeric vector of longitudes |
| latitude.width | bandwidths for latitude values. Defaults to normal reference bandwidth (see bandwidth.nrd). |
| longitude.width | bandwidths for longitude values. Defaults to normal reference bandwidth (see bandwidth.nrd). |

| | |
|-----------|------------------|
| providers | <i>Providers</i> |
|-----------|------------------|

Description

List of all providers with their variations taken from leaflet package

Usage

```
providers
```

Format

A list of characters

Source

<https://github.com/leaflet-extras/leaflet-providers/blob/master/leaflet-providers.js>

| | |
|---------------|----------------------------|
| sails.feature | <i>Download SAILS data</i> |
|---------------|----------------------------|

Description

This function downloads data from SAILS (<https://sails.clld.org/>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
sails.feature(features, na.rm = TRUE)
```

Arguments

| | |
|-----------------------|---|
| <code>features</code> | A character vector that define with a feature ids from SAILS (e. g. "and1", "argex4-1-3"). |
| <code>na.rm</code> | Logical. If TRUE function removes all languages not available in lingtypology database. By default is TRUE. |

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#)

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [uralex.feature](#), [valpal.feature](#), [wals.feature](#)

Examples

```
# sails.feature(c("and1", "and11"))
```

| | |
|------------------|--|
| soundcomparisons | <i>SOUNDCOMPARISONS's Language identifiers</i> |
|------------------|--|

Description

Language identifiers from SOUNDCOMPARISONS. This dataset is created for [soundcomparisons.feature](#) function.

Usage

```
soundcomparisons
```

Format

An object of class `data.frame` with 556 rows and 3 columns.

Details

```
#' @format A data frame with 556 rows and 2 variables:
```

LanguageName SOUNDCOMPARISONS language identifier

LanguageId Language Id

 soundcomparisons.feature

Download SOUNDCOMPARISONS data

Description

This function downloads data from SOUNDCOMPARISONS and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
soundcomparisons.feature(word)
```

Arguments

| | |
|------|--|
| word | A character vector that define with a feature ids from SOUNDCOMPARISONS (e. g. "one", "sharp_fem", "near_neut", "on_the_left", "I_will_give", "write_ipv_sg", "your_pl_pl"). |
|------|--|

Author(s)

Anna Smirnova

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [eurasianphonology.feature](#), [eurasianphonology.feature](#)

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#)

Examples

```
# soundcomparisons.feature(c("sun", "house"))
```

 subc.lang

Get subclassification by language

Description

Takes any vector of languoids and returns subclassification in the Newick tree format.

Usage

```
subc.lang(x)
```

Arguments

x A character vector of the languoids (can be written in lower case)

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [area.lang](#), [country.lang](#), [gltc.lang](#), [iso.lang](#), [lat.lang](#), [long.lang](#)

Examples

```
subc.lang('Korean')
subc.lang(c('Korean', 'Lechitic'))
```

uralex

UraLex's Language identifiers

Description

Language identifiers from UraLex (<https://github.com/lexibank/uralex/>). This dataset is created for [uralex.feature](#) function.

Usage

```
uralex
```

Format

A data frame with 27 rows and 3 variables:

uralex.name language name from database

glottocode Glottocodes

language language from lingtypology

| | |
|----------------|-----------------------------|
| uralex.feature | <i>Download UraLex data</i> |
|----------------|-----------------------------|

Description

This function downloads data from UraLex (<https://github.com/lexibank/uralex/>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
uralex.feature(na.rm = TRUE)
```

Arguments

| | |
|-------|---|
| na.rm | Logical. If TRUE function removes all languages not available in lingtypology database. By default is TRUE. |
|-------|---|

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [valpal.feature](#), [vanuatu.feature](#), [wals.feature](#)

Examples

```
# uralex.feature()
```

| | |
|----------|---|
| url.lang | <i>Make a url-link to glottolog page for a language</i> |
|----------|---|

Description

Takes any vector of languages and returns links to glottolog pages.

Usage

```
url.lang(x, popup = "")
```

Arguments

| | |
|-------|--|
| x | A character vector of languages (can be written in lower case) |
| popup | character vector of strings that will appear in pop-up window of the function <code>map.feature</code> |

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[aff.lang](#), [area.lang](#), [country.lang](#), [gltc.lang](#), [iso.lang](#), [lat.lang](#), [long.lang](#), [subc.lang](#)

Examples

```
url.lang('Korean')
url.lang(c('Gangou', 'Hachijo', 'West Circassian', 'Ganai'))
```

valpal.feature

Download ValPaL data

Description

This function downloads data from ValPal (<https://valpal.info>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
valpal.feature(na.rm = FALSE)
```

Arguments

`na.rm` Logical. If TRUE function removes all languages not available in lingtypology database. By default is FALSE.

Author(s)

George Moroz <agricolamz@gmail.com>

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [vanuatu.feature](#), [wals.feature](#)

Examples

```
# valpal.feature()
```

| | |
|-----------------|-------------------------------------|
| vanuatu.feature | <i>Download Vanuatu Voices data</i> |
|-----------------|-------------------------------------|

Description

This function downloads data from Vanuatu Voices (<https://vanuatuvoices.clld.org/>). You need the internet connection.

Usage

```
vanuatu.feature(features, na.rm = TRUE)
```

Arguments

| | |
|----------|--|
| features | A vector with parameters from Concepts (https://vanuatuvoices.clld.org/parameters) |
| na.rm | Logical. If TRUE function removes all languages not available in lingtypology database. By default is TRUE. |

Author(s)

Mikhail Leonov

See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [wals.feature](#)

| | |
|------|------------------------------------|
| wals | <i>WALS's Language identifiers</i> |
|------|------------------------------------|

Description

Language identifiers from WALS (<https://wals.info/>). This dataset is created for [wals.feature](#) function.

Usage

```
wals
```

Format

A data frame with 2678 rows and 2 variables:

wals.code WALS language identifier

glottocode Glottocode

`wals.feature`*Download WALs data*

Description

This function downloads data from WALs (<https://wals.info/>) and changes language names to the names from lingtypology database. You need the internet connection.

Usage

```
wals.feature(features, na.rm = TRUE)
```

Arguments

| | |
|-----------------------|---|
| <code>features</code> | A character vector that define with a feature ids from WALs (e. g. "1a", "21b"). |
| <code>na.rm</code> | Logical. If TRUE function removes all languages not available in lingtypology database. By default is TRUE. |

Author(s)

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See Also

[abvd.feature](#), [afbo.feature](#), [autotyp.feature](#), [bivaltyp.feature](#), [eurasianphonology.feature](#), [oto_mangueanIC.feature](#), [phoible.feature](#), [sails.feature](#), [soundcomparisons.feature](#), [uralex.feature](#), [valpal.feature](#), [vanuatu.feature](#)

Examples

```
# wals.feature(c("1a", "20a"))
```

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