Package 'i18n'

September 7, 2022

Type Package

```
Version 0.2.0
Title Internationalization Data from the 'Unicode CLDR' in Tabular
Description Up-to-date data from the 'Unicode CLDR Project' (where 'CLDR'
      stands for 'Common Locale Data Repository') are available here as a series
      of easy-to-parse datasets. Several functions are provided for extracting
      key elements from the tabular datasets.
License MIT + file LICENSE
URL https://github.com/rich-iannone/i18n
BugReports https://github.com/rich-iannone/i18n/issues
Encoding UTF-8
LazyData true
LazyDataCompression xz
RoxygenNote 7.2.1
Depends R (>= 3.2)
Imports magrittr
Suggests lintr, testthat (>= 3.0.0)
Config/testthat/edition 3
NeedsCompilation no
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Repository CRAN
Date/Publication 2022-09-07 06:20:02 UTC
```

2 all_currency_codes

R topics documented:

Index		20
	units	2:
	tz_metazone_users	
	tz_metazone_names	
	tz_map	
	tz_formats	
	tz_exemplar	
	tz_bcp_id	
	script_metadata	
	numbers	
	locale_names	
	layout	
	element_lists	
	delimiters	
	default_locales	
	day_periods	
	dates_generic	
	dates	
	currencies	
	cldr_numbers	
	cldr_locale_names	
	cldr_dates	
	cldr_currencies	
	cldr_character_labels	
	cldr_characters	
	character_labels	
	characters	
	all_locales	3
	all_currency_codes	2

Description

This is a vector of the 305 currency codes that are used in the currencies dataset within the **i18n** package.

Usage

all_currency_codes

Format

An object of class character of length 305.

all_locales 3

all_locales

A vector containing all locale names

Description

This is a vector of the 574 locale names that are used throughout the tabular datasets within the **i18n** package.

Usage

all_locales

Format

An object of class character of length 574.

characters

A table with localized character data

Description

The characters table contains localized character data across 574 locales. There are 574 rows and the following 12 columns:

- locale(character)
- exemplar_characters (character)
- auxiliary (character)
- index (character)
- numbers (character)
- punctuation (character)
- more_info(character)
- ellipsis(named list [length of 6])
- leninent_scope_general (named list [length of 9])
- leninent_scope_date (named list [length of 2])
- leninent_scope_number (named list [length of 3])
- stricter_scope_number (named list [length of 2])

Usage

characters

Format

An object of class tbl_df (inherits from tbl, data.frame) with 574 rows and 12 columns.

4 cldr_characters

character_labels

A table with localized character labels and descriptors

Description

The character_labels table contains localized data for character labels across 574 locales. There are 574 rows and the following 3 columns:

- locale (character)
- character_label_patterns (named list [variable length])
- character_labels(named list [variable length])

Usage

character_labels

Format

An object of class tbl_df (inherits from tbl, data.frame) with 574 rows and 3 columns.

cldr_characters

Get localized values from the characters dataset

Description

The characters table contains information on the usage of characters and exemplar character sets across 574 locales. The cldr_characters() function allows one to extract element values from the table by supplying the locale and one of the following element names:

- "exemplar_characters"
- "auxiliary"
- "index"
- "numbers"
- "punctuation"
- "more_info"
- "ellipsis"
- "leninent_scope_general"
- "leninent_scope_date"
- "leninent_scope_number"
- "stricter_scope_number"

cldr_character_labels 5

Usage

```
cldr_characters(
  locale = "en",
  element = characters_elements$exemplar_characters)
```

Arguments

locale The locale ID for which to obtain the data from the characters table.

element The element from which information will be obtained for the specified locale.

Value

Either a named list or a length one character vector, depending on the element value.

Description

The character_labels table contains information on character patterns and character labels across 574 locales. The cldr_character_labels() function allows one to extract element values from the table by supplying the locale and one of the following element names:

- "patterns": corresponds to the character_label_patterns column in character_labels
- "labels": is the character_labels column in character_labels

Usage

```
cldr_character_labels(locale = "en", element = c("patterns", "labels"))
```

Arguments

locale The locale ID for which to obtain the data from the character_labels table.

element The element from which information will be obtained for the specified locale.

Value

A named list.

6 cldr_currencies

cldr_currencies

Get a single localized value from the currencies dataset

Description

The currencies table contains information of currency codes and localized display names and symbols across 574 locales. The cldr_currencies() function allows one to extract a single element value from the table by supplying the locale, the currency code (currency), and one of the following element names:

```
• "currency_symbol"
```

- "currency_symbol_narrow"
- "currency_display_name"
- "currency_display_name_count_1"
- "currency_display_name_count_other"

Usage

```
cldr_currencies(
  locale = "en",
  currency = currency_code_list$USD,
  element = currencies_elements$currency_symbol
)
```

Arguments

locale The locale ID for which to obtain the data from the currencies table.

currency The currency code (e.g., "USD", "EUR", etc.). A valid set of currency codes can

be accessed through the currency_code_list object.

element The element from which information will be obtained for the specified locale.

A valid set of currency elements can be accessed through the currencies_elements

list object.

Value

A length one character vector.

Examples

If you would like to get the currency display name for the British Pound ("GBP") currency while in the "de" locale, the following invocation of cldr_currencies() can be used.

```
cldr_currencies(
  locale = "de",
  currency = currency_code_list$GBP,
  element = currencies_elements$currency_display_name
)
```

cldr_dates 7

#> [1] "Britisches Pfund"

cldr_dates

Get a single localized value from the dates dataset

Description

The dates table contains information on how to express dates and this data is localized across 574 locales. The cldr_dates() function allows one to extract a named list using a locale and a specific element. The element values are:

- "months_format_abbrev"
- "months_format_narrow"
- "months_format_wide"
- "days_standalone_narrow"
- "days_standalone_short"
- "days_standalone_wide"
- "quarters_format_abbrev"
- "quarters_format_narrow"
- "quarters_format_wide"
- "quarters_standalone_abbrev"
- "quarters_standalone_narrow"
- "quarters_standalone_wide"
- "dayperiods_format_abbrev"
- "dayperiods_format_narrow"
- "dayperiods_format_wide"
- "dayperiods_standalone_abbrev"
- "dayperiods_standalone_narrow"
- "dayperiods_standalone_wide"
- "eras_abbrev"
- "eras_names"
- "eras_narrow"
- "date_formats"
- "date_skeletons"
- "time_formats"
- "time_skeletons"
- "date_time_available_formats"
- "date_time_append_items"
- "date_time_interval_formats"

8 cldr_locale_names

Usage

```
cldr_dates(locale = "en", element = dates_elements$months_format_abbrev)
```

Arguments

locale The locale ID for which to obtain the data from the dates table.

element The element from which information will be obtained for the specified locale.

Value

A named list.

cldr_locale_names

Get a localized list of locale names from the locale_names dataset

Description

The locale_names table contains information on how to express components of locale codes and this is localized across 574 locales. The cldr_locale_names() function allows one to extract a named list using a locale and one of the following element names:

- "langs": corresponds to the lang_names column in locale_names
- "scripts": is the script_names column in locale_names
- "territories": is territory_names
- "variants": is variant_names

Usage

```
cldr_locale_names(locale = "en", element = locale_names_elements$lang_names)
```

Arguments

locale The locale ID for which to obtain the data from the locale_names table.

element The element from which information will be obtained for the specified locale.

A valid set of locale_names elements can be accessed through the locale_names_elements

list object.

Value

A named list.

cldr_numbers 9

cldr_numbers

Get a single localized value from the numbers dataset

Description

The numbers table contains localization data for number usage and this data is available for 574 locales. The cldr_numbers() function allows one to extract a named list using a locale and a specific element. The element values are:

```
• "default_numbering_system"
```

- "other_numbering_systems"
- "minimum_grouping_digits"
- "decimal"
- "group"
- "list"
- "percent_sign"
- "plus_sign"
- "minus_sign"
- "approx_sign"
- "exp_sign"
- "sup_exp"
- "per_mille"
- "infinity"
- "nan"
- "time_sep"
- "approx_pattern"
- "at_least_pattern"
- "at_most_pattern"
- "range_pattern"
- "decimal_format"
- "sci_format"
- "percent_format"
- "currency_format"
- "accounting_format"

Usage

```
cldr_numbers(
  locale = "en",
  element = numbers_elements$default_numbering_system
)
```

10 currencies

Arguments

locale The locale ID for which to obtain the data from the numbers table.

element The element from which information will be obtained for the specified locale.

Value

Either a named list or a length one character vector, depending on the element value.

currencies

A table with localized currency attributes and descriptors

Description

The currencies table contains localized data for number-related entities across 574 locales. This table has 173,013 rows, one per distinct combination of locale and currency (currency_code), and the following 7 columns:

- locale (character)
- currency_code (character)
- currency_display_name (character)
- currency_symbol (character)
- currency_symbol_narrow(character)
- currency_display_name_count_1 (character)
- currency_display_name_count_other (character)

Usage

currencies

Format

An object of class tbl_df (inherits from tbl, data.frame) with 175070 rows and 7 columns.

dates 11

dates

A table with localized date attributes and descriptors

Description

The dates table contains localized data for constructing dates and times across 574 locales. There are 574 rows and the following 38 columns:

- locale (character)
- months_format_abbrev (named list [length of 12])
- months_format_narrow(named list [length of 12])
- months_format_wide (named list [length of 12])
- months_standalone_abbrev (named list [length of 12])
- months_standalone_narrow(named list [length of 12])
- months_standalone_wide (named list [length of 12])
- days_format_abbrev (named list [length of 7])
- days_format_narrow(named list [length of 7])
- days_format_short(named list [length of 7])
- days_format_wide (named list [length of 7])
- days_standalone_abbrev (named list [length of 7])
- days_standalone_narrow(named list [length of 7])
- days_standalone_short (named list [length of 7])
- days_standalone_wide (named list [length of 7])
- quarters_format_abbrev (named list [length of 4])
- quarters_format_narrow(named list [length of 4])
- quarters_format_wide (named list [length of 4])
- quarters_standalone_abbrev (named list [length of 4])
- quarters_standalone_narrow(named list [length of 4])
- quarters_standalone_wide (named list [length of 4])
- dayperiods_format_abbrev (named list [variable length])
- dayperiods_format_narrow(named list [variable length])
- dayperiods_format_wide (named list [variable length])
- dayperiods_standalone_abbrev(named list [variable length])
- dayperiods_standalone_narrow(named list [variable length])
- dayperiods_standalone_wide (named list [variable length])
- eras_abbrev (named list [length of 4])
- eras_names (named list [length of 4])
- eras_narrow(named list [length of 4])

12 dates_generic

- date_formats(named list [variable length])
- date_skeletons (named list [length of 4])
- time_formats(named list [variable length])
- time_skeletons (named list [variable length])
- date_time_patterns (named list [length of 4])
- date_time_available_formats(named list [variable length])
- date_time_append_items (named list [length of 11])
- date_time_interval_formats(named list [variable length])

Usage

dates

Format

An object of class tbl_df (inherits from tbl, data.frame) with 574 rows and 38 columns.

dates_generic

A table with localized generic date attributes and descriptors

Description

The dates_generic table contains localized data for constructing dates and times across 574 locales. There are 574 rows and the following 38 columns:

- locale (character)
- months_format_abbrev (named list [length of 12])
- months_format_narrow(named list [length of 12])
- months_format_wide (named list [length of 12])
- months_standalone_abbrev (named list [length of 12])
- months_standalone_narrow(named list [length of 12])
- months_standalone_wide (named list [length of 12])
- days_format_abbrev (named list [length of 7])
- days_format_narrow(named list [length of 7])
- days_format_short(named list [length of 7])
- days_format_wide (named list [length of 7])
- days_standalone_abbrev (named list [length of 7])
- days_standalone_narrow(named list [length of 7])
- days_standalone_short (named list [length of 7])
- days_standalone_wide (named list [length of 7])
- quarters_format_abbrev (named list [length of 4])

dates_generic 13

- quarters_format_narrow(named list [length of 4])
- quarters_format_wide (named list [length of 4])
- quarters_standalone_abbrev (named list [length of 4])
- quarters_standalone_narrow(named list [length of 4])
- quarters_standalone_wide (named list [length of 4])
- dayperiods_format_abbrev(named list [variable length])
- dayperiods_format_narrow(named list [variable length])
- dayperiods_format_wide (named list [variable length])
- dayperiods_standalone_abbrev(named list [variable length])
- dayperiods_standalone_narrow(named list [variable length])
- dayperiods_standalone_wide(named list [variable length])
- eras_abbrev (named list [length of 4])
- eras_names (named list [length of 4])
- eras_narrow(named list [length of 4])
- date_formats(named list [variable length])
- date_skeletons(named list [length of 4])
- time_formats(named list [variable length])
- time_skeletons (named list [variable length])
- date_time_patterns (named list [length of 4])
- date_time_available_formats(named list [variable length])
- date_time_append_items (named list [length of 11])
- date_time_interval_formats(named list [variable length])

Usage

dates_generic

Format

An object of class tbl_df (inherits from tbl, data.frame) with 574 rows and 38 columns.

14 default_locales

day_periods

A table with rule sets for naming periods of a day

Description

The day_periods table contains rules for naming periods of time throughout a day. There are 519 rows that comprise a day period name and rule for a locale. There may be only two rows associated with a locale but many more if a locale has many names for periods of a day. The following columns are included:

- locale (character)
- period (character)
- from (character)
- to (character)
- at (character)

The period value provides an identifier for the period of time. For a given locale there may typically be "afternoon1" and "evening1" period identifiers. Some may have quite a few periods defined (perhaps with "morning1" and "morning2" rules). A period is either a block of time defined by the from and to columns, or, a set time (like "noon" and "midnight") found in the at column. The period values are typically obtained from this dataset in order to obtain localized text from the dates and dates_generic datasets (within the dayperiods_* columns).

Usage

day_periods

Format

An object of class tbl_df (inherits from tbl, data.frame) with 519 rows and 5 columns.

default_locales

A table containing a mapping of default locale names to base locales

Description

This is a table that contains base locale names (e.g., "en", "de") alongside their default locale names. This indicates that "en" maps to "en-US" and "de" should map to "de-DE". Throughout the **i18n** datasets, base names are used instead of their expanded equivalents.

There are 228 rows and the following 2 columns:

- default_locale (character)
- base_locale (character)

The default_locale column contains the expanded locale names (e.g., "en-US") that do not normally appear within the *CLDR* datasets but are valid aliases for the base locale names (e.g., "en") found in the base_locale column.

delimiters 15

Usage

```
default_locales
```

Format

An object of class tbl_df (inherits from tbl, data.frame) with 228 rows and 2 columns.

delimiters

A table with localized delimiter values

Description

The delimiters table contains localized information on the preferred and alternate sets of quotation marks across 574 locales. There are 574 rows and the following 5 columns:

- locale (character)
- quotation_start (character)
- quotation_end(character)
- alt_quotation_start (character)
- alt_quotation_end(character)

Usage

delimiters

Format

An object of class tbl_df (inherits from tbl, data.frame) with 574 rows and 5 columns.

element_lists

Element lists for different CLDR data tables

Description

Several element lists are available for use in the various cldr_*() functions. The list object names, the number of elements they hold, and the functions they nicely pair with are:

16 layout

Usage

```
locale_list

currency_code_list

locale_names_elements

currencies_elements

dates_elements

numbers_elements

characters_elements
```

Format

An object of class list of length 574.

An object of class list of length 305.

An object of class list of length 4.

An object of class list of length 5.

An object of class list of length 37.

An object of class list of length 26.

An object of class list of length 12.

Details

 $locale_list (574) -> several cldr_*() functions currency_code_list (305) -> cldr_currency() \\ currencies_elements (5) -> cldr_currency() locale_names_elements (4) -> cldr_locale_names() \\ dates_elements (28) -> cldr_dates() numbers_elements (26) -> cldr_numbers() characters_elements (12) -> cldr_characters()$

layout

A table with localized layout data

Description

The layout table contains data on text layout across 574 locales. There are 574 rows and the following 3 columns:

- locale (character)
- character_order (character)
- line_order (character)

locale_names 17

Usage

layout

Format

An object of class tbl_df (inherits from tbl, data.frame) with 574 rows and 3 columns.

locale_names

A table with localized language, script, and territory names

Description

The locale_names table contains localized names for languages, script names, names for territories, and names for variants. There are 574 rows and the following 5 columns:

- locale (character)
- lang_names (named list [variable length])
- script_names (named list [variable length])
- territory_names (named list [variable length])
- variant_names (named list [variable length])

The lang_names column contains named lists for all localized language names. The script_names column holds named lists for all localized script names, and territory_names has all of the localized territory names per locale. The variant_names list column containing named lists for all localized variant names.

Usage

locale_names

Format

An object of class tbl_df (inherits from tbl, data.frame) with 574 rows and 5 columns.

18 numbers

numbers

A table with localized numerical attributes and descriptors

Description

The numbers table contains localized data for number-related entities across 574 locales. This table has 574 rows (one per locale) and the following 26 columns:

- locale (character)
- default_numbering_system(character)
- other_numbering_systems (named list [variable length])
- minimum_grouping_digits (integer)
- decimal (character)
- group (character)
- list (character)
- percent_sign (character)
- plus_sign" (character)
- minus_sign (character)
- approx_sign (character)
- exp_sign (character)
- sup_exp (character)
- per_mille (character)
- infinity (character)
- nan (character)
- time_sep(character)
- approx_pattern (character)
- at_least_pattern (character)
- at_most_pattern (character)
- range_pattern (character)
- decimal_format (character)
- sci_format (character)
- percent_format (character)
- currency_format (character)
- accounting_format (character)

The first column, locale, is the locale name (e.g., "en", "de-AT", etc.). The remaining 25 columns will be explained in separate sections.

Usage

numbers

numbers 19

Format

An object of class tbl_df (inherits from tbl, data.frame) with 574 rows and 26 columns.

Default Numbering System

The default_numbering_system (*CLDR*: 'defaultNumberingSystem') column provides an element that indicates which numbering system should be used for presentation of numeric quantities in the given locale.

Other Numbering Systems

The other_numbering_systems (*CLDR*: 'otherNumberingSystems') column provides an element that defines general categories of numbering systems that are sometimes used in the given locale for formatting numeric quantities. These additional numbering systems are often used in very specific contexts, such as in calendars or for financial purposes. There are currently three defined categories, as follows:

native

Defines the numbering system used for the native digits, usually defined as a part of the script used to write the language. The native numbering system can only be a numeric positional decimal-digit numbering system, using digits with General_Category=Decimal_Number. In locales where the native numbering system is the default, it is assumed that the numbering system "latn" (Western Digits 0-9) is always acceptable, and can be selected using the "-nu" keyword as part of a Unicode locale identifier.

traditional

Defines the traditional numerals for a locale. This numbering system may be numeric or algorithmic. If the traditional numbering system is not defined, applications should use the native numbering system as a fallback.

finance

Defines the numbering system used for financial quantities. This numbering system may be numeric or algorithmic. This is often used for ideographic languages such as Chinese, where it would be easy to alter an amount represented in the default numbering system simply by adding additional strokes. If the financial numbering system is not specified, applications should use the default numbering system as a fallback.

The categories defined for other numbering systems can be used in a Unicode locale identifier to select the proper numbering system without having to know the specific numbering system by name. To select the Hindi language using the native digits for numeric formatting, use locale ID "hi-IN-u-nu-native". To select the Chinese language using the appropriate financial numerals, use locale ID: "zh-u-nu-finance". With the Tamil language using the traditional Tamil numerals, use locale ID "ta-u-nu-traditio". As a last example, to select the Arabic language using western digits 0-9, use locale ID "ar-u-nu-latn".

Minimum Grouping Digits

The minimum_grouping_digits (*CLDR*: 'minimumGroupingDigits') value can be used to suppress groupings below a certain value. This is used for languages such as Polish, where one would only write the grouping separator for values above 9999. The minimum_grouping_digits value contains the default for the locale.

20 numbers

Number Symbols

Number symbols define the localized symbols that are commonly used when formatting numbers in a given locale. These symbols can be referenced using a number formatting pattern.

The decimal (*CLDR*: 'decimal') symbol separates the integer and fractional part of the number. The group (*CLDR*: 'group') symbol separates clusters of integer digits to make large numbers more legible; commonly used for thousands (grouping size 3, e.g. "100,000,000") or in some locales, ten-thousands (grouping size 4, e.g. "1,0000,0000"). There may be two different grouping sizes: The primary grouping size used for the least significant integer group, and the secondary grouping size used for more significant groups; these are not the same in all locales (e.g. "12,34,56,789"). If a pattern contains multiple grouping separators, the interval between the last one and the end of the integer defines the primary grouping size, and the interval between the last two defines the secondary grouping size. All others are ignored, so "#,##,###,###" == "##,###"."

The list (*CLDR*: 'list') symbol is used to separate numbers in a list intended to represent structured data such as an array. It must be different from the decimal value. This list separator is for non-linguistic usage as opposed to the list patterns for linguistic lists (e.g. "Bob, Carol, and Ted").

The plus_sign (*CLDR*: 'plusSign') is the preferred symbol for expressing a positive value and the minus_sign (*CLDR*: 'minusSign') is for negative values. It can be used to produce modified patterns, so that "3.12" is formatted as "+3.12", for example. The standard number patterns (except for accounting notation) will contain the minus_sign, explicitly or implicitly. In the explicit pattern, the value of the plus_sign can be substituted for the value of the minus_sign to produce a pattern that has an explicit plus sign.

The approx_sign (*CLDR*: 'approximatelySign') element contains a symbol used to denote an approximate value. The symbol is substituted in place of the minus_sign using the same semantics as plus_sign substitution.

The exp_sign (*CLDR*: 'exponential') provides a symbol used for separating the mantissa and exponent values. The exponential notation in sup_exp (*CLDR*: 'superscriptingExponent') could alternatively be used to show a format like "1.23 × 104". The superscripting can use markup, such as ⁴ in HTML, or for the special case of Latin digits, use superscripted numeral characters.

The percent_sign (*CLDR*: 'percentSign') is a symbol used to indicate a percentage (1/100th) amount. If present, the value might require multiplication by 100 before formatting. The per_mille (*CLDR*: 'perMille') symbol used to indicate a per mille (1/1000th) amount. If present, the value might need to be multiplied by 1000 before formatting.

The infinity sign is provided in the infinity (*CLDR*: 'infinity') element. The nan element (*CLDR*: 'nan') has the NaN (not a number) sign. These elements both correspond to the IEEE bit patterns for infinity and NaN.

The time_sep (*CLDR*: 'timeSeparator') pattern allows the same time format to be used for multiple number systems when the time separator depends on the number system. For example, the time format for Arabic should be a colon when using the Latin numbering system, but when the Arabic numbering system is used, the traditional time separator in older print styles was often Arabic comma.

script_metadata 21

Miscellaneous Patterns

There are several miscellaneous patterns for special purposes. The approx_pattern (*CLDR*: 'approximately') indicates an approximate number, such as: "~99". With the pattern called at_most_pattern (*CLDR*: 'atMost') we can describe an upper limit. This indicates that, for example, there are 99 items or fewer. The at_least_pattern (*CLDR*: 'atLeast') describes a lower limit. This might be "99+" to indicate that there are 99 items or more. With the range_pattern (*CLDR*: 'range'), a range of numbers, such as "99103", can be used to indicate that there are from 99 to 103 items.

Number Formats

Number formats are used to define the rules for formatting numeric quantities. Different formats are provided for different contexts. The decimal_format (*CLDR*: 'decimalFormats') is the prescribed locale-specific way to write a base 10 number. Variations of the decimal_format pattern are provided that allow compact number formatting. The percent_format (*CLDR*: 'percentFormats') is the pattern to use for percentage formatting. The pattern for use with scientific (exponent) formatting is provided as sci_format (*CLDR*: 'scientificFormats'). The pattern for use with currency formatting is found in currency_format (*CLDR*: 'currencyFormats'). This format contains a few additional structural options that allow proper placement of the currency symbol relative to the numeric quantity. The accounting_format (*CLDR*: 'accountingFormats') pattern is to be used to generate accounting-style formatting.

script_metadata

A table with metadata for a wide variety of script types

Description

The script_metadata table contains metadata for various script types. There are 170 rows and the following 11 columns:

- script (character)
- sample_char (character)
- rank (integer)
- script (character)
- rtl (character)
- lb_letters (character)
- has_case (character)
- shaping_req (character)
- ime (character)
- density (integer)
- origin_country(character)
- likely_lang(character)

22 tz_exemplar

Usage

script_metadata

Format

An object of class tbl_df (inherits from tbl, data.frame) with 170 rows and 11 columns.

tz_bcp_id

A table with BCP47 Olson/IANA-style and canonical time zone IDs

Description

The tz_bcp_id table provides a lookup for converting between BCP47 Olson/IANA-style time zone IDs and the canonical forms (according to BCP47). There are 593 rows and the following 3 columns:

- tz_bcp_id (character)
- tz_canonical (character)
- description (character)

Usage

tz_bcp_id

Format

An object of class tbl_df (inherits from tbl, data.frame) with 593 rows and 3 columns.

tz_exemplar

A table with localized names for all time zone exemplar cities

Description

The tz_exemplar table contains localized names for all exemplar cities used in time zone names. There are 574 rows and a column for each exemplar city name (comprising 442 columns; the locale column is first). To have syntactical column names, all slashes in exemplar city names are instead represented with period characters (e.g., Indiana/Vincennes is Indiana.Vincennes). Some exemplar cities are not actually cities and these are: UTC.long.standard(en: "Coordinated Universal Time"), UTC.short.standard(en: "UTC"), and Unknown (en: "Unknown City").

Usage

tz_exemplar

Format

An object of class tbl_df (inherits from tbl, data.frame) with 574 rows and 443 columns.

tz_formats 23

tz_formats

A table with localized time zone formatting information

Description

The tz_formats table contains localized formatting information across all locales. There are 574 rows and the following 7 columns:

- locale (character)
- hour_format (character)
- gmt_format (character)
- gmt_zero_format (character)
- region_format (character)
- region_format_daylight (character)
- region_format_standard(character)
- region_format_fallback (character)

Usage

tz_formats

Format

An object of class tbl_df (inherits from tbl, data.frame) with 574 rows and 8 columns.

tz_map

A table with names of map-based time zones

Description

The tz_map table contains names for all map-based time zone names. There are 598 rows and the following 4 columns:

- canonical_tz_name (character)
- territory (character)
- tz_name (character)

Usage

tz_map

Format

An object of class tbl_df (inherits from tbl, data.frame) with 598 rows and 3 columns.

24 tz_metazone_users

tz_metazone_names

A table with localized time zone names for all metazones

Description

The tz_metazone_names table contains localized time zone names for all metazones (e.g., America/Eastern). There can be a variety of time zone names, comprising long and short forms (e.g., Eastern Time and ET) and this is further segmented by generic, standard, and daylight forms (an example, using short forms, is ET, EST, and EDT). There are 465 rows and a column for each metazone (comprising 159 columns; the locale column is first).

Usage

tz_metazone_names

Format

An object of class tbl_df (inherits from tbl, data.frame) with 465 rows and 160 columns.

tz_metazone_users

A table that links canonical tz names with their metazone

Description

The tz_metazone_users table allows for a lookup of canonical time zone name to which metazone each uses. As an example, the canonical time zone America/Vancouver corresponds to the America_Pacific metazone (this is the long ID, but there is often a short ID available as well). The metazone_long_id can be used to get a localized metazone name by use of the tz_metazone_names table.

There are 293 rows and the following 4 columns:

- canonical_tz_name (character)
- territory (character)
- metazone_long_id (character)
- metazone_short_id (character)

Usage

tz_metazone_users

Format

An object of class tbl_df (inherits from tbl, data.frame) with 293 rows and 4 columns.

units 25

units

A table with localized data on units

Description

The units table contains localized character data across 574 locales. There are 1722 rows and 1281 columns. Each row represents a display type ("long", "short", or "narrow") for each of the locales.

Following the locale and type columns, each unit and its subelements are provided as a cluster of columns in the form "<<category>-unit name>.<subelement name>". The subelement names are:

- "displayName"
- "unitPattern-count-one"
- "unitPattern-count-other"
- "unitPattern-count-zero"
- "unitPattern-count-two"
- "unitPattern-count-few"
- "unitPattern-count-many"

The "displayName" is the localized name for a unit when displayed outside of a pattern. The "unitPattern-count-*" subelements provide the localized forms of the unit when the value is exactly 0 ("unitPattern-count-one"), 1 ("unitPattern-count-one"), 2 ("unitPattern-count-two"), and, when the value constitutes a few ("unitPattern-count-few") or many ("unitPattern-count-many") units. Every other case is handled by "unitPattern-count-other".

Usage

units

Format

An object of class tbl_df (inherits from tbl, data.frame) with 1722 rows and 1281 columns.

Index

* datasets	<pre>currency_code_list (element_lists), 15</pre>	
all_currency_codes, 2		
all_locales, 3	dates, 7, 8, 11, <i>14</i>	
<pre>character_labels, 4</pre>	<pre>dates_elements (element_lists), 15</pre>	
characters, 3	dates_generic, 12, 14	
currencies, 10	day_periods, 14	
dates, 11	default_locales, 14	
dates_generic, 12	delimiters, 15	
day_periods, 14		
default_locales, 14	element_lists, 15	
delimiters, 15	lavort 16	
element_lists, 15	layout, 16	
layout, 16	locale_list (element_lists), 15	
locale_names, 17	locale_names, 8, 17	
numbers, 18	locale_names_elements, 8	
script_metadata, 21	<pre>locale_names_elements (element_lists),</pre>	
tz_bcp_id, 22	13	
tz_exemplar, 22	numbers, 9, 10, 18	
tz_formats, 23	numbers_elements (element_lists), 15	
tz_map, 23	number 3_erements (erement_fracs), 15	
tz_metazone_names, 24	script_metadata, 21	
tz_metazone_users, 24		
units, 25	tz_bcp_id, 22	
	tz_exemplar, 22	
all_currency_codes, 2	tz_formats, 23	
all_locales, 3	tz_map, 23	
	tz_metazone_names, 24, 24	
character_labels, 4, 5	tz_metazone_users, 24	
characters, 3, 4, 5		
characters_elements (element_lists), 15	units, 25	
cldr_character_labels, 5		
cldr_characters, 4		
cldr_currencies, 6		
cldr_dates, 7		
cldr_locale_names, 8		
cldr_numbers, 9		
currencies, 2, 6, 10		
currencies_elements, 6		
currencies_elements (element_lists), 15		
currency_code_list, 6		