Package 'zipangu'

November 7, 2024

```
Title Japanese Utility Functions and Data
Version 0.3.3
Description Some data treated by the Japanese R user require
      unique operations and processing. These are caused by address, Kanji,
      and traditional year representations. 'zipangu' transforms specific
      to Japan into something more general one.
License MIT + file LICENSE
URL https://uribo.github.io/zipangu/, https://github.com/uribo/zipangu
BugReports https://github.com/uribo/zipangu/issues
Depends R (>= 3.2)
Imports dplyr (>= 0.8.3), lifecycle (>= 0.1.0), lubridate (>= 1.7.4),
      magrittr (>= 1.5), memoise, purrr (>= 0.3.3), rlang (>= 0.4.0),
      stringi (>= 1.4.3), stringr (>= 1.4.0), tibble (>= 2.1.3),
      arabic2kansuji (>= 0.1.0), stats
Suggests curl, testthat (>= 2.1.0), scales (>= 1.1.0)
Encoding UTF-8
LazyData true
RoxygenNote 7.3.2
NeedsCompilation no
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Repository CRAN
Date/Publication 2024-11-07 06:30:02 UTC
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convert_jdate

Convert Japanese date format to date object

Description

[Maturing]

Usage

```
convert_jdate(date, legacy = FALSE)
```

Arguments

date A character object.

legacy A logical to switch converter. If TRUE supplied, use the legacy converter instead

of 'ICU' implementation.

```
convert_jdate("R3/2/27")
#> [1] "2021-02-27"
convert_jdate("\u4ee4\u548c2\u5e747\u67086\u65e5")
#> [1] "2020-07-06"
```

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convert_jyear

Convert Japanese imperial year to Anno Domini

Description

[Maturing]

Usage

```
convert_jyear(jyear, legacy = FALSE)
```

Arguments

jyear Japanese imperial year (jyear). Kanji or Roman character

legacy A logical to switch converter. If TRUE supplied, use the legacy converter instead

of 'ICU' implementation.

Examples

```
convert_jyear("R1")
#> [1] 2019
convert_jyear("Heisei2")
#> [1] 1990
convert_jyear("\u5e73\u6210\u5143\u5e74")
#> [1] 1989
convert_jyear(c("\u662d\u548c10\u5e74", "\u5e73\u621014\u5e74"))
#> [1] 1935 2002
convert_jyear(kansuji2arabic_all("\u5e73\u6210\u4e09\u5e74"))
#> [1] 1991
```

 ${\tt convert_prefecture}$

Convert prefecture names to roman or kanji

Description

Convert prefecture names to roman or kanji

Usage

```
convert_prefecture(x, to)
```

Arguments

x prefecture name in kanji to conversion destination dl_zipcode_file

Examples

```
convert_prefecture(c("tokyo-to", "osaka", "ALL"), to="kanji")
convert_prefecture(
    c("\u6771\u4eac", "\u5927\u962a\u5e9c",
        "\u5317\u6d77\u9053", "\u5168\u56fd"),
    to = "roman")
```

convert_prefecture_from_kana

Convert prefecture names from kana

Description

Convert prefecture names from kana

Usage

```
convert_prefecture_from_kana(x)
```

Arguments

Х

prefecture name in kana

Examples

```
 convert\_prefecture\_from\_kana(c("\u3068\u3046\u304d\u3087\u3046\u3068")) \\ convert\_prefecture\_from\_kana(c("\u30c8\u30a6\u30ad\u30e7\u30a6\u30e8", "\u304a\u30e7\u30a6\u30e8")) \\ convert\_prefecture\_from\_kana(c("\u30c8\u30a6\u30ad\u30e7\u30a6", "\u304a\u304a\u3055\u304b")) \\
```

dl_zipcode_file

Download a zip-code file

Description

[Maturing]

Usage

```
dl_zipcode_file(path, exdir = NULL)
```

Arguments

path local file path or zip file URL

exdir The directory to extract zip file. If NULL, use temporary folder.

find_date_by_wday 5

Examples

find_date_by_wday

Find out the date of the specific month and weekday

Description

[Experimental] Get the date of the Xth the specific weekday

Usage

```
find_date_by_wday(year, month, wday, ordinal)
```

Arguments

year numeric year

month numeric month

wday numeric weekday

ordinal number of week

Value

```
a vector of class POSIXct
```

```
find_date_by_wday(2021, 1, 2, 2)
```

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harmonize_prefecture_name

Harmonize the notation of Japanese prefecture names.

Description

[Experimental]

Usage

```
harmonize_prefecture_name(x, to)
```

Arguments

x Input vector.

to Option. Whether to use longer ("long") or shorter ("short") prefectures.

Details

Convert with and without terminal notation, respectively.

- long option, long formal name
- Use the short option to omit the trailing characters

Examples

```
x <- c("\u6771\u4eac\u90fd", "\u5317\u6d77\u9053", "\u6c96\u7e04\u770c") harmonize_prefecture_name(x, to = "short")  
x <- c("\u6771\u4eac", "\u5317\u6d77\u9053", "\u6c96\u7e04") harmonize_prefecture_name(x, to = "long")
```

is_jholiday

Is x a public holidays in Japan?

Description

[Experimental] Whether it is a holiday defined by Japanese law (enacted in 1948)

Usage

```
is_jholiday(date)
```

Arguments

date

a vector of POSIXt, numeric or character objects

is_prefecture 7

Details

Holiday information refers to data published as of December 21, 2020. Future holidays are subject to change.

Value

TRUE if x is a public holidays in Japan, FALSE otherwise.

Examples

```
is_jholiday("2021-01-01")
#> [1] TRUE
is_jholiday("2018-12-23")
#> [1] TRUE
is_jholiday("2019-12-23")
#> [1] FALSE
```

is_prefecture

Check correctly prefecture names

Description

[Stable]

Usage

```
is_prefecture(x)
```

Arguments

Χ

Input vector.

Details

Check if the string is a prefectural string. If it contains the name of the prefecture and other strings (e.g. city name), it returns FALSE.

Value

logical

```
is\_prefecture("\u6771\u4eac\u90fd")\\ is\_prefecture(c("\u6771\u4eac", "\u4eac\u90fd", "\u3064\u304f\u3070"))
```

§ jholiday_spec

is_zipcode

Test zip-code

Description

[Experimental]

Usage

```
is_zipcode(x)
```

Arguments

Χ

Zip-code. Number or character. Hyphens may be included, but the input must contain a 7-character number.

Value

A logical vector.

Examples

```
is_zipcode(7000027)
is_zipcode("700-0027")
```

jholiday_spec

Public holidays in Japan

Description

[Experimental]

Usage

```
jholiday_spec(year, name, lang = "en")
jholiday(year, lang = "en")
```

Arguments

year numeric years after 1949. If NA supplied, jholiday_spec returns NA respec-

tively. On the other hand, jholiday always omits any NA values.

name holiday names. If this argument is not the same length of year, the first element

will be recycled.

lang switch for turning values to "en" or "jp".

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Details

Holiday information refers to data published as of December 21, 2020. Future holidays are subject to change.

```
jholiday_spec(2019, "Sports Day")
#> [1] "2019-10-14"
jholiday_spec(2021, "Sports Day")
#> [1] "2021-07-23"
List of a specific year holidays
jholiday(2021, "en")
#> $`New Year's Day`
#> [1] "2021-01-01"
#> $`Coming of Age Day`
#> [1] "2021-01-11"
#>
#> $`Foundation Day`
#> [1] "2021-02-11"
#>
#> $`The Emperor's Birthday`
#> [1] "2021-02-23"
#>
#> $`Vernal Equinox Day`
#> [1] "2021-03-20"
#> $`Showa Day`
#> [1] "2021-04-29"
#>
#> $`Constitution Memorial Day`
#> [1] "2021-05-03"
#>
#> $`Greenery Day`
#> [1] "2021-05-04"
#> $`Children's Day`
#> [1] "2021-05-05"
#> $`Marine Day`
#> [1] "2021-07-22"
#>
#> $`Sports Day`
#> [1] "2021-07-23"
#>
#> $`Mountain Day`
#> [1] "2021-08-08"
```

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```
#>
#> $`Respect for the Aged Day`
#> [1] "2021-09-20"
#>
#> $`Autumnal Equinox Day`
#> [1] "2021-09-23"
#>
#> $`Culture Day`
#> [1] "2021-11-03"
#>
#> $`Labour Thanksgiving Day`
#> [1] "2021-11-23"
```

References

Public Holiday Law https://www8.cao.go.jp/chosei/shukujitsu/gaiyou.html, https://laws.e-gov.go.jp/document?lawid=323AC1000000178

jpnprefs

Prefectural informations in Japan

Description

Prefectures dataset.

Usage

jpnprefs

Format

A tibble with 47 rows 5 variables:

• jis_code: jis code

• prefecture_kanji: prefecture names

• prefecture: prefecture names

region: regionmajor_island:

Examples

jpnprefs

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kana Create kana vector

Description

[Experimental] Generates a vector consisting of the elements of kana. Options exist for the inclusion of several elements.

Usage

```
kana(type, ...)
hiragana(
   core = TRUE,
   dakuon = FALSE,
   handakuon = FALSE,
   kogaki = FALSE
)

katakana(
   core = TRUE,
   dakuon = FALSE,
   handakuon = FALSE,
   handakuon = FALSE,
   kogaki = FALSE
)
```

Arguments

```
type "hiragana" ("hira") or "katakana" ("kata")
... Arguments passed on to hiragana
core is include core kana characters.
dakuon e.g. ga, gi, gu, ge, go
handakuon e.g. pa, pi, pu, pe, po
kogaki small character
historical old style
```

```
kana(type = "hira", core = TRUE)
kana(type = "hira", core = TRUE, handakuon = TRUE)
```

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Description

[Experimental] Converts a given Kansuji element such as Ichi (1) and Nana (7) to an Arabic. kansuji2arabic_all() converts only Kansuji in the string. kansuji2arabic_num() convert kansuji that contain the positions (e.g. Hyaku, Sen, etc) with the numbers represented by kansuji. kansuji2arabic_str() converts kansuji in a string to numbers represented by kansuji while retaining the non-kansuji characters.

Usage

```
kansuji2arabic(str, convert = TRUE, .under = Inf)
kansuji2arabic_all(str, ...)
kansuji2arabic_num(str, consecutive = c("convert", "non"), ...)
kansuji2arabic_str(
    str,
    consecutive = c("convert", "non"),
    widths = c("all", "halfwidth"),
    ...
)
```

Arguments

str	Input vector.
convert	If FALSE, will return as numeric. The default value is TRUE, and numeric values are treated as strings.
.under	Number scale to be converted. The default value is infinity.
	Other arguments to carry over to kansuji2arabic()
consecutive	If you select "convert", any sequence of 1 to 9 kansuji will be replaced with Arabic numerals. If you select "non", any sequence of 1-9 kansuji will not be replaced by Arabic numerals.
widths	If you select "all", both full-width and half-width Arabic numerals are taken into account when calculating kansuji, but if you select "halfwidth", only half-width Arabic numerals are taken into account when calculating kansuji.

Value

a character or numeric.

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Examples

```
kansuji2arabic("\u4e00")
kansuji2arabic(c("\u4e00", "\u767e"))
kansuji2arabic(c("\u4e00", "\u767e"), convert = FALSE)
# Keep Kansuji over 1000.
kansuji2arabic(c("\u4e00", "\u767e", "\u5343"), .under = 1000)
# Convert all character
kansuji2arabic_all("\u3007\u4e00\u4e8c\u4e09\u56db\u4e94\u516d\u4e03\u516b\u4e5d\u5341")
kansuji2arabic_all("\u516b\u4e01\u76ee")
# Convert kansuji that contain the positions with the numbers represented by kansuji.
kansuji2arabic_num("\u4e00\u5104\u4e8c\u5343\u4e09\u767e\u56db\u5341\u4e94\u4e07")
kansuji2arabic_num("\u4e00\u5104\u4e8c\u4e09\u56db\u4e94\u4e07\u516d\u4e03\u516b\u4e5d")
# Converts kansuji in a string to numbers represented by kansuji.
kansuji2arabic_str("\u91d1\u4e00\u5104\u4e8c\u5343\u4e09\u767e\u56db\u5341\u4e94\u4e07\u5186")
kansuji2arabic_str("\u91d1\u4e00\u5104\u4e8c\u4e09\u56db\u4e94\u4e07\u516d\u4e03\u516b\u4e5d\u5186")
kansuji2arabic_str("\u91d1\u4e00\u5104\u4e8c\u4e09\u56db\u4e94\u4e07\u516d\u4e03\u516b\u4e5d\u5186")
kansuji2arabic_str("\u91d1\u4e00\u5104\u4e8c\u4e09\u56db\u4e94\u4e07\u516d\u4e03\u516b\u4e5d\u5186")
```

label_kansuji

Label numbers in Kansuji format

Description

Automatically scales and labels with the Kansuji Myriad Scale (e.g. "Man", "Oku", etc). Use label_kansuji() converts the label value to either Kansuji value or a mixture of Arabic numerals and the Kansuji Scales for ten thousands, billions, and ten quadrillions. Use label_kansuji_suffix() converts the label value to an Arabic numeral followed by the Kansuji Scale with the suffix.

Usage

```
label_kansuji(
  unit = NULL,
  sep = "",
  prefix = "",
  big.mark = "",
  number = c("arabic", "kansuji"),
  ...
)

label_kansuji_suffix(
  accuracy = 1,
  unit = NULL,
  sep = NULL,
  prefix = "",
  big.mark = "",
  significant.digits = FALSE,
  ...
)
```

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Arguments

unit Optional units specifier.

sep Separator between number and Kansuji unit.

prefix Symbols to display before value.

big.mark Character used between every 3 digits to separate thousands.

number If Number is arabic, it will return a mixture of Arabic and the Kansuji Myriad

Scale; if Kansuji, it will return only Kansuji numerals.

... Other arguments passed on to base::prettyNum(), scales::label_number()

or arabic2kansuji::arabic2kansuji_all().

accuracy A number to round to. Use (e.g.) 0.01 to show 2 decimal places of precision.

significant.digits

Determines whether or not the value of accurary is valid as a significant figure with a decimal point. The default is FALSE, in which case if accurary is 2 and the value is 1.10, 1.1 will be displayed, but if TRUE and installed {scales}

package, 1.10 will be displayed.

Value

All label_() functions return a "labelling" function, i.e. a function that takes a vector x and returns a character vector of length(x) giving a label for each input value.

Examples

```
library("scales")
demo_continuous(c(1, 1e9), label = label_kansuji())
demo_continuous(c(1, 1e9), label = label_kansuji_suffix())
```

read_zipcode

Read Japan post's zip-code file

Description

[Experimental]

Usage

```
read_zipcode(path, type = c("oogaki", "kogaki", "roman", "jigyosyo"))
```

Arguments

path local file path or zip file URL

type Input file type, one of "oogaki", "kogaki", "roman", "jigyosyo"

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Details

Reads zip-code data in csv format provided by japan post group and parse it as a data.frame. Corresponds to the available "oogaki", "kogaki", "roman" and "jigyosyo" types. These file types must be specified by the argument.

Value

tibble

See Also

https://www.post.japanpost.jp/zipcode/dl/readme.html, https://www.post.japanpost. jp/zipcode/dl/jigyosyo/readme.html

Examples

separate_address

Separate address elements

Description

[Experimental] Parses and decomposes address string into elements of prefecture, city, and lower address.

Usage

```
separate_address(str)
```

Arguments

str

Input vector. address strings.

str_jconv

Value

A list of elements that make up an address.

Examples

```
separate_address("\u5317\u6d77\u9053\u672d\u5e4c\u5e02\u4e2d\u592e\u533a")
```

str_jconv

Converts the kind of string used as Japanese

Description

[Stable]

Usage

```
str_jconv(str, fun, to)
str_conv_hirakana(str, to = c("hiragana", "katakana"))
str_conv_zenhan(str, to = c("zenkaku", "hankaku"))
str_conv_romanhira(str, to = c("roman", "hiragana"))
str_conv_normalize(str, to = c("nfkc"))
```

Arguments

str Input vector.

fun convert function

to Select the type of character to convert.

Details

Converts the types of string treat by Japanese people to each other. The following types are supported.

- Hiraganra to Katakana
- · Zenkaku to Hankaku
- Latin (Roman) to Hiragana

See Also

These functions are powered by the stringi package's stri_trans_general().

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Examples

```
str_jconv("\u30a2\u30a4\u30a6\u30a8\u30aa", str_conv_hirakana, to = "hiragana")
str_jconv("\u3042\u3044\u3046\u3048\u304a", str_conv_hirakana, to = "katakana")
str_jconv("\uff1\uff10", str_conv_zenhan, "hankaku")
str_jconv("\u30a2\u30a4\u30a6\u30a8\u30aa", str_conv_romanhira, "roman")
str_jconv("\u30a2\u30a4\u30a6\u30a8\u30aa", str_conv_romanhira, "roman")
str_jconv("\u2460", str_conv_normalize, "nfkc")
str_conv_hirakana("\u30a2\u30a4\u30a6\u30a8\u30aa", to = "hiragana")
str_conv_hirakana("\u30a2\u30a4\u3046\u3048\u304a", to = "katakana")
str_conv_zenhan("\uff10", "hankaku")
str_conv_zenhan("\uff76\uff9e\uff6f", "zenkaku")
str_conv_romanhira("aiueo", "hiragana")
str_conv_romanhira("\u3042\u3044\u3046\u3048\u304a", "roman")
str_conv_romanhira("\u3042\u3044\u3046\u3048\u304a", "roman")
str_conv_normalize("\u2460", "nfkc")
```

str_jnormalize

Converts characters following the rules of 'neologd'

Description

Converts characters following the rules of 'neologd'

Usage

```
str_jnormalize(str)
```

Arguments

str

Input vector.

Details

Converts the characters into normalized style basing on rules that is recommended by the Neologism dictionary for MeCab.

Value

a character

See Also

https://github.com/neologd/mecab-ipadic-neologd/wiki/Regexp.ja

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Examples

```
str_jnormalize(
 paste0(
         \uff30",
    "\uff32\uff2d\uff2c\u300
                                \u526f
                                           \u8aad
                                                     \u672c
 )
)
str_jnormalize(
 paste0(
    "\u5357\u30a2\u30eb\u30d7\u30b9\u306e\u3000\u5929\u7136\u6c34",
    "-\u3000\uff33\uff50\uff41\uff52\uff4b\uff49\uff4e\uff47\u3000",
    "\uff2c\uff45\uff4d\uff4f\uff4e\u3000\u30ec\u30e2\u30f3\u4e00\u7d5e\u308a"
)
)
```

zipcode_spacer

Insert and remove zip-code connect character

Description

[Maturing] Inserts a hyphen as a delimiter in the given zip-code string. Or exclude the hyphen.

Usage

```
zipcode_spacer(x, remove = FALSE)
```

Arguments

x Zip-code. Number or character. Hyphens may be included, but the input must

contain a 7-character number.

remove Default is FALSE. If TRUE, remove the hyphen.

```
zipcode_spacer(7000027)
zipcode_spacer("305-0053")
zipcode_spacer("305-0053", remove = TRUE)
```

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