

Package ‘jpcity’

May 26, 2024

Type Package

Title Read and Convert Japanese Municipality Codes

Version 0.2.1

Description Read Japanese city codes (<https://www.e-stat.go.jp/municipalities/cities>) to get city and prefecture names, or convert to city codes at different points in time. In addition, it merges or splits wards of designated cities and gets all city codes at a specific point in time.

License MIT + file LICENSE

Encoding UTF-8

RoxygenNote 7.3.1

Depends R (>= 4.1)

Imports cli, dplyr, lifecycle, lubridate, pillar, purrr, rlang, stringr, tibble, vctrs

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

URL <https://uchidamizuki.github.io/jpcity/>,
<https://github.com/UchidaMizuki/jpcity>

BugReports <https://github.com/UchidaMizuki/jpcity/issues>

NeedsCompilation no

Author Mizuki Uchida [aut, cre]

Maintainer Mizuki Uchida <uchidamizuki@vivaldi.net>

Repository CRAN

Date/Publication 2024-05-26 08:00:13 UTC

R topics documented:

city_code	2
city_convert	3
city_data	3

city_desig_merge	4
city_desig_split	4
city_interval	5
city_name	5
city_to_pref	6
find_city	6
get_city	7
is_city	7
is_pref	8
parse_city	8
parse_pref	9
pref_code	9
pref_data	10
pref_name	10
Index	11

city_code

Get city codes

Description

Get city codes

Usage

city_code(city)

Arguments

city A jpcity_city object.

Value

A character vector of city codes.

city_convert	<i>Convert to cities at different points in time</i>
--------------	--

Description

Convert to cities at different points in time

Usage

```
city_convert(city, from, to)
```

Arguments

city	A jpcity_city object.
from	A character (year, month, and day components) or date-time object of the starting date.
to	A character (year, month, and day components) or date-time object of the ending date.

Value

A list of a jpcity_city object.

Examples

```
city <- parse_city(c("01201", "01202"))
city_convert(city,
             from = "1970-04-01",
             to = "2020-01-01")
```

city_data	<i>Get city data</i>
-----------	----------------------

Description

Get city data

Usage

```
city_data(city)
```

Arguments

city	A jpcity_city object.
------	-----------------------

Value

A data frame.

city_desig_merge	<i>Merge designated city wards</i>
------------------	------------------------------------

Description

Merge designated city wards

Usage

```
city_desig_merge(city, merge_tokyo = FALSE)
```

Arguments

city	A jpcity_city object.
merge_tokyo	Whether to merge Tokyo special wards?

Value

A jpcity_city object.

Examples

```
city <- parse_city(c("01101", "13101"))
city_desig_merge(city)
city_desig_merge(city,
                  merge_tokyo = TRUE)
```

city_desig_split	<i>Split designated cities into wards</i>
------------------	---

Description

Split designated cities into wards

Usage

```
city_desig_split(city, split_tokyo = TRUE)
```

Arguments

city	A jpcity_city object.
split_tokyo	Whether to split into Tokyo special wards?

Value

A list of a `jpcity_city` object.

Examples

```
city <- parse_city(c("01100", "13100"))
city_desig_split(city)
city_desig_split(city,
  split_tokyo = FALSE)
```

city_interval	<i>Get city duration</i>
---------------	--------------------------

Description

Get city duration

Usage

```
city_interval(city, intersect = FALSE)
```

Arguments

city	A <code>jpcity_city</code> object.
intersect	Whether to get the common part of the duration of cities.

Value

A interval vector of the duration of cities.

city_name	<i>Get city names</i>
-----------	-----------------------

Description

Get city names

Usage

```
city_name(city, type = c("city_desig", "city"), sep = "", kana = FALSE)
```

Arguments

city	A jpcity_city object.
type	Types of city names. By default, returns both designated city names ("city_desig") and city names ("city").
sep	Separator for city names.
kana	Whether to use hiragana or not?

Value

A character vector of city names.

city_to_pref	<i>Convert city to prefecture</i>
--------------	-----------------------------------

Description

Convert city to prefecture

Usage

```
city_to_pref(city)
```

Arguments

city	A jpcity_city object.
------	-----------------------

Value

A jpcity_pref object.

find_city	<i>Find cities by string patterns</i>
-----------	---------------------------------------

Description

Find cities by string patterns

Usage

```
find_city(patterns, when = NULL)
```

Arguments

patterns	Patterns to look for. If multiple patterns are given, find the cities that match all patterns.
when	A character (year, month, and day components) or date-time object.

Value

A jpcity_city object.

get_city

Get cities at a specific point in time

Description

Get cities at a specific point in time

Usage

get_city(when)

Arguments

when A character (year, month, and day components) or date-time object.

Value

A jpcity_city object.

Examples

```
get_city("2020-01-01")
```

is_city

Test if the object is a jpcity_city object

Description

Test if the object is a jpcity_city object

Usage

is_city(x)

Arguments

x An object.

Value

TRUE if the object inherits from the jpcity_city class.

is_pref	<i>Test if the object is a jpcity_pref object</i>
---------	---

Description

Test if the object is a jpcity_pref object

Usage

```
is_pref(x)
```

Arguments

x An object.

Value

TRUE if the object inherits from the jpcity_pref class.

parse_city	<i>Parse city codes</i>
------------	-------------------------

Description

Parse city codes

Usage

```
parse_city(x, when = NULL, na = c("", "NA"))
```

Arguments

x A character vector of city codes.
 when A character (year, month, and day components) or date-time object.
 na A character vector to be treated as missing values.

Value

A jpcity_city object.

parse_pref	<i>Parse prefecture codes or names</i>
------------	--

Description

Parse prefecture codes or names

Usage

```
parse_pref(x, strict = TRUE)
```

Arguments

x	A character vector of prefecture codes or names.
strict	A scalar logical. Whether to require the code to have 1 or 2 digits. By default, TRUE.

Value

A `jpcity_pref` object.

pref_code	<i>Get prefecture codes</i>
-----------	-----------------------------

Description

Get prefecture codes

Usage

```
pref_code(city)
```

Arguments

city	A <code>jpcity_city</code> or <code>jpcity_pref</code> object.
------	--

Value

A integer vector of prefecture codes.

pref_data	<i>Get pref data</i>
-----------	----------------------

Description

Get pref data

Usage

```
pref_data(pref)
```

Arguments

pref A `jpcity_pref` object.

Value

A data frame.

pref_name	<i>Get prefecture names</i>
-----------	-----------------------------

Description

Get prefecture names

Usage

```
pref_name(city)
```

Arguments

city A `jpcity_city` object.

Value

A character vector of prefecture names.

Index

city_code, 2
city_convert, 3
city_data, 3
city_desig_merge, 4
city_desig_split, 4
city_interval, 5
city_name, 5
city_to_pref, 6

find_city, 6

get_city, 7

is_city, 7
is_pref, 8

parse_city, 8
parse_pref, 9
pref_code, 9
pref_data, 10
pref_name, 10