Package 'cprr'

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Type Package

Title Functions for Working with Danish CPR Numbers

Description Calculate date of birth, age, and gender, and generate anonymous sequence numbers from CPR numbers. <https://en.wikipedia.org/wiki/Personal_identification_number_(Denmark)>.

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License GPL-3

Encoding UTF-8

LazyData true

URL http://github.com/anhoej/cprr

BugReports http://github.com/anhoej/cprr/issues

RoxygenNote 6.1.1

Suggests testthat

Depends R (>= 3.1.0)

NeedsCompilation no

Repository CRAN

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age *Age*

Description

Calculate ages from CPR numbers.

Usage

```
age(cpr, date = Sys.Date(), unit = "year")
```

Arguments

cpr	Character vector of CPR numbers with or without hyphens.
date	Character or date vector of dates used in computation of ages. Dates provided as characters must follow the ISO standard, 'yyyy-mm-dd'.
unit	Character indicating the unit representing ages. Possible values are: 'year', 'month', 'week', 'day'.

Value

Numeric vector of ages. By default ages are computed in years. Note that year and month units are calculated by approximaion, 1 year = 365.25 days, 1 month = 30.44 days.

Examples

```
age(c('1508631111', '1310762222'))
```

dob *Date of birth*

Description

Calculate dates of birth from CPR numbers.

Usage

```
dob(cpr)
```

Arguments

cpr	Character vector of CPR numbers with or without hyphens.

Value

Vector of dates of birth.

Examples

```
dob(c('1508631111', '1310762222'))
```

---

gender *Gender*

Description

Calculate genders from CPR numbers.

Usage

```
gender(cpr)
```

Arguments

cpr	Character vector of CPR numbers with or without hyphens.

Value

Integer vector of genders: 0 = female, 1 = male.

Examples

```
gender(c('1508631111', '1310762222'))
```

---

mod11 *Modulo 11 check*

Description

Check if CPR numbers conform to modulo 11 check. Note, modulo 11 check was deprecated in 2007.

Usage

```
mod11(cpr)
```

Arguments

cpr	Character vector of CPR numbers with or without hyphens.

Value

Logical vector of check results, NA if CPR number includes characters (temporary CPR number).

Examples

```
mod11(c('1508631111', '1310762222', '2110625629'))
```

`scramble` *Scramble*

Description

Make "anonymous" random numbers from CPR numbers.

Usage

```
scramble(cpr)
```

Arguments

`cpr`	Character vector of CPR numbers with or without hyphens.

Value

Integer vector. Each integer represents one unique CPR number.

Examples

```
scramble(c('1508631111', '1310762222', '1508631111'))
```

`test_cpr` *CPR numbers for testing.*

Description

A dataset containing the list of CPR numbers used for testing calculation of date of birth and gender.

Usage

```
test_cpr
```

Format

A data frame with 30 rows and 3 columns.

cpr CPR number

dob Date of birth

gender Gender, 0 = female, 1 = male ...

Source

http://medcom.dk/opslag/koder-tabeller-ydere/tabeller/nationale-test-cpr-numre

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