

# Package ‘cpr’

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**Version** 0.2.0

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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\\_\(Denmark\)](https://en.wikipedia.org/wiki/Personal_identification_number_(Denmark))>.

**Author** Jacob Anhøj

**Maintainer** Jacob Anhøj <jacob@anhøj.net>

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**URL** <http://github.com/anhøj/cpr>

**BugReports** <http://github.com/anhøj/cpr/issues>

**RoxygenNote** 6.1.1

**Suggests** testthat

**Depends** R (>= 3.1.0)

**NeedsCompilation** no

**Repository** CRAN

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age	<i>Age</i>
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**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 approximation, 1 year = 365.25 days, 1 month = 30.44 days.

**Examples**

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

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dob	<i>Date of birth</i>
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**Description**

Calculate dates of birth from CPR numbers.

**Usage**

```
dob(cpr)
```

**Arguments**

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