

Package ‘numbersBR’

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Title Validate, Compare and Format Identification Numbers from Brazil

Version 0.0.2

Description Validate, format and compare identification numbers used in Brazil. These numbers are used to identify individuals (CPF), vehicles (RENAVAN), companies (CNPJ) and etc. Functions to format, validate and compare these numbers have been implemented in a vectorized way in order to speed up validations and comparisons in big datasets.

Depends R (>= 3.2.2)

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LazyData true

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Imports stringr

Suggests testthat

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==.CNPJ	<i>Compare numbers among themselves, with numeric and character objects.</i>
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Description

Compares the brazilian numbers among themselves, with numeric and character objects.

Usage

```
## S3 method for class 'CNPJ'  
e1 == e2  
  
## S3 method for class 'CNPJ'  
e1 != e2  
  
## S3 method for class 'CPF'  
e1 == e2  
  
## S3 method for class 'CPF'  
e1 != e2  
  
## S3 method for class 'RENAVAN'  
e1 == e2  
  
## S3 method for class 'RENAVAN'  
e1 != e2
```

Arguments

e1	the identification number class.
e2	the object to be compared with, can be of the same type of e1, a numeric or character vector

Value

A logical vector indicating that the given objects represent the same number.

Examples

```
x <- CNPJ(13515463000138)  
x == '13515463000138'  
x <- CPF(68194359406)  
x != "681.943.594-06"  
x <- RENAVAN(68194359406)  
x == "68194359406"
```

CNPJ

Functions to create brazilian numbers objects

Description

The brazilian numbers used to identify individuals, vehicles, companies and any other things have their own S3 classes.

Usage

CNPJ(x)

CPF(x)

RENAVAN(x)

Arguments

x the identification number as numeric or character

Value

A S3 class representing the brazilian number: CNPJ, CPF, RENAVAN

Examples

```
CNPJ(c(13515463000138, 3737211000108, 360305000104, 66670000100))
CNPJ(c("13.515.463/0001-38", "03.737.211/0001-08", "00.360.305/0001-04", "00.066.670/0001-00"))
CPF(c(68194359406, 1239157673, 52008275582))
CPF(c("681.943.594-06", "012.391.576-73", "520.082.755-82"))
RENAVAN(c(75320797785, 91671999129, 60885589380))
```

format.CNPJ

Format numbers

Description

Formats the brazilian numbers according to their specific format.

Usage

```
## S3 method for class 'CNPJ'  
format(x, format = c("strict", "stripped"), ...)  
  
## S3 method for class 'CPF'  
format(x, format = c("strict", "stripped"), ...)  
  
## S3 method for class 'RENAVAN'  
format(x, ...)
```

Arguments

x	the identification number class.
format	can be strict which is the default format with all dots, dashes and hyphens or stripped which returns only the numbers.
...	arguments to be passed to or from other methods.

Value

A character vector with the formatted number.

Examples

```
x <- CNPJ(6667000100)  
format(x)  
format(x, "stripped")  
x <- CPF(1239157673)  
format(x)  
format(x, "stripped")  
x <- RENAVAN("68194359406")  
format(x)
```

is.valid

Validate numbers

Description

Validates the brazilian numbers when it is necessary. Not all identification numbers don't have a validation algorithm.

Usage

```
is.valid(x)  
  
## S3 method for class 'CNPJ'  
is.valid(x)
```

```
## S3 method for class 'CPF'  
is.valid(x)  
  
## S3 method for class 'RENAVAN'  
is.valid(x)
```

Arguments

x the identification number class.

Value

A logical vector indicating whether the number is valid or not.

Examples

```
is.valid(CNPJ(c(13515463000138, 66670000101))) # TRUE, FALSE  
is.valid(CPF(c(1239157673, 42752486198))) # TRUE, FALSE  
is.valid(RENAVAN(c(75320797785, 42752486198))) # TRUE, FALSE
```

numbersBR

Validate, Compare and Format Identification Numbers From Brazil.

Description

This package helps handling identification numbers used in Brazil. These numbers are used to identify individuals (CPF), vehicles (RENAVAN), companies (CNPJ) and etc. Functions to format, validate and compare these numbers have been implemented in a vectorized way in order to speed up validations and comparisons in big datasets.

Author(s)

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