Package 'abjutils'

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Type Package

Title Useful Tools for Jurimetrical Analysis Used by the Brazilian Jurimetrics Association

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Description The Brazilian Jurimetrics Association (ABJ in Portuguese, see https://abj.org.br/ for more information) is a non-profit organization which aims to investigate and promote the use of statistics and probability in the study of Law and its institutions. This package implements general purpose tools used by ABJ, such as functions for sampling and basic manipulation of Brazilian lawsuits identification number. It also implements functions for text cleaning, such as accentuation removal.

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URL https://github.com/abjur/abjutils

Depends R (>= 3.6)

Imports dplyr, magrittr, purrr, rlang, rstudioapi, stringi, stringr, tidyr

Suggests testthat

Encoding UTF-8

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NeedsCompilation no

Author Caio Lente [aut, cre] (https://orcid.org/0000-0001-8473-069X),
Julio Trecenti [aut] (https://orcid.org/0000-0002-3691-6569),
Katerine Witkoski [ctb] (https://orcid.org/0000-0002-3691-6569),
Associação Brasileira de Jurimetria [cph, fnd]

Maintainer Caio Lente <clente@abj.org.br>

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build_id

Add separators to lawsuit IDs

Description

Add separators to lawsuit IDs

Usage

build_id(id)

Arguments

id

One or more lawsuit IDs

calc_dig 3

calc_dig

Calculate digits for Brazilian lawsuit identification numbers

Description

Returns the check digit of a lawsuit numbers in the format unified by the Brazilian National Council of Justice.

Usage

```
calc_dig(num, build = FALSE)
```

Arguments

num Ordered digits of the lawsuit number (including 0's) excluding the check digit

build Whether or not the function return the complete lawsuit number (or only the

check digits)?

Value

The check digits or the complete identification number

Examples

```
{
  calc_dig("001040620018260004", build = TRUE)
  calc_dig("001040620018260004", build = FALSE)
}
```

carf_build_id

Add separators to CARF lawsuits

Description

Add separators to CARF lawsuits

Usage

```
carf_build_id(id)
```

Arguments

id

One or more lawsuit ids

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carf_calc_dig

Calculate check digit for CARF

Description

Returns the check digit of a CARF number or full number with the check digit.

Usage

```
carf_calc_dig(id, build = FALSE, verify = TRUE)
```

Arguments

id Lawsuit number (including trailing zeros), excluding the check digit.

build Whether or not the function return the complete number (or only the check dig-

its)?

verify Verify if number is well formed (gives error if it's not)

Value

The check digits or the complete identification number

Examples

```
{
  carf_calc_dig("10120.008427/2003", build = TRUE)
  carf_calc_dig("15374.002430/99", build = FALSE)
  carf_calc_dig(c("101200084272003", "1537400243099"))
}
```

carf_check_dig

Validate check digits for Brazilian lawsuits identification number

Description

Verifies if a check digit is correct

Usage

```
carf_check_dig(id)
```

Arguments

id

String containing the complete lawsuit number

check_dig 5

Value

Whether or not the check digit is well calculated

Examples

```
{
  carf_check_dig("10120.008427/2003-02")
  carf_check_dig(c("10120008427200302", "10766.000511/96-12"))
}
```

check_dig

Validate check digits for Brazilian lawsuits identification number

Description

Verifies if a check digit is correct

Usage

```
check_dig(num)
```

Arguments

num

String containing the complete lawsuit number

Value

Whether or not the check digit is well calculated

Examples

```
{
  check_dig("0005268-75.2013.8.26.0100")
}
```

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check_dig_vet

Validate check digits for Brazilian lawsuits identification number on vectors.

Description

Verifies if a check digit is correct

Usage

```
check_dig_vet(num)
```

Arguments

num

A vector containing strings with the complete lawsuit number

Value

Whether or not the check digit is well calculated

Examples

```
{
  check_dig_vet(c("0005268-75.2013.8.26.0100", "0004122-85.2010.6.16.0100"))
}
```

chrome_to_body

Convert Chrome's Query String Parameters to a list

Description

To use this function, simply copy the Query String Parameters returned by Chrome when analyzing the network flow of a web page. Paste these QSPs into an R string with double quotes (as you would to create any string) and pass it to chrome_to_body(); the function will print to the console a formatted command that creates a list with the QSPs. This list works perfectly with httr::GET() and httr::POST() so that you can easily reproduce a website's behavior.

Usage

```
chrome_to_body(x)
```

Arguments

Х

A string with Chrome's Query String Parameters

See Also

```
httr::GET(), httr::POST()
```

clean_cnj 7

clean_cnj

Clean a cnj number.

Description

Remove all non-numeric character from a string

Usage

```
clean_cnj(x)
```

Arguments

Х

A string (cnj)

clean_id

Remove separators from lawsuit IDs

Description

Remove separators from lawsuit IDs

Usage

```
clean_id(id)
```

Arguments

id

One or more lawsuit IDs

escape_unicode

Escape accented characters in a document

Description

This function is used by the "Escape Unicode" add-in and removes all accented characters from the current file, replacing them by their equivalent Unicode-escaped values.

Usage

```
escape_unicode()
```

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extract_parts

Extract different parts from lawsuit ID

Description

Given one or more lawsuit IDs, this function extracts one or more parts of the IDs given the following correspondence:

- "N": number
- "D": verification digits
- "A": year
- "J": segment
- "T": court
- "O": origin
- "": all of the above

Usage

```
extract_parts(id, parts = "")
```

Arguments

id One or more lawsuit IDs

parts String or string vector with desired parts (see **description**)

Examples

```
## Not run:
extract_parts("001040620018260004", "N")
extract_parts("001040620018260004", c("N", "A", "O"))
## End(Not run)
```

file_sans_ext

Extract file name without extension

Description

Extract file name without extension

Usage

```
file_sans_ext(x)
```

Arguments

x Character vector of file paths

gather_subjects 9

gather_subjects

Gather subjects from esaj::cjsg_table("subjects")

Description

Once you run esaj::cjsg_table("subjects"), you can use this function to gather the subjects automatically. Download esaj by running devtools::install_github("courtsbr/esaj").

Usage

```
gather_subjects(subjects)
```

Arguments

subjects

Table returned by esaj::cjsg_table("subjects")

lsos

Improved list of objects

Description

Elegantly list objects in a R session.

Usage

```
lsos(
  pos = 1,
  pattern,
  order.by = "Size",
  decreasing = TRUE,
  head = TRUE,
  n = 10
)
```

Arguments

```
Where to look for the object (see "Details" in base::get()'s documentation)

An optional regular expression to match names (utils::glob2rx() can be used to convert wildcard patterns to regular expressions)

order.by Sort by "Size" (default), "Type", "Rows" or "Columns"

decreasing Should the sorting be decreasing?

head Should utils::head() function be used for printing?

n How many lines utils::head() function should show?
```

References

http://stackoverflow.com/questions/1358003/tricks-to-manage-the-available-memory-in-an-r-session

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pattern_cnj

Regex pattern for finding lawsuit numbers

Description

Regex pattern for finding lawsuit numbers

Usage

```
pattern_cnj()
```

precision

Mirror of scales:::precision()

Description

Mirror of scales:::precision()

Usage

```
precision(x)
```

Arguments

Х

See scales:::precision()

reais

Convert Brazilian currency values (text) to numeric

Description

Convert Brazilian currency values (text) to numeric

Usage

```
reais(x)
```

Arguments

Х

A currency vector. Ex: c("R\$ 10.000,00", "R\$ 123,00")

rm_accent 11

rm_accent

Remove accentuation

Description

Remove accented characters from strings converting them to ASCII.

Usage

```
rm_accent(x)
```

Arguments

Χ

A string vector

Value

A version of x without non-ASCII characters

sample_cnj

Generate sample Brazilian lawsuit identification numbers

Description

Returns a data frame containing a random sample of lawsuit numbers distributed according to some regional and jurisdictional parameters. The implementation supports both vector and scalar parameters, depending whether or not the function should uniformly sample from a scope of lawsuit numbers or one should define the parameters for each sample unit.

Usage

```
sample_cnj(
   n,
   foros,
   anos,
   orgao,
   tr,
   first_dig = "0",
   sample_pars = TRUE,
   return_df = TRUE
)
```

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Arguments

| n | A non negative integer giving the number of codes to generate |
|-------------|--|
| foros | One or more strings with 4 characters indicating the juridical forum for the sampled codes |
| anos | One or more strings with 4 characters indicating the distribution years of the generated codes |
| orgao | One or more strings with 1 character indicating the jurisdiction of the sampled codes. |
| tr | One or more strings with 1 character indicating the court of the generated codes |
| first_dig | The first digit of the lawsuit code ("0" by default and sampled if "") |
| sample_pars | Whether or not the parameters define the characteristics of the codes |
| return_df | Whether or not the function should return a data frame |

Value

A data frame or a vector containing a random sample of lawsuits IDs

Examples

```
# sampling the parameters
  sample_cnj(3,
    foros = "0000",
    anos = "2015", orgao = 8, tr = 26,
    first_dig = "0", sample_pars = TRUE, return_df = FALSE
  )
  sample_cnj(10,
    foros = c("0000", "0001"),
    anos = c("2014", "2015"), orgao = 8, tr = 26,
    first_dig = "0", sample_pars = TRUE, return_df = FALSE
  )
  # not sampling the parameters
  sample_cnj(3,
    foros = c("0000", "0001", "0002"),
anos = c("2014", "2015", "2016"), orgao = rep(8, 3), tr = rep(26, 3),
    first_dig = "0", sample_pars = FALSE, return_df = FALSE
  )
}
```

separate_cnj 13

| separate_cnj Separate a la | wsuit ID column into its parts |
|----------------------------|--------------------------------|
|----------------------------|--------------------------------|

Description

Wrapper around tidyr::separate() that splits a column with lawsuit IDs into 6 columns with its parts (see extract_parts()). Note that the IDs must be built (see build_id()).

Usage

```
separate_cnj(data, col, ...)
```

Arguments

| data | A data frame |
|------|---|
| col | Column name or position (see tidyr::separate()) |
| | Other arguments passed on to tidyr::separate() |

tabela Produce frequency and relative frequency tables

Description

Produces a contingency table of the elements of a vector calculating relative frequencies as well.

Usage

```
tabela(x, label = "variavel")
```

Arguments

x A vector

label Quoted name of the column to create in output

Value

A data frame containing frequency and relative frequencies for the levels of x

14 test_fun

test_fun

Tests a function by checking if its arguments are declared

Description

This function verifies whether all of the arguments of another function already have assigned values. If an argument has a default value but there isn't a corresponding variable, it creates that variable.

Usage

```
test_fun(f, force_default = FALSE)
```

Arguments

A function

force_default Whether or not to assign the default value to arguments that already have assigned values

Examples

```
## Not run:
f <- function(a, b = 3) {
    a * b
}

test_fun(f)
a
b

b <- 5
test_fun(f)
a
b

test_fun(f, TRUE)
a
b

## End(Not run)</pre>
```

verify_cnj 15

verify_cnj

Validate Brazilian lawsuits identification number on vectors.

Description

Verifies if a Brazilian lawsuit identification is a cnj number.

Usage

```
verify_cnj(cnj)
```

Arguments

cnj

A vector containing strings with the complete lawsuit number

Value

Whether or not the check digit is well calculated

write_data

Shortcut to write file to "data/" directory from a pipe

Description

Shortcut to write file to "data/" directory from a pipe

Usage

```
write_data(x, name, dir = "data/")
```

Arguments

x Object to write

name Name of the object (important when loading)

dir Directory where to save file

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