Package: abjutils (via r-universe)

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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, https://abjur.github.io/abjutils/

Depends R (>= 3.6)

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

Suggests testthat

Encoding UTF-8

LazyData TRUE

Roxygen list(markdown = TRUE, roclets = c(``rd'', ``namespace'', ``collate''))

RoxygenNote 7.1.2

Repository https://abjur.r-universe.dev

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

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RemoteSha 8db7753126d07fde49ba1e0fec666c2a4e308e19

Contents

`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 *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("00104062001826004", build = TRUE)
  calc_dig("00104062001826004", 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

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 digits)?
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

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")
}
```

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

x	A string with Chrome's Query String Parameters

See Also

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

clean_cnj *Clean a cnj number.*

Description

Remove all non-numeric character from a string

Usage

```
clean_cnj(x)
```

Arguments

x	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()
```

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("00104062001826004", "N")
extract_parts("00104062001826004", 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 *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

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

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

x	See scales:::precision()

reais *Convert Brazilian currency values (text) to numeric*

Description

Convert Brazilian currency values (text) to numeric

Usage

```
reais(x)
```

Arguments

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

rm_accent *Remove accentuation*

Description

Remove accented characters from strings converting them to ASCII.

Usage

```
rm_accent(x)
```

Arguments

x	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
)
```

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 *Separate a lawsuit 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

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

f	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

a <- 2
test_fun(f)
a
b

## End(Not run)
```

`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

Index