

Package ‘hablar’

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Type Package

Title Non-Astonishing Results in R

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Description Simple tools for converting columns to new data types. Intuitive functions for columns with missing values.

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BugReports <https://github.com/davidsjoberg/hablar/issues>

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as_reliable	<i>Reliable conversion to another data type</i>
-------------	---

Description

Support functions for the `convert` function. These functions coerces vectors to a new data type, e.g. `as.numeric` except that it converts factors to character first. See [convert](#) for more information.

Usage

```
as_reliable_num(x, ...)
```

```
as_reliable_int(x, ...)
```

```
as_reliable_lgl(x, ...)
```

```
as_reliable_dte(x, origin = "1970-01-01", ...)
```

```
as_reliable_dtm(x, origin = "1970-01-01", tz = "UTC", ...)
```

```
as_reliable_int(x, ...)
```

```
as_reliable_lgl(x, ...)
```

```
as_reliable_dte(x, origin = "1970-01-01", ...)
```

```
as_reliable_dtm(x, origin = "1970-01-01", tz = "UTC", ...)
```

Arguments

`.x` vector

`...` additional arguments

`origin` argument to set origin for date/date time.

`tz` argument to set time zone for date/date time. Default is UTC.

Value

vector

See Also

vignette("convert"), vignette("hablar")

Examples

```
x <- as.factor(c("1", "3.5"))
as_reliable_num(x)
```

```
x <- as.factor(c("9", "7"))
as_reliable_int(x)
```

```
x <- as.factor(c("1", "0"))
as_reliable_lgl(x)
```

check_df

Special checks

Description

Returns TRUE if data frame have the specified special cases. For example, find_duplicates() returns TRUE if any rows are duplicates. If variables are passed to the function then TRUE or FALSE is returned for those variables.

Usage

```
check_duplicates(.data, ...)
```

```
check_na(.data, ...)
```

```
check_irrational(.data, ...)
```

```
check_nan(.data, ...)
```

```
check_inf(.data, ...)
```

```
check_complete_set(.data, ...)
```

Arguments

.data a data frame

... variables that should be considered. If empty, all variables are used.

Details

irrational values are Inf and NaN. 'check_complete_set' tests if all combinations of elements exists in the data frame.

Value

TRUE or FALSE

See Also

[find_in_df](#) to return rows instead of TRUE or FALSE. [vignette\("s"\)](#), [vignette\("hablar"\)](#)

Examples

```
## Not run:
df <- data.frame(a = c("A", NA, "B", "C", "C"),
                 b = c(7, 8, 2, 3, 3),
                 c = c(NA, 1, NaN, 3, 2),
                 stringsAsFactors = FALSE)

# Returns FALSE because there is no duplicates
df %>% check_duplicates()

# Returns TRUE because there is duplicates in column a through b
df %>% check_duplicates(a:b)

# Returns FALSE because there is no NA column b
df %>% check_na(b)

# Returns TRUE because there is no NaN column c
df %>% check_nan(c)

## End(Not run)
```

convert

Convert data type of columns

Description

Convert data type of columns

Usage

```
num(..., .args = list())
```

```
chr(..., .args = list())
```

```
lgl(..., .args = list())
```

```
int(..., .args = list())  
dbl(..., .args = list())  
fct(..., .args = list())  
dtm(..., .args = list())  
dte(..., .args = list())  
convert(.x, ...)
```

Arguments

...	Scoping functions, see details
.args	extra argument to be passed to support function.
.x	A data.frame

Value

a tbl data frame

See Also

`vignette("convert")`, `vignette("hablar")`

Examples

```
## Not run:  
  
# Change one column to numeric and another to character  
mtcars %>%  
  convert(num(gear),  
          chr(mpg))  
  
# Changing multiple data types on multiple columns  
mtcars %>%  
  convert(int(hp,  
            wt),  
          fct(qsec,  
              cyl,  
              drat))  
  
# Also works with tidyselect convenience functions  
mtcars %>%  
  convert(int(vs:carb),  
          fct(last_col()))
```

```
## End(Not run)
```

could_this_be_that *Tests is a vector could be of another data type*

Description

Tests if vector could be a another data type without errors.

Usage

```
could_chr_be_num(.x)
```

```
could_chr_be_int(.x)
```

```
could_num_be_int(.x)
```

```
could_chr_be_dtm(.x)
```

```
could_chr_be_dte(.x)
```

Arguments

`.x` vector of the data type that should be tested.

Details

The name logic of `could_chr_be_num` should be interpreted as: Could this character vector be a numeric vector? The same logic goes for all functions named `could_this_be_that`.

Value

TRUE or FALSE

See Also

```
vignette("s"), vignette("hablar")
```

Examples

```
x <- c("1", "3", "7")
could_chr_be_num(x)
could_chr_be_int(x)
```

```
x <- c("abc", "3", "Hello world")
could_chr_be_num(x)
```

```
x <- c(NA, "3.45", "5,98")
```

```
could_chr_be_num(x)
could_chr_be_int(x)

x <- as.numeric(c(3.45, 1.5))
could_num_be_int(x)

x <- as.numeric(c(7, 2))
could_num_be_int(x)
```

`create_dummy`*Create a simple dummy*

Description

Creates a vector of the integers 1 and 0. If condition is true it returns 1. If false 0. If condition returns NA it returns NA, if not explicitly not stated that NA should be replaced.

Usage

```
dummy(condition, missing = NA)
dummy_(condition, missing = 0L)

dummy_(condition, missing = 0L)
```

Arguments

<code>condition</code>	a predicament
<code>missing</code>	a replacement if condition is NA

Value

a vector of the integers 1, 0 and NA (if not `dummy_` is used).

See Also

```
vignette("hablar")
```

Examples

```
v <- c(10, 5, 3, NA, 9)
dummy(v > 5)
dummy_(v > 5)
```

cumulative_	<i>cumulative_</i>
-------------	--------------------

Description

cumulative functions. 'cumsum_' is the cumulative sum ignoring missing values. 'cum_unique' counts the cumulative unique value including NA as ONE value. 'cum_unique_' ignores missing values

Usage

```
cumsum_(.v, ignore_na = TRUE)
cummean_(.v, ignore_na = TRUE)
cum_unique(.v, ignore_na = FALSE)
cum_unique_(.v, ignore_na = TRUE)
```

Arguments

.v	a vector
ignore_na	should missing values be ignores?

Value

a vector

find_in_df	<i>Special filters</i>
------------	------------------------

Description

Filters a data frame for special cases. For example, find_duplicates() returns all rows that are duplicates. If variables are passed to the function then duplicates for those variables are returned.

Usage

```
find_duplicates(.data, ...)
find_na(.data, ...)
find_irrational(.data, ...)
find_nan(.data, ...)
find_inf(.data, ...)
```


Arguments

`.data` a data frame
`...` variables that should be considered. If empty, all variables are used.

Details

irrational values are Inf and NaN

Value

a filtered data frame

See Also

`vignette("s"), vignette("hablar")`
[check_df](#) to return TRUE or FALSE instead of rows.

Examples

```
## Not run:
df <- data.frame(a = c("A", NA, "B", "C", "C"),
                 b = c(NA, 1, 1, 3, 3),
                 c = c(7, 8, 2, 3, 3),
                 stringsAsFactors = FALSE)

# Returns duplicated rows
df %>% find_duplicates()

# Returns duplicates in specific variables
df %>% find_duplicates(b:c)

# Returns rows where NA in variable b
df %>% find_na(b)

## End(Not run)
```

given

given

Description

Simple function that filters a vector while helping with missing values. Replacing expression like `'x[x > 3 & !is.null(x)]'`

Usage

```
given(.x, .y, ignore_na = FALSE)
```

```
given_(.x, .y, ignore_na = TRUE)
```

Arguments

.x	the vector to filter
.y	a logical vector to filter with
ignore_na	should NA be removed?

Value

a vector

Examples

```
## Not run:
x <- c(1, 2, NA, 4)
x %>% given_(x >= 2)

## End(Not run)
```

if_else_

if_this_else_that_

Description

A vectorised if or else function. It checks that the true or false (or the optional missing) arguments have the same type. However it accepts a generic NA. Built upon dplyr's [if_else()] function. The only difference is that the user do not have to specify the type of NA. if_else_ is faster than base [ifelse()] and a tad slower than dplyr's [if_else()]. Attributes are taken from either true or false because one generic NA.

Usage

```
if_else_(condition, true, false, missing = NULL)
```

Arguments

condition	logical vector
true	value to replace if condition is true. Must be same length as condition or 1.
false	value to replace if condition is false. Must be same length as condition or 1.
missing	optional. a replacement if condition returns NA. Must be same length as condition or 1.

Details

If the returning vector have attributes (e.g. for factors) it returns the attributes for the first non-generic NA in the order true, false and then missing.

Value

a vector

See Also

```
vignette("s"), vignette("hablar")
```

Examples

```
v <- c(TRUE, FALSE, TRUE, FALSE)
if_else_(v, "true", "false")
```

```
v <- c(TRUE, FALSE, NA, FALSE)
if_else_(v, 1, NA, 999)
```

math ignore NA in math funs

Ignore NA in math

Description

Simplifying math functions are simple wrappers of math function (- +). If any of the left-hand side or right-hand side is NA, Inf or NaN it returns any rational value, if there is any.

However, if the both values are irrational it returns NA. The result is then passed to the corresponding math function.

Usage

```
.x %minus_% .y
```

```
.x %plus_% .y
```

Arguments

.x numeric or integer element

.y numeric or integer element

Value

a single value

See Also

```
vignette("s"), vignette("hablar")
```

Examples

```
## Not run: # The simplest case
3 %minus_% 2

# But with NA it returns 3 as if the NA were zero
3 %minus_% NA

# It doesnt matter if the irrational number is on left- or right-hand.
NA %plus_% 5

## End(Not run)
```

```
n_unique count unique elements
      n_unique
```

Description

Simple wrapper for `length(unique(.x))`. If you use `n_unique_(.x)` then NA is ignored when counting.

Usage

```
n_unique(.x, ignore_na = FALSE)
```

```
n_unique_(.x, ignore_na = TRUE)
```

```
n_unique_(.x, ignore_na = TRUE)
```

Arguments

```
.x          a vector
ignore_na   a logical indicating whether missing values should be removed
```

Value

a single numeric vector of the same length as the data frame it is applied to.

See Also

```
vignette("s"), vignette("hablar")
```

Examples

```
# Simple
n_unique(c(1, 2, 2, 3))

# Same result as above eventhough vector includes NA
n_unique_(c(1, 2, 2, 3, NA))
```

rationalize	<i>Only allow rational values in numeric vectors rationalize transforms all numeric elements to be rational values or NA, thus removes all NaN, Inf and replaces them with NA.</i>
-------------	--

Description

Only allow rational values in numeric vectors

rationalize transforms all numeric elements to be rational values or NA, thus removes all NaN, Inf and replaces them with NA.

Usage

```
rationalize(.x, ...)
```

Default S3 method:

```
rationalize(.x, ...)
```

S3 method for class 'numeric'

```
rationalize(.x, ...)
```

S3 method for class 'data.frame'

```
rationalize(.x, ...)
```

Arguments

.x vector or data.frame

... columns to be evaluated. Only applicable if .x is a data frame.

Details

#' If a non-numeric vector is passed, it is unchanged. If a data.frame is passed, it evaluates all columns separately.

Value

For vectors: same data type/class as `.x`.

For `data.frame`: a `tbl` data frame.

NULL

NULL

NULL

See Also

[s](#), [rationalize](#), [vignette\("s"\)](#), [vignette\("hablar"\)](#)

Examples

```
x <- c(3, -Inf, 6.56, 9.3, NaN, 5, -Inf)
rationalize(x)

df <- data.frame(num_col = c(Inf, 3, NaN),
                 chr_col = c("a", "b", "c"),
                 stringsAsFactors = FALSE)
df
rationalize(df)
```

repeat_df

repeat_df

Description

Repeats a data frame `n` times. Useful for testing on large data frames.

Usage

```
repeat_df(.df, n, id = NULL)
```

Arguments

<code>.df</code>	a data frame
<code>n</code>	times the data frame should be repeated
<code>id</code>	a character element that creates a column with a number for each repetition

Value

a vector of the integers 1, 0 and NA (if not `dummy_` is used).

See Also

[vignette\("hablar"\)](#)

Examples

```
repeat_df(mtcars, 2)
```

replacers

replacemnt and specials

Description

If-this-type-then replace with x. And the other way around; replace with x if this.

Usage

```
if_na(.x, replacement, missing = NULL)
if_nan(.x, replacement, missing = NULL)
if_inf(.x, replacement, missing = NULL)
if_zero(.x, replacement, missing = NULL)
na_if(.x, condition, replace_na = FALSE)
nan_if(.x, condition, replace_na = FALSE)
inf_if(.x, condition, replace_na = FALSE)
zero_if(.x, condition, replace_na = FALSE)
if_not_na(.x, replacement, missing = NULL)
if_inf(.x, replacement, missing = NULL)
if_nan(.x, replacement, missing = NULL)
if_zero(.x, replacement, missing = NULL)
na_if(.x, condition, replace_na = FALSE)
inf_if(.x, condition, replace_na = FALSE)
nan_if(.x, condition, replace_na = FALSE)
zero_if(.x, condition, replace_na = FALSE)
```

Arguments

<code>.x</code>	a vector
<code>replacement</code>	a replacement if condition is TRUE
<code>missing</code>	a value that replace missing values in condition.
<code>condition</code>	a predicament
<code>replace_na</code>	if TRUE, missing values in condition will be replaced as well

Value

a vector

See Also

`vignette("s"), vignette("hablar")`

Examples

```
v <- c(1, NA, 2)
if_na(v, 100)

v <- c(999, NA, 2)
zero_if(v, v == 999)
```

retype

Return simple data types

Description

retype transforms all elements into simple classes. The simple classes are date, numeric and character. By transforming all elements to these classes no information is lost, while simplifying the object. See details below for more information or type `vignette("retype")` in the console.

Usage

```
retype(.x, ...)
```

Default S3 method:
retype(.x, ...)

S3 method for class 'logical'
retype(.x, ...)

S3 method for class 'integer'
retype(.x, ...)


```
## S3 method for class 'Date'  
retype(.x, ...)  
  
## S3 method for class 'POSIXct'  
retype(.x, ...)  
  
## S3 method for class 'numeric'  
retype(.x, ...)  
  
## S3 method for class 'list'  
retype(.x, ...)  
  
## S3 method for class 'data.frame'  
retype(.x, ...)
```

Arguments

<code>.x</code>	vector or data.frame
<code>...</code>	column names to be evaluated. Only if <code>.x</code> is a data frame.

Details

Each vector past to `retype` is reclassified into the highest position in a simplification hierarchy without losing any information. This means that: Factors are converted to characters. However, character vectors (or vectors changed to character initially) are checked to see if they could be a numeric vector without error. If so, it is transformed into a numeric vector which is higher in the hierarchy. Vectors of class logical, integer are changed to numerical. Dates and date time (POSIXct) goes through the same procedure. Lists and complex vectors are left unchanged because they are neither simple nor complicated.

Value

For vectors: simple class of `.x`.

For data.frame: a tbl data frame with simple classes.

NULL

NULL

NULL

NULL

NULL

NULL

NULL

NULL

See Also

[s](#), [rationalize](#) #' vignette("retype"), vignette("s"), vignette("hablar")

Examples

```

# Dates
dte <- as.Date(c("2018-01-01", "2016-03-21", "1970-01-05"))
retype(dte)
retype(dte)

# Factors
fct <- as.factor(c("good", "bad", "average"))
retype(dte)

# Character that only contains numeric elements
num_chr <- c("3", "4.0", "3,5")
retype(num_chr)

# Logical
lgl <- c(TRUE, FALSE, TRUE)
retype(lgl)

# Data frame with all the above vectors
df <- data.frame(dte = dte,
                 fct = fct,
                 num_chr = num_chr,
                 lgl = lgl,
                 stringsAsFactors = FALSE)

df
retype(df)

```

s

*Make vector shorter and simpler***Description**

s means simple and short. It removes all non-values, i.e. NA, Inf, NaN from a vector. However, if the length is 0 it returns NA. It is useful in combination with summary functions, e.g. mean, sum or min, when an answer is desired, if there is one in the data. In any other case NA is returned. Type vignette("s") in the console for more information.

Usage

```
s(.x, ignore_na = TRUE)
```

Arguments

.x one vector. Does not work for factors.
ignore_na if TRUE then NA omitted from results, as long as any non-NA element is left.

Value

a shortened and simplified vector

See Also

[retype](#), [rationalize](#), [vignette\("s"\)](#), [vignette\("hablar"\)](#)

Examples

```
## Not run:
library(dplyr)

## s on a weird numeric vector
vector <- c(7, NaN, 6, -Inf, 5, 4, NA)
s(vector)

## Sum vector with non-rational values
vector <- c(7, NaN, -Inf, 4)
# Base R
sum(vector)
# With s
sum(s(vector))

## Max of vector with only NA
# Base R
max(vector, na.rm = TRUE)
# With s
max(s(vector))

## First of vector when NA is first element
vector <- c(NA, "X", "Y")
# dplyr R
first(vector)
# With s
first(s(vector))

## Use of s when NA should not be removed
vector <- c(7, Inf, NA, 4)
# Base R
sum(vector)
# With s
sum(s(vector, ignore_na = FALSE))

## s when summarizing a weird data.frame
df_test <- data.frame(a = c(NaN, 1, -Inf, 3),
                     b = c(NA, "Q", "P", "P"),
                     c = c(NA, NA, NA, NA),
                     stringsAsFactors = FALSE)

df_test

# Base R aggregation with dplyr's summarize
summarise(df_test, mean_a = mean(a),
          min_c = min(c, na.rm = TRUE))

# With s
summarise(df_test, mean_a = mean(s(a)),
          min_c = min(s(c)))
```

```
## End(Not run)
```

```
set_wd_to_script_path Set wd to script path
```

Description

Sets working directory to the path where the R-script is located. Only works inside [Rstudio] and in a script (i.e. not in the console). Additionally, the R-script needs to be saved in a path to work.

Usage

```
set_wd_to_script_path()
```

Value

NULL. In the background the working directory has changed if not any errors occurred.

```
this_date                    this_date
```

Description

Returns the current day, month or year. Day and month returns dates and year a 4 digit number.

Usage

```
this_day()
```

```
this_month()
```

```
this_year()
```

Value

a date or number

Examples

```
this_day()  
this_month()  
this_year()
```

wrapper - s and summary funs

Combine aggregate functions and s

Description

[summary function_*] functions are simple wrappers of aggregate function and the s function. s removes all non-values, i.e. NA, Inf, NaN from a vector. However, if the length is 0 it returns NA. The result is then passed to the corresponding aggregation function. For example, min_(x) is identical to min(s(x)). Please read vignette("s") for more information.

Usage

```
max_(.x, ignore_na = TRUE)
```

```
min_(.x, ignore_na = TRUE)
```

```
sum_(.x, ignore_na = TRUE)
```

```
mean_(.x, ignore_na = TRUE)
```

```
median_(.x, ignore_na = TRUE)
```

```
sd_(.x, ignore_na = TRUE)
```

```
var_(.x, ignore_na = TRUE)
```

```
first_(.x, ignore_na = TRUE)
```

```
last_(.x, ignore_na = TRUE)
```

```
first_non_na(.x)
```

```
squeeze(.x, ignore_na = FALSE)
```

```
squeeze_(.x, ignore_na = TRUE)
```

Arguments

.x	a single vector
ignore_na	if false missing values are not omitted.

Details

'first_non_na' is a faster version of 'first' since it only search for a non NA value until it finds one. 'squeeze' on the other hand checks if all elements are equal and then returns only that value.

Value

a single aggregated value

See Also

`vignette("convert"), vignette("hablar")`

Examples

```
## sum_ on non-rational numeric vector
vector <- c(7, NaN, -Inf, 4)
sum_(vector)

## Min of vector with length 0
vector <- c()
# With a wrapped s
min_(vector)

## Max of vector with only NA
# With a wrapped s
max_(vector)

## Use of s when NA should not be removed
vector <- c(7, Inf, NA, 4)
# With a wrapped s
sum_(vector, ignore_na = FALSE)
```

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