

Package ‘campfin’

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Type Package

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<<https://publicaccountability.org/>>.

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<https://irworkshop.github.io/campfin/>

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abbrev_full	<i>Abbreviate full strings</i>
-------------	--------------------------------

Description

Create or use a named vector (`c("full" = "abb")`) and pass it to `stringr::str_replace_all()`. The `full` argument is surrounded with `\\b` to capture only isolated intended full versions. Note that the built-in `usps_street`, `usps_city`, and `usps_state` dataframes have the columns reversed from what this function needs (to work by default with the counterpart `expand_abbrev()`).

Usage

```
abbrev_full(x, full = NULL, rep = NULL, end = FALSE)
```

Arguments

x	A vector containing full words.
full	One of three objects: (1) A dataframe with full strings in the <i>first</i> column and corresponding abbreviations in the <i>second</i> column; (2) a <i>named</i> vector, with full strings as names for their respective abbreviations (e.g., <code>c("full" = "abb")</code>); or (3) an unnamed vector of full words with an unnamed vector of abbreviations in the <code>rep</code> argument.
rep	If <code>full</code> is an unnamed vector, a vector of abbreviations strings for each full word in <code>abb</code> .
end	logical; if <code>TRUE</code> , then the <code>\$</code> regular expression will be used to only replace words at the <i>end</i> of a string (such as "ROAD" in a street address). If <code>FALSE</code> (default), then the <code>\b</code> regular expression will target <i>all</i> instances of <code>full</code> to be replaced with <code>rep</code> .

Value

The vector `x` with full words replaced with their abbreviations.

See Also

Other geographic normalization functions: [abbrev_state\(\)](#), [check_city\(\)](#), [expand_abbrev\(\)](#), [expand_state\(\)](#), [fetch_city\(\)](#), [normal_address\(\)](#), [normal_city\(\)](#), [normal_state\(\)](#), [normal_zip\(\)](#), [str_normal\(\)](#)

Examples

```
abbrev_full("MOUNT VERNON", full = c("MOUNT" = "MT"))
abbrev_full("123 MOUNTAIN ROAD", full = usps_street)
abbrev_full("123 MOUNTAIN ROAD", full = usps_street, end = TRUE)
abbrev_full("Vermont", full = state.name, rep = state.abb)
```

abbrev_state

Abbreviate US state names

Description

This function is used to first normalize a full state name and then call [abbrev_full\(\)](#) using [valid_name](#) and [valid_state](#) as the `full` and `rep` arguments.

Usage

```
abbrev_state(full)
```

Arguments

full	A full US state name character vector (e.g., "Vermont").
------	--

Value

The 2-letter USPS abbreviation of for state names (e.g., "VT").

See Also

Other geographic normalization functions: [abbrev_full\(\)](#), [check_city\(\)](#), [expand_abbrev\(\)](#), [expand_state\(\)](#), [fetch_city\(\)](#), [normal_address\(\)](#), [normal_city\(\)](#), [normal_state\(\)](#), [normal_zip\(\)](#), [str_normal\(\)](#)

Examples

```
abbrev_state(full = state.name)
abbrev_state(full = c("new mexico", "france"))
```

add_prop	<i>Add proportions</i>
----------	------------------------

Description

Use [prop.table\(\)](#) to add a proportion column to a [dplyr::count\(\)](#) tibble.

Usage

```
add_prop(.data, n, sum = FALSE)
```

Arguments

.data	A data frame with a count column.
n	The column name with a count, usually n from dplyr::count() .
sum	Should cumsum() be called on the new p column.

Details

```
mean(x %in% y)
```

Value

A data frame with the new column p.

Examples

```
add_prop(dplyr::count(ggplot2::diamonds, cut))
```

all_files_new	<i>Check if all files in a directory are new</i>
---------------	--

Description

Tests whether all the files in a given directory have a modification date equal to the system date. Useful when repeatedly running code with a lengthy download stage. Many state databases are updated daily, so new data can be helpful but not always necessary. Set this function in an if statement.

Usage

```
all_files_new(path, glob = NULL, ...)
```

Arguments

path	The path to a directory to check.
glob	A pattern to search for files (e.g., "*.csv").
...	Additional arguments passed to <code>fs::dir_ls()</code> .

Value

logical; Whether `all()` files in the directory have a modification date equal to today.

Examples

```
tmp <- tempdir()
file.create(tempfile(pattern = as.character(1:5)))
all_files_new(tmp)
```

check_city	<i>Check whether an input is a valid place with Google Maps API</i>
------------	---

Description

Check whether a place is a valid place or misspelling by matching against the Google Geocoding search result. Use the `httr::GET()` to send a request to the Google Maps API for geocoding information. The query will concatenate all the geographical information that is passed in into a long string. Then the function pulls the `formatted_address` endpoint of the API results and then identifies and extracts the long name field from the API *locality* result and compare it against the input to see if the input and output match up. Note that you will need to pass in your Google Maps Place API key to the key argument.

Usage

```
check_city(city = NULL, state = NULL, zip = NULL, key = NULL, guess = FALSE)
```

Arguments

city	A string of city name to be submitted to the Geocode API.
state	Optional. The state associated with the city.
zip	Optional. Supply a string of ZIP code to increase precision.
key	A character string to be passed into key. Save your key as "GEOCODE_KEY" using <code>Sys.setenv()</code> or by editing your <code>.Renviron</code> file.
guess	logical; Should the function return a single row tibble containing the original data sent and the multiple components returned by the Geocode API.

Value

A logical value by default. If the city returned by the API comes back the same as the city input, the function will evaluate to TRUE, in all other circumstances (including API errors) FALSE is returned.

If the the guess argument is set to TRUE, a tibble with 1 row and six columns is returned:

- `original_city`: The city value sent to the API.
- `original_state`: The state value sent to the API.
- `original_zip`: The zip value sent to the API.
- `check_city_flag`: logical; whether the guessed city matches.
- `guess_city`: The legal city guessed by the API.
- `guess_place`: The generic locality guessed by the API.

See Also

<https://developers.google.com/maps/documentation/geocoding/overview?csw=1>

Other geographic normalization functions: `abbrev_full()`, `abbrev_state()`, `expand_abbrev()`, `expand_state()`, `fetch_city()`, `normal_address()`, `normal_city()`, `normal_state()`, `normal_zip()`, `str_normal()`

col_date_mdy

Parse USA date columns in readr functions

Description

Parse dates with format MM/DD/YYYY. This function simply wraps around `readr::col_date()` with the format argument set to "%m/%d/%Y". Many US campaign finance datasets use this format.

Usage

```
col_date_mdy()
```

```
col_date_usa()
```

Value

A POSIXct vector.

Examples

```
readr::read_csv(file = "x\n11/09/2016", col_types = readr::cols(x = col_date_mdy()))
```

col_stats

Apply a statistic function to all column vectors

Description

Apply a counting summary function like `dplyr::n_distinct()` or `count_na()` to every column of a data frame and return the results along with a *percentage* of that value.

Usage

```
col_stats(data, fun, print = TRUE)
```

```
glimpse_fun(data, fun, print = TRUE)
```

Arguments

`data` A data frame to glimpse.

`fun` A function to map to each column.

`print` logical; Should all columns be printed as rows?

Value

A tibble with a row for every column with the count and proportion.

Examples

```
col_stats(dplyr::storms, dplyr::n_distinct)
col_stats(dplyr::storms, campfin::count_na)
```

count_diff	<i>Count set difference</i>
------------	-----------------------------

Description

Find the length of the set of difference between x and y vectors.

Usage

```
count_diff(x, y, ignore.case = FALSE)
```

Arguments

x	A vector to check.
y	A vector to compare against.
ignore.case	logical; if FALSE, the pattern matching is case sensitive and if TRUE, case is ignored during matching.

Details

```
sum(x %out% y)
```

Value

The number of *unique* values of x not in y.

See Also

Other counting wrappers: [count_in\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
# only unique values are checked
count_diff(c("VT", "NH", "ZZ", "ZZ", "ME"), state.abb)
```

count_in	<i>Count in</i>
----------	-----------------

Description

Count the total values of `x` that are `%in%` the vector `y`.

Usage

```
count_in(x, y, na.rm = TRUE, ignore.case = FALSE)
```

Arguments

<code>x</code>	A vector to check.
<code>y</code>	A vector to compare against.
<code>na.rm</code>	logical; Should NA be ignored?
<code>ignore.case</code>	logical; if FALSE, the pattern matching is case sensitive and if TRUE, case is ignored during matching.

Details

```
sum(x %out% y)
```

Value

The sum of `x` present in `y`.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
count_in(c("VT", "NH", "ZZ", "ME"), state.abb)
```

count_na	<i>Count missing</i>
----------	----------------------

Description

Count the total values of x that are NA.

Usage

```
count_na(x)
```

Arguments

x A vector to check.

Details

```
sum(is.na(x))
```

Value

The sum of x that are NA

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
count_na(c("VT", "NH", NA, "ME"))
```

count_out	<i>Count out</i>
-----------	------------------

Description

Count the total values of x that are %out% of the vector y.

Usage

```
count_out(x, y, na.rm = TRUE, ignore.case = FALSE)
```

Arguments

<code>x</code>	A vector to check.
<code>y</code>	A vector to compare against.
<code>na.rm</code>	logical; Should NA be ignored?
<code>ignore.case</code>	logical; if FALSE, the pattern matching is case sensitive and if TRUE, case is ignored during matching.

Details

```
sum(x %out% y)
```

Value

The sum of x absent in y.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_na\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
count_out(c("VT", "NH", "ZZ", "ME"), state.abb)
```

dark2

Dark Color Palette

Description

The Dark2 brewer color palette

Usage

```
dark2
```

Format

A named character vector of hex color codes (length 8).

expand_abbrev	<i>Expand Abbreviations</i>
---------------	-----------------------------

Description

Create or use a named vector (`c("abb" = "rep")`) and pass it to `stringr::str_replace_all()`. The `abb` argument is surrounded with `\\b` to capture only isolated abbreviations. To be used inside `normal_address()` and `normal_city()` with `usps_street` and `usps_city`, respectively.

Usage

```
expand_abbrev(x, abb = NULL, rep = NULL)
```

Arguments

<code>x</code>	A vector containing abbreviations.
<code>abb</code>	One of three objects: (1) A dataframe with abbreviations in the <i>first</i> column and corresponding replacement strings in the <i>second</i> column; (2) a <i>named</i> vector, with abbreviations as names for their respective replacements (e.g., <code>c("abb" = "rep")</code>); or (3) an unnamed vector of abbreviations with an unnamed vector of replacements in the <code>rep</code> argument.
<code>rep</code>	If <code>abb</code> is an unnamed vector, a vector of replacement strings for each abbreviation in <code>abb</code> .

Value

The vector `x` with abbreviation replaced with their full version.

See Also

Other geographic normalization functions: `abbrev_full()`, `abbrev_state()`, `check_city()`, `expand_state()`, `fetch_city()`, `normal_address()`, `normal_city()`, `normal_state()`, `normal_zip()`, `str_normal()`

Examples

```
expand_abbrev(x = "MT VERNON", abb = c("MT" = "MOUNT"))
expand_abbrev(x = "VT", abb = state.abb, rep = state.name)
expand_abbrev(x = "Low FE Level", abb = tibble::tibble(x = "FE", y = "Iron"))
```

expand_state	<i>Expand US state names</i>
--------------	------------------------------

Description

This function is used to first normalize an abb and then call `expand_abbrev()` using `valid_state` and `valid_name` as the abb and rep arguments.

Usage

```
expand_state(abb)
```

Arguments

abb A abb US state name character vector (e.g., "Vermont").

Value

The 2-letter USPS abbreviation of for state names (e.g., "VT").

See Also

Other geographic normalization functions: `abbrev_full()`, `abbrev_state()`, `check_city()`, `expand_abbrev()`, `fetch_city()`, `normal_address()`, `normal_city()`, `normal_state()`, `normal_zip()`, `str_normal()`

Examples

```
expand_state(abb = state.abb)
expand_state(abb = c("nm", "fr"))
```

explore_plot	<i>Create Basic Barplots</i>
--------------	------------------------------

Description

This function simply wraps around `ggplot2::geom_col()` to take a dataframe and categorical variable to return a custom barplot ggplot object. The bars are arranged in descending order and are limited to the 8 most frequent values.

Usage

```
explore_plot(data, var, nbar = 8, palette = "Dark2", na.rm = TRUE)
```

Arguments

data	The data frame to explore.
var	A variable to plot.
nbar	The number of bars to plot. Always shows most common values.
palette	The color palette passed to <code>[ggplot2::scale_fill_brewer()]</code> .
na.rm	logical: Should NA values of var be removed?

Value

A ggplot barplot object. Can then be combined with other ggplot layers with + to customize.

Examples

```
explore_plot(iris, Species)
```

extra_city

Additional US City Names

Description

Cities not contained in [valid_city](#), but are accepted localities (neighborhoods or census designated places). This vector consists of normalized self-reported cities in the public data processed by accountability project that were validated by Google Maps Geocoding API (whose [check_city\(\)](#) results evaluate to TRUE). The most recent updated version of the extra_city can be found in [this Google Sheet](#)

Usage

```
extra_city
```

Format

A sorted vector of unique locality names (length 127).

 fetch_city

Return Closest Match Result of Cities from Google Maps API

Description

Use the `httr::GET()` to send a request to the Google Maps API for geocoding information. The query will concatenate all the geographical information that is passed in into a single string. Then the function pulls the `formatted_address` endpoint of the API results and extracts the the first field of the result. Note that you will need to pass in your Google Maps Place API key with the `key` argument.

Usage

```
fetch_city(address = NULL, key = NULL)
```

Arguments

`address` A vector of street addresses. Sent to the API as one string.
`key` A character containing your alphanumeric Google Maps API key.

Value

A character vector of formatted address endpoints from Google. This will include all the fields from street address, city, state/province, zipcode/postal code to country/regions. `NA_character_` is returned for all errored API calls.

See Also

<https://developers.google.com/maps/documentation/geocoding/overview?csw=1>

Other geographic normalization functions: `abbrev_full()`, `abbrev_state()`, `check_city()`, `expand_abbrev()`, `expand_state()`, `normal_address()`, `normal_city()`, `normal_state()`, `normal_zip()`, `str_normal()`

 file_age

File modification date age

Description

The period of time since a system file was modified.

Usage

```
file_age(...)
```

Arguments

... Arguments passed to `file.info()`, namely character vectors containing file paths. Tilde-expansion is done: see `path.expand()`.

Value

A Period class object.

Examples

```
file_age(system.file("README.md", package = "campfin"))
```

file_encoding	<i>File Encoding</i>
---------------	----------------------

Description

Call the file command line tool with option `-i`.

Usage

```
file_encoding(path)
```

Arguments

path A local file path or glob to check.

Value

A tibble of file encoding.

flag_dupes	<i>Flag Duplicate Rows With New Column</i>
------------	--

Description

This function uses `dplyr::mutate()` to create a new `dupe_flag` logical variable with TRUE values for any record duplicated more than once.

Usage

```
flag_dupes(data, ..., .check = TRUE, .both = TRUE)
```

Arguments

data	A data frame to flag.
...	Arguments passed to <code>dplyr::select()</code> (needs to be at least <code>dplyr::everything()</code>).
.check	Whether the resulting column should be summed and removed if empty.
.both	Whether to flag both duplicates or just subsequent.

Value

A data frame with a new `dupe_flag` logical variable.

Examples

```
flag_dupes(iris, dplyr::everything())
flag_dupes(iris, dplyr::everything(), .both = FALSE)
```

flag_na

Flag Missing Values With New Column

Description

This function uses `dplyr::mutate()` to create a new `na_flag` logical variable with TRUE values for any record missing *any* value in the selected columns.

Usage

```
flag_na(data, ...)
```

Arguments

data	A data frame to flag.
...	Arguments passed to <code>dplyr::select()</code> (needs to be at least <code>dplyr::everything()</code>).

Value

A data frame with a new `na_flag` logical variable.

Examples

```
flag_na(dplyr::starwars, hair_color)
```

flush_memory	<i>Flush Garbage Memory</i>
--------------	-----------------------------

Description

Run a full `gc()` a number of times.

Usage

```
flush_memory(n = 1)
```

Arguments

n	The number of times to run <code>gc()</code> .
---	--

guess_delim	<i>Guess the delimiter of a text file</i>
-------------	---

Description

Taken from code used in `vroom::vroom()` with automatic reading.

Usage

```
guess_delim(file, delims = c(",", "\t", "|", ";"), string = FALSE)
```

Arguments

file	Either a path to a file or character string (with at least one newline character).
delims	The vector of single characters to guess from. Defaults to: comma, tab, pipe, or semicolon.
string	Should the file be treated as a string regardless of newline.

Value

The single character guessed as a delimiter.

Source

<https://github.com/tidyverse/vroom/blob/85143f7a417376eaf0e2037ca9575f637e4346c2/R/vroom.R#L288>

Examples

```
guess_delim(system.file("extdata", "vt_contribs.csv", package = "campfin"))
guess_delim("ID;FirstName;MI;LastName;JobTitle", string = TRUE)
guess_delim("
a|b|c
1|2|3
")
```

invalid_city	<i>Invalid City Names</i>
--------------	---------------------------

Description

A custom vector containing common invalid city names.

Usage

```
invalid_city
```

Format

A vector of length 54.

invert_named	<i>Invert a named vector</i>
--------------	------------------------------

Description

Invert the names and elements of a vector, useful when using named vectors as the abbreviation arguments both of [expand_abbrev\(\)](#) and [abbrev_full\(\)](#) (or their parent normalization functions like [normal_address\(\)](#))

Usage

```
invert_named(x)
```

Arguments

x A named vector.

Value

A named vector with names in place of elements and *vice versa*.

Examples

```
invert_named(x = c("name" = "element"))
```

is_abbrev	<i>Check if abbreviation</i>
-----------	------------------------------

Description

To return a value of TRUE, (1) the first letter of `abb` must match the first letter of `full`, (2) *all* letters of `abb` must exist in `full`, and (3) those letters of `abb` must be in the same order as they appear in `full`.

Usage

```
is_abbrev(abb, full)
```

Arguments

<code>abb</code>	A suspected abbreviation
<code>full</code>	A long form string to test against

Value

logical; whether `abb` is potential abbreviation of `full`

Examples

```
is_abbrev(abb = "BRX", full = "BRONX")
is_abbrev(abb = state.abb, full = state.name)
is_abbrev(abb = "NOLA", full = "New Orleans")
is_abbrev(abb = "FE", full = "Iron")
```

is_binary	<i>Check if Binary</i>
-----------	------------------------

Description

Uses `dplyr::n_distinct()` to check if there are only two unique values.

Usage

```
is_binary(x, na.rm = TRUE)
```

Arguments

<code>x</code>	A vector.
<code>na.rm</code>	logical; Should NA be ignored, TRUE by default.

Value

TRUE if only 2 unique values.

Examples

```
if (is_binary(x <- c("Yes", "No"))) x == "Yes"
```

is_even	<i>Check if even</i>
---------	----------------------

Description

Check if even

Usage

```
is_even(x)
```

Arguments

x A numeric vector.

Value

logical; Whether the integer is even or odd.

Examples

```
is_even(1:10)
is_even(10L)
```

keypad_convert	<i>Convert letters or numbers to their keypad counterpart</i>
----------------	---

Description

This function works best when converting numbers to letters, as each number only has a single possible letter. For each letter, there are 3 or 4 possible letters, resulting in a number of possible conversions. This function was intended to convert phonetic telephone numbers to their valid numeric equivalent; when used in this manner, each letter in a string can be lazily replaced without changing the rest of the string.

Usage

```
keypad_convert(x, ext = FALSE)
```

Arguments

x	A vector of characters or letters.
ext	logical; Should extension text be converted to numbers. Defaults to FALSE and matches x, ext, and extension followed by a space or number.

Details

When replacing letters, this function relies on the feature of `stringr::str_replace_all()` to work with named vectors (`c("A" = "2")`).

Value

If a character vector is supplied, a vector of each elements numeric counterpart is returned. If a numeric vector (or a completely coercible character vector) is supplied, then a **list** is returned, each element of which contains a vector of letters for each number.

Examples

```
keypad_convert("1-800-CASH-NOW ext123")
keypad_convert(c("abc", "123"))
keypad_convert(letters)
```

most_common

Find most common values

Description

From a character vector, which values are most common?

Usage

```
most_common(x, n = 6)
```

Arguments

x	A vector.
n	Number of values to return.

Value

Sorted vector of n most common values.

Examples

```
most_common(iris$Species, n = 1)
```

na_in	<i>Remove in</i>
-------	------------------

Description

Set NA for the values of x that are %in% the vector y.

Usage

```
na_in(x, y, ignore.case = FALSE)
```

Arguments

x	A vector to check.
y	A vector to compare against.
ignore.case	logical; if FALSE, the pattern matching is case sensitive and if TRUE, case is ignored during matching.

Value

The vector x missing any values in y.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
na_in(c("VT", "NH", "ZZ", "ME"), state.abb)
na_in(1:10, seq(1, 10, 2))
```

na_out	<i>Remove out</i>
--------	-------------------

Description

Set NA for the values of x that are %out% of the vector y.

Usage

```
na_out(x, y, ignore.case = FALSE)
```

Arguments

x	A vector to check.
y	A vector to compare against.
ignore.case	logical; if FALSE, the pattern matching is case sensitive and if TRUE, case is ignored during matching.

Value

The vector x missing any values not in y.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
na_out(c("VT", "NH", "ZZ", "ME"), state.abb)
na_out(1:10, seq(1, 10, 2))
```

na_rep

Remove repeated character elements

Description

Set NA for the values of x that contain a single repeating character and no other characters.

Usage

```
na_rep(x, n = 0)
```

Arguments

x	A vector to check.
n	The minimum number times a character must repeat. If 0, the default, then any string of one character will be replaced with NA. If greater than 0, the string must contain greater than n number of repetitions.

Details

Uses the regular expression "`^(.)\\1+$`".

Value

The vector x with NA replacing repeating character values.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
na_rep(c("VT", "NH", "ZZ", "ME"))
```

non_ascii	<i>Show non-ASCII lines of file</i>
-----------	-------------------------------------

Description

Show non-ASCII lines of file

Usage

```
non_ascii(path, highlight = FALSE)
```

Arguments

`path` The path to a text file to check.
`highlight` A function used to add ANSI escapes to highlight bytes.

Value

Tibble of line locations.

Examples

```
non_ascii(system.file("README.md", package = "campfin"))
```

normal_address	<i>Normalize street addresses</i>
----------------	-----------------------------------

Description

Return consistent version of a US Street Address using `stringr::str_*()` functions. Letters are capitalized, punctuation is removed or replaced, and excess whitespace is trimmed and squished. Optionally, street suffix abbreviations ("AVE") can be replaced with their long form ("AVENUE"). Invalid addresses from a vector can be removed (possibly using [invalid_city](#)) as well as single (repeating) character strings ("XXXXXX").

Usage

```
normal_address(
  address,
  abbs = NULL,
  na = c("", "NA"),
  punct = "",
  na_rep = FALSE,
  abb_end = TRUE
)
```

Arguments

address	A vector of street addresses (ideally without city, state, or postal code).
abbs	A named vector or two-column data frame (like <code>usps_street</code>) passed to <code>expand_abbrev()</code> . See <code>?expand_abbrev</code> for the type of object structure needed.
na	A character vector of values to make NA (like <code>invalid_city</code>).
punct	A character value with which to replace all punctuation.
na_rep	logical; If TRUE, replace all single digit (repeating) strings with NA.
abb_end	logical; Should only the last word the string be abbreviated with the abbs argument? Passed to the end argument of <code>str_normal()</code> .

Value

A vector of normalized street addresses.

See Also

Other geographic normalization functions: `abbrev_full()`, `abbrev_state()`, `check_city()`, `expand_abbrev()`, `expand_state()`, `fetch_city()`, `normal_city()`, `normal_state()`, `normal_zip()`, `str_normal()`

Examples

```
normal_address("P.O. #123, C/O John Smith", abbs = usps_street)
normal_address("12east 2nd street, #209", abbs = usps_street, abb_end = FALSE)
```

normal_city	<i>Normalize city names</i>
-------------	-----------------------------

Description

Return consistent version of a city names using `stringr::str_*()` functions. Letters are capitalized, hyphens and underscores are replaced with whitespace, other punctuation is removed, numbers are removed, and excess whitespace is trimmed and squished. Optionally, geographic abbreviations ("MT") can be replaced with their long form ("MOUNT"). Invalid addresses from a vector can be removed (possibly using `invalid_city`) as well as single (repeating) character strings ("XXXXXX").

Usage

```
normal_city(city, abbs = NULL, states = NULL, na = c("", "NA"), na_rep = FALSE)
```

Arguments

`city` A vector of city names.

`abbs` A named vector or data frame of abbreviations passed to [expand_abbrev](#); see [expand_abbrev](#) for format of `abb` argument or use the [usps_city](#) tibble.

`states` A vector of state abbreviations ("VT") to remove from the *end* (and only end) of city names ("STOWE VT").

`na` A vector of values to make NA (useful with the [invalid_city](#) vector).

`na_rep` logical; If TRUE, replace all single digit (repeating) strings with NA.

Value

A vector of normalized city names.

See Also

Other geographic normalization functions: [abbrev_full\(\)](#), [abbrev_state\(\)](#), [check_city\(\)](#), [expand_abbrev\(\)](#), [expand_state\(\)](#), [fetch_city\(\)](#), [normal_address\(\)](#), [normal_state\(\)](#), [normal_zip\(\)](#), [str_normal\(\)](#)

Examples

```
normal_city(
  city = c("Stowe, VT", "UNKNOWN CITY", "Burlington", "ST JOHNSBURY", "XXX"),
  abbs = c("ST" = "SAINT"),
  states = "VT",
  na = invalid_city,
  na_rep = TRUE
)
```

normal_phone

Normalize phone number

Description

Take US phone numbers in any number of formats and try to convert them to a standard format.

Usage

```
normal_phone(
  number,
  format = "(%a) %e-%l",
  na_bad = FALSE,
  convert = FALSE,
  rm_ext = FALSE
)
```

Arguments

number	A vector of phone number in any format.
format	The desired output format, with %a representing the 3-digit area code, %e representing the 3-digit exchange , and %l representing the 4-digit line number. The punctuation between each part of the format is used in the normalized number (e.g., "(%a) %e-%l" or "%a-%e-%l").
na_bad	logical; Should invalid numbers be replaced with NA.
convert	logical; Should <code>keypad_convert()</code> be invoked to replace numbers with their keypad equivalent.
rm_ext	logical; Should extensions be removed from the end of a number.

Value

A normalized telephone number.

Examples

```
normal_phone(number = c("916-225-5887"))
```

normal_state	<i>Normalize US State Abbreviations</i>
--------------	---

Description

Return consistent version of a state *abbreviations* using `stringr::str_*()` functions. Letters are capitalized, all non-letters characters are removed, and excess whitespace is trimmed and squished, and then `abbrev_full()` is called with `usps_state`.

Usage

```
normal_state(
  state,
  abbreviate = TRUE,
  na = c("", "NA"),
  na_rep = FALSE,
  valid = NULL
)
```

Arguments

state	A vector of US state names or abbreviations.
abbreviate	If TRUE (default), replace state names with the 2-digit abbreviation using the built-in <code>state.abb</code> and <code>state.name</code> vectors.
na	A vector of values to make NA.
na_rep	logical; If TRUE, make all single digit repeating strings NA (removes valid "AA" code for "American Armed Forces").
valid	A vector of valid abbreviations to compare to and remove those not shared.

Value

A vector of normalized 2-digit state abbreviations.

See Also

Other geographic normalization functions: [abbrev_full\(\)](#), [abbrev_state\(\)](#), [check_city\(\)](#), [expand_abbrev\(\)](#), [expand_state\(\)](#), [fetch_city\(\)](#), [normal_address\(\)](#), [normal_city\(\)](#), [normal_zip\(\)](#), [str_normal\(\)](#)

Examples

```
normal_state(
  state = c("VT", "N/A", "Vermont", "XX", "ZA"),
  abbreviate = TRUE,
  na = c("", "NA"),
  na_rep = TRUE,
  valid = NULL
)
```

normal_zip

Normalize ZIP codes

Description

Return consistent version US ZIP codes using `stringr::str_*`() functions. Non-number characters are removed, strings are padded with zeroes on the left, and ZIP+4 suffixes are removed. Invalid ZIP codes from a vector can be removed as well as single (repeating) character strings.

Usage

```
normal_zip(zip, na = c("", "NA"), na_rep = FALSE, pad = FALSE)
```

Arguments

zip	A vector of US ZIP codes.
na	A vector of values to pass to na_in() .
na_rep	logical; If TRUE, na_rep() will be called. Please note that 22222, 44444, and 55555 valid ZIP codes that will <i>not</i> be removed.
pad	logical; Should ZIP codes less than five digits be padded with a leading zero? Leading zeros (as are found in New England ZIP codes) are often dropped by programs like Microsoft Excel when parsed as numeric values.

Value

A *character* vector of normalized 5-digit ZIP codes.

See Also

Other geographic normalization functions: [abbrev_full\(\)](#), [abbrev_state\(\)](#), [check_city\(\)](#), [expand_abbrev\(\)](#), [expand_state\(\)](#), [fetch_city\(\)](#), [normal_address\(\)](#), [normal_city\(\)](#), [normal_state\(\)](#), [str_normal\(\)](#)

Examples

```
normal_zip(  
  zip = c("05672-5563", "N/A", "05401", "5819", "00000"),  
  na = c("", "NA"),  
  na_rep = TRUE,  
  pad = TRUE  
)
```

path.abbrev	<i>Abbreviate a file path</i>
-------------	-------------------------------

Description

This is an inverse of [path.expand\(\)](#), which replaces the home directory or project directory with a tilde.

Usage

```
path.abbrev(path, dir = fs::path_wd())
```

Arguments

path	Character vector containing one or more full paths.
dir	The directory to replace with ~. Defaults to fs::path_wd() .

Value

Abbreviated file paths.

Examples

```
print(fs::path_wd("test"))  
path.abbrev(fs::path_wd("test"))
```

progress_table	<i>Create a progress table</i>
----------------	--------------------------------

Description

Create a tibble with rows for each stage of normalization and columns for the various statistics most useful in assessing the progress of each stage.

Usage

```
progress_table(..., compare)
```

Arguments

... Any number of vectors to check.
compare A vector to compare each of ... against. Useful with [valid_zip](#), [valid_state](#) ([valid_name](#)), or [valid_city](#).

Value

A table with a row for each vector in

Examples

```
progress_table(state.name, toupper(state.name), compare = valid_name)
```

prop_distinct	<i>Proportion missing</i>
---------------	---------------------------

Description

Find the proportion of values of x that are distinct.

Usage

```
prop_distinct(x)
```

Arguments

x A vector to check.

Details

```
length(unique(x))/length(x)
```

Value

The ratio of distinct values *x* to total values of *x*.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
prop_distinct(c("VT", "VT", NA, "ME"))
```

prop_in	<i>Proportion in</i>
---------	----------------------

Description

Find the proportion of values of *x* that are %in% the vector *y*.

Usage

```
prop_in(x, y, na.rm = TRUE, ignore.case = FALSE)
```

Arguments

<i>x</i>	A vector to check.
<i>y</i>	A vector to compare against.
<i>na.rm</i>	logical; Should NA be ignored?
<i>ignore.case</i>	logical; if FALSE, the pattern matching is case sensitive and if TRUE, case is ignored during matching.

Details

```
mean(x %in% y)
```

Value

The proportion of *x* present in *y*.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
prop_in(c("VT", "NH", "ZZ", "ME"), state.abb)
```

prop_na	<i>Proportion missing</i>
---------	---------------------------

Description

Find the proportion of values of x that are NA.

Usage

```
prop_na(x)
```

Arguments

x A vector to check.

Details

```
mean(is.na(x))
```

Value

The proportion of values of x that are NA.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_out\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
prop_na(c("VT", "NH", NA, "ME"))
```

prop_out	<i>Proportion out</i>
----------	-----------------------

Description

Find the proportion of values of x that are %out% of the vector y.

Usage

```
prop_out(x, y, na.rm = TRUE, ignore.case = FALSE)
```

Arguments

x	A vector to check.
y	A vector to compare against.
na.rm	logical; Should NA be ignored?
ignore.case	logical; if FALSE, the pattern matching is case sensitive and if TRUE, case is ignored during matching.

Details

```
mean(x %out% y)
```

Value

The proportion of x absent in y.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [what_in\(\)](#), [what_out\(\)](#)

Examples

```
prop_out(c("VT", "NH", "ZZ", "ME"), state.abb)
```

read_names	<i>Read column names</i>
------------	--------------------------

Description

Read the first line of a delimited file as vector.

Usage

```
read_names(file, delim = guess_delim(file))
```

Arguments

file	Path to text file.
delim	Character separating column names.

Value

Character vector of column names.

Examples

```
read_names("date,lg1\n11/09/2016,TRUE")
```

rename_prefix	<i>Convert data frame name suffixes to prefixes</i>
---------------	---

Description

When performing a `dplyr::left_join()`, the `suffix` argument allows the user to replace the default `.x` and `.y` that are appended to column names shared between the two data frames. This function allows a user to convert those suffixes to *prefixes*.

Usage

```
rename_prefix(df, suffix = c(".x", ".y"), punct = TRUE)
```

Arguments

<code>df</code>	A joined data frame.
<code>suffix</code>	If there are non-joined duplicate variables in <code>x</code> and <code>y</code> , these suffixes will be added to the output to disambiguate them. Should be a character vector of length 2. Will be converted to prefixes.
<code>punct</code>	logical; Should punctuation at the start of the suffix be detected and placed at the end of the new prefix? TRUE by default.

Value

A data frame with new column names.

Examples

```
a <- data.frame(x = letters[1:3], y = 1:3)
b <- data.frame(x = letters[1:3], y = 4:6)
df <- dplyr::left_join(a, b, by = "x", suffix = c(".a", ".b"))
rename_prefix(df, suffix = c(".a", ".b"), punct = TRUE)
```

rx_break	<i>Form a word break regex pattern</i>
----------	--

Description

Wrap a word in word boundary (`\\b`) characters. Useful when combined with `stringr::str_which()` and `stringr::str_detect()` to match only entire words and not that word *inside* another word (e.g., "sting" and "testing").

Usage

```
rx_break(pattern)
```

Arguments

pattern A regex pattern (a word) to wrap in \\b.

Value

The a glue vector of pattern wrapped in \\b.

Examples

```
rx_break("test")  
rx_break(state.abb[1:5])
```

rx_phone	<i>Phone number regex</i>
----------	---------------------------

Description

The regex string to match US phone numbers in a variety of common formats.

Usage

```
rx_phone
```

Format

A character string (length 1).

rx_state	<i>State regex</i>
----------	--------------------

Description

The regex string to extract state string preceding ZIP code.

Usage

```
rx_state
```

Format

A character string (length 1).

rx_url	<i>URL regex</i>
--------	------------------

Description

The regex string to match valid URLs.

Usage

```
rx_url
```

Format

A character string (length 1).

rx_zip	<i>ZIP code regex</i>
--------	-----------------------

Description

The regex string to extract ZIP code from the end of address.

Usage

```
rx_zip
```

Format

A character string (length 1).

scale_x_truncate	<i>Truncate and wrap x-axis labels</i>
------------------	--

Description

Truncate the labels of a plot's discrete x-axis labels so that the text does not overflow and collide with other bars.

Usage

```
scale_x_truncate(n = 15, ...)
```

```
scale_x_wrap(width = 15, ...)
```

Arguments

n	The maximum width of string. Passed to <code>stringr::str_trunc()</code> .
...	Additional arguments passed to <code>ggplot2::scale_x_discrete()</code> .
width	Positive integer giving target line width in characters. A width less than or equal to 1 will put each word on its own line. Passed to <code>stringr::str_wrap()</code> .

str_dist	<i>Calculate string distance</i>
----------	----------------------------------

Description

This function wraps around `stringdist::stringdist()`.

Usage

```
str_dist(a, b, method = "osa", ...)
```

Arguments

a	R object (target); will be converted by <code>base::as.character()</code> .
b	R object (source); will be converted by <code>base::as.character()</code> .
method	Method for distance calculation. The default is "osa."
...	Other arguments passed to <code>stringdist::stringdist()</code> .

Value

The distance between string a and string b.

Examples

```
str_dist(a = "BRULINGTN", b = "BURLINGTON")
```

str_normal	<i>Normalize a character string</i>
------------	-------------------------------------

Description

The generic normalization that underpins functions like `normal_city()` and `normal_address()`. This function simply chains together three `stringr::str_*()` functions:

1. Convert to uppercase.
2. Replace punctuation with whitespaces.
3. Trim and squish excess whitespace.

Usage

```
str_normal(x, case = TRUE, punct = "", quote = TRUE, squish = TRUE)
```

Arguments

x	A character string to normalize.
case	logical; whether <code>stringr::str_to_upper()</code> should be called.
punct	character; A character string to replace most punctuation with.
quote	logical; whether <code>stringr::str_replace_all()</code> should be called on double quotes.
squish	logical; whether <code>stringr::str_squish()</code> should be called.

Value

A normalized vector of the same length.

See Also

Other geographic normalization functions: `abbrev_full()`, `abbrev_state()`, `check_city()`, `expand_abbrev()`, `expand_state()`, `fetch_city()`, `normal_address()`, `normal_city()`, `normal_state()`, `normal_zip()`

Examples

```
str_normal(" TestING 123 example_test.String ")
```

this_file_new	<i>Check if a single file is new</i>
---------------	--------------------------------------

Description

This function tests whether a single file has a modification date equal to the system date. Useful when repeatedly running code with a lengthy download stage. Many state databases are updated daily, so new data can be helpful but not always necessary. Set this function in an if statement.

Usage

```
this_file_new(path)
```

Arguments

path	The path to a file to check.
------	------------------------------

Value

logical; Whether the file has a modification date equal to today.

Examples

```
tmp <- tempfile()
this_file_new(tmp)
```

url2path	<i>Make a File Path from a URL</i>
----------	------------------------------------

Description

Combine the [basename\(\)](#) of a file URL with a directory path.

Usage

```
url2path(url, dir)
```

Arguments

url	The URL of a file to download.
dir	The directory where the file will be downloaded.

Details

Useful in the `destfile` argument to [download.file\(\)](#) to save a file with the same name as the URL's file name.

Value

The desired file path to a URL file.

Examples

```
url2path("https://floridalobbyist.gov/reports/llob.txt", tempdir())
```

url_file_size	<i>Check a URL file size</i>
---------------	------------------------------

Description

Call [httr::HEAD\(\)](#) and return the number of bytes in the file to be downloaded.

Usage

```
url_file_size(url)
```

Arguments

url The URL of the file to query.

Value

The size of a file to be downloaded.

use_diary *Create a new template data diary*

Description

Take the arguments supplied and put them into the appropriate places in a new template diary. Write the new template diary in the supplied directory.

Usage

```
use_diary(
  st,
  type,
  author,
  path = "state/{st}/{type}/docs/{st}_{type}_diary.Rmd",
  auto = FALSE
)
```

Arguments

st The USPS state abbreviation. State data only, no federal agencies.

type The type of data, one of "contributes", "expends", "lobby", "contracts", "salary", or "voters".

author The author name of the new diary.

path The file path, relative to your working directory, where the diary file will be created. If you use NA, then the lines of the diary will be returned as a character vector. If you specify a character string file path that contains directories that do not exist then they will be created. By default, the path creates the diary in a directory that is expected by the [Accountability Project GitHub repository](#).

auto Must be set to TRUE for the diary to be created and opened.

Value

The file path of new diary, invisibly.

Examples

```
use_diary("VT", "contributes", "Kiernan Nicholls", NA, auto = FALSE)
use_diary("DC", "expends", "Kiernan Nicholls", tempfile(), auto = FALSE)
```

usps_city	<i>USPS City Abbreviations</i>
-----------	--------------------------------

Description

A curated and edited subset of [usps_street](#) containing the USPS abbreviations found in city names. Useful as the `geo_abbs` argument of [normal_city\(\)](#).

Usage

```
usps_city
```

Format

A tibble with 154 rows of 2 variables:

full Primary Street Suffix

abb Commonly Used Street Suffix or Abbreviation ...

Source

USPS Appendix C1, [Street Abbreviations](#)

usps_state	<i>USPS State Abbreviations</i>
------------	---------------------------------

Description

A tibble containing the USPS.

Usage

```
usps_state
```

Format

A tibble with 62 rows of 2 variables:

full Primary Street Suffix

abb Commonly Used Street Suffix or Abbreviation ...

Source

USPS Appendix B, [Two-Letter State Abbreviations](#)

`usps_street`*USPS Street Abbreviations*

Description

A tibble containing common street suffixes or suffix abbreviations and their full equivalent. Useful as the `add_abbs` argument of `normal_address()`.

Usage`usps_street`**Format**

A tibble with 325 rows of 3 variables:

full Primary Street Suffix.

abb Commonly Used Street Suffix or Abbreviation. ...

Source

USPS Appendix [C1 Street Abbreviations](#).

`valid_abb`*US State Abbreviations*

Description

The `abb` column of the `usps_state` tibble.

Usage`valid_abb`**Format**

A vector of 2-digit abbreviations (length 62).

valid_city	<i>US City Names</i>
------------	----------------------

Description

The city column of the zipcodes tibble.

Usage

valid_city

Format

A sorted vector of unique city names (length 19,083).

valid_name	<i>US State Names</i>
------------	-----------------------

Description

The state column of the usps_state tibble.

Usage

valid_name

Format

A vector of state names (length 62).

Details

Contains 12 more names than [datasets::state.name](#).

valid_state	<i>US State Abbreviations</i>
-------------	-------------------------------

Description

The abb column of the usps_state tibble.

Usage

valid_state

Format

A vector of 2-digit abbreviations (length 62).

valid_zip	<i>Almost all of the valid USA ZIP Codes</i>
-----------	--

Description

The zip column of the geo tibble.

Usage

```
valid_zip
```

Format

A sorted vector of 5-digit ZIP codes (length 44334).

what_in	<i>Which in</i>
---------	-----------------

Description

Return the values of x that are %in% of the vector y.

Usage

```
what_in(x, y, ignore.case = FALSE)
```

Arguments

x	A vector to check.
y	A vector to compare against.
ignore.case	logical; if FALSE, the pattern matching is case sensitive and if TRUE, case is ignored during matching.

Details

```
x[which(x %in% y)]
```

Value

The elements of x that are %in% y.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_out\(\)](#)

Examples

```
what_in(c("VT", "DC", NA), state.abb)
```

what_out	<i>Which out</i>
----------	------------------

Description

Return the values of `x` that are `%out%` of the vector `y`.

Usage

```
what_out(x, y, na.rm = TRUE, ignore.case = FALSE)
```

Arguments

<code>x</code>	A vector to check.
<code>y</code>	A vector to compare against.
<code>na.rm</code>	logical; Should NA be ignored?
<code>ignore.case</code>	logical; if FALSE, the pattern matching is case sensitive and if TRUE, case is ignored during matching.

Details

```
x[which(x %out% y)]
```

Value

The elements of `x` that are `%out%` `y`.

See Also

Other counting wrappers: [count_diff\(\)](#), [count_in\(\)](#), [count_na\(\)](#), [count_out\(\)](#), [na_in\(\)](#), [na_out\(\)](#), [na_rep\(\)](#), [prop_distinct\(\)](#), [prop_in\(\)](#), [prop_na\(\)](#), [prop_out\(\)](#), [what_in\(\)](#)

Examples

```
what_out(c("VT", "DC", NA), state.abb)
```

zipcodes	<i>US City, state, and ZIP</i>
----------	--------------------------------

Description

This tibble is the third version of a popular zipcodes database. The original CivicSpace US ZIP Code Database was created by Schuyler Erle using ZIP code gazetteers from the US Census Bureau from 1999 and 2000, augmented with additional ZIP code information from the Census Bureau's TIGER/Line 2003 data set. The second version was published as the `zipcode::zipcode` dataframe object. This version has dropped the latitude and longitude, reorganized columns, and normalize the city values with `normal_city()`.

Usage

```
zipcodes
```

Format

A tibble with 44,336 rows of 3 variables:

city Normalized city name.

state Two letter state abbreviation.

zip Five-digit ZIP Code. ...

Source

Daniel Coven's federalgovernmentzipcodes.us web site and the CivicSpace US ZIP Code Database written by Schuyler Erle schuyler@geocoder.us, 5 August 2004. Original CSV files available from <https://web.archive.org/web/20221005220101/http://federalgovernmentzipcodes.us/free-zipcode-databases.csv>

%out%	<i>Inverted match</i>
-------	-----------------------

Description

%out% is an inverted version of the infix %in% operator.

Usage

```
x %out% table
```

Arguments

x vector: the values to be matched. Long vectors are supported.

table vector or NULL: the values to be matched against.

Details

%out% is currently defined as `"%out%" <- function(x, table) match(x, table, nomatch = 0) == 0`

Value

logical; if x is not present in table

Examples

`c("A", "B", "3") %out% LETTERS`

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