

Package ‘k5’

March 11, 2024

Title Kiernan Nicholls Miscellaneous

Version 0.2.1

Description Quality of life functions for interactive programming. Shortcuts for common combinations of functions or different default arguments. Not to be used in production level scripts, but useful for exploring and quickly manipulating data for easy analysis. Also imports a variety of packages to facilitate the installation of those imported packages on the host machine.

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URL <https://k5cents.github.io/k5/>, <https://github.com/k5cents/k5>

BugReports <https://github.com/k5cents/k5/issues>

Depends R (>= 2.10)

Imports clipr (>= 0.8.0), dplyr (>= 1.1.3), fs (>= 1.6.3), ggplot2 (>= 3.4.4), glue (>= 1.6.2), lubridate (>= 1.9.3), magrittr (>= 2.0.3), purrr (>= 1.0.2), readr (>= 2.1.4), rlang (>= 1.1.1), stringr (>= 1.5.0), tibble (>= 3.2.1), usethis (>= 2.2.2), utils

Suggests covr (>= 3.6.1), crayon (>= 1.5.2), gluedown (>= 1.0.6), here (>= 1.0.1), httr (>= 1.4.4), janitor (>= 2.1.0), knitr (>= 1.41), pacman (>= 0.5.1), readxl (>= 1.4.1), rvest (>= 1.0.3), scales (>= 1.2.1), testthat (>= 3.1.6)

Encoding UTF-8

LazyData true

RoxygenNote 7.2.3

NeedsCompilation no

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Repository CRAN

Date/Publication 2024-03-11 07:50:02 UTC

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contract_convert	<i>Convert contract names to factor intervals</i>
------------------	---

Description

Can perform one of three **rough** conversions:

1. For interval contracts (e.g., "220 - 229", "9% or more", etc.), convert the character strings to proper interval notation.
2. For contracts with multiple discrete outcomes (e.g., Candidate names), convert the character vector to simple factors.

3. For markets with a single binary question (e.g., "Will the Democrats have a brokered convention in 2020?"), contracts returned are always "Yes" which is converted to TRUE.

Usage

```
contract_convert(x, decimal = FALSE)
```

Arguments

`x` A character vector of contract names.

`decimal` Should percentages be converted to decimals?

Value

A interval factor, unique factor, or logical vector.

copy_last	<i>Copy the last object to the clipboard</i>
-----------	--

Description

Use `clipr::write_clip()` to write the last value as a character vector to the system clipboard.

Usage

```
copy_last(x = .Last.value)
```

Arguments

`x` The object to view, usually left as `base::.Last.value`.

Details

The value of the internal evaluation of a top-level R expression is always assigned to `.Last.value` before further processing (e.g., printing).

Value

The same `.Last.value` as *before* copied, invisibly.

count2	<i>Count the way you want</i>
--------	-------------------------------

Description

A wrapper around `dplyr::count()` with `sort` set to `TRUE` by default and the an additional column created by default containing the proportional fraction each observation makes of the whole.

Usage

```
count2(x, ..., wt = NULL, sort = TRUE, prop = TRUE, sum = NULL)
```

```
count_vec(x, sort = TRUE, prop = TRUE, sum = NULL)
```

Arguments

<code>x</code>	A data frame.
<code>...</code>	Variables to group by.
<code>wt</code>	Frequency weights.
<code>sort</code>	If <code>TRUE</code> , will show the largest groups at the top.
<code>prop</code>	If <code>TRUE</code> , compute the fraction of marginal table.
<code>sum</code>	Column to replace with a cumulative sum (n, p, or np).

Value

A tibble of element counts

Examples

```
count2(iris, Species)
```

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

Count in

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

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

```
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

Count missing

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

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

```
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)
```

file_age	<i>File modification date age</i>
----------	-----------------------------------

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.

filter_rx	<i>Filter a data frame by a regular expression</i>
-----------	--

Description

A shortcut for `dat %>% filter(str_detect(column, "\\d"))`.

Usage

```
filter_rx(dat, col, pattern, ...)
```

Arguments

<code>dat</code>	A data frame with a character column to filter.
<code>col</code>	The column containing a character vector to input.
<code>pattern</code>	Pattern to look for..
<code>...</code>	Additional arguments passed to <code>stringr::str_detect()</code> .

Value

A subset of rows from `dat`.

<code>gaa</code>	<i>GAA Team Abbreviations by Season and Team ID</i>
------------------	---

Description

GAA Team Abbreviations by Season and Team ID

Usage

```
gaa
```

Format

A data frame with 74 rows and 3 variables:

seasonId The fantasy season integer

teamId The team ID integer

abbrev The normalized *owner* abbreviation for that year ...

last_value	<i>Return the last value</i>
------------	------------------------------

Description

A function shortcut for accessing [.Last.value](#).

Usage

```
last_value(x = .Last.value)
```

Arguments

x The object to return, usually left as [base::.Last.value](#).

Details

The value of the internal evaluation of a top-level R expression is always assigned to `.Last.value` (in `package:base`) before further processing (e.g., printing).

Value

The same `.Last.value` as *before* viewing, invisibly.

load_my_packages	<i>Save and load packages from file</i>
------------------	---

Description

Save and load packages from file

Usage

```
load_my_packages(path = NULL)

save_my_packages(x = NULL, path = tempfile())
```

Arguments

path The path to a text file containing one package per line. If NULL (default), then the default list is read from `k5/inst/PACKAGES`.

x A character vector of package names to save. If NULL (default), use all currently attached packages.

Value

The list of packages, invisibly.

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"))
```

print_all	<i>Print all rows of elements</i>
-----------	-----------------------------------

Description

Print up to the `getOption("max.print")` and ask the user if they want to print more than that. This is most useful when printing tibbles with more than 10 rows but less than `getOption("max.print")`.

Usage

```
print_all(x, ask = TRUE)
```

Arguments

x	Object to print, typically a data frame or vector.
ask	If the length of x exceeds <code>getOption("max.print")</code> , should the user be promoted confirm their intention to print everything. If FALSE, the maximum is printed without double checking: this can be extremely slow. The 'usethis' package must be installed for interactive confirmation.

Value

The object x (invisibly)

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

Proportion in

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

<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

```
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

<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

```
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_delim_clip	<i>Read a table from the clipboard</i>
-----------------	--

Description

Use `readr::read_delim()` on a string copied to the clipboard. Defaults to tab separator like given when copying cells from spreadsheets.

Usage

```
read_delim_clip(delim = "\t", ...)
```

Arguments

delim	Single character used to separate fields within a record.
...	Additional arguments passed to <code>readr::read_delim()</code> .

Value

A data frame read from the clipboard.

read_delim_dumb	<i>Read a text file without column guessing</i>
-----------------	---

Description

Use `readr::read_delim()` without specifying *any* column types. All columns are treated as character strings.

Usage

```
read_delim_dumb(file, delim = c(",", "\t", "|"), ...)
```

```
read_csv_dumb(file, ...)
```

```
read_tsv_dumb(file, ...)
```

Arguments

file	Either a path to a file, a connection, or literal data.
delim	Single character used to separate fields within a record.
...	Additional arguments passed to <code>readr::read_delim()</code> .

Value

A tibble data frame read from the file.

var_missing	<i>Apply a statistic function to all variables</i>
-------------	--

Description

Apply either `count_na()` or `dplyr::n_distinct()` to every column of a data frame and return the count and share of total values (either proportion missing or proportion distinct).

Usage

```
var_missing(df)
```

```
var_distinct(df)
```

Arguments

df A data frame to glimpse.

Value

Invisibly, a table of statistics by column of a data frame.

Examples

```
var_missing(dplyr::storms)
var_distinct(dplyr::storms)
```

view_firefox	<i>View an HTML document in Firefox</i>
--------------	---

Description

Take an XML document object, write to an HTML file, and open in Firefox.

Usage

```
view_firefox(html)
```

Arguments

html An object which has the class `xml_document`, often from `rvest`.

Value

The html object, invisibly.

view_last	<i>View the last object</i>
-----------	-----------------------------

Description

Invoke a spreadsheet-style data viewer on a matrix-like R object. In a non-interactive session, the object is returned invisibly and nothing is "viewed".

Usage

```
view_last(x = .Last.value)
```

Arguments

x The object to view, usually left as `base::.Last.value`.

Details

The value of the internal evaluation of a top-level R expression is always assigned to `.Last.value` before further processing (e.g., printing).

Value

The same `.Last.value` as *before* viewing, invisibly.

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

Which out

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)
```

word_count	<i>Count file words, lines, and bytes</i>
------------	---

Description

Invoke system tool to print newline, word, and byte counts for each file.

Usage

```
word_count(path, count = "")
```

Arguments

path	Character vector of file paths.
count	The type of element to count, see details.

Details

One of five options or an empty string (default):

1. "lines" for newline characters (separating lines).
2. "words" for words separated by white space.
3. "chars" for individual characters.
4. "bytes" for total bytes, differs with multibyte characters.
5. "max" for the maximum display width of longest line.

Value

A data frame of counts by file.

write_delim_clip	<i>Write a table from the clipboard</i>
------------------	---

Description

Use `readr::format_delim()` on a data frame to copy a string to the clipboard. Defaults to tab separator like given when copying cells from spreadsheets.

Usage

```
write_delim_clip(x, delim = "\t", ...)
```

Arguments

x	A data frame to write to clipboard.
delim	Single character used to separate fields within a record.
...	Additional arguments passed to <code>readr::format_delim()</code> .

Value

Invisibly, the input data frame.

write_last	<i>Write the last value to disk</i>
------------	-------------------------------------

Description

The value of the internal evaluation of a top-level R expression is always assigned to `.Last.value` before further processing (e.g., printing).

Usage

```
write_last(file = tempfile(), x = .Last.value, ...)
```

```
save_last(file = tempfile(), x = .Last.value, ...)
```

Arguments

file	File or connection to write to.
x	The object to write, usually left as <code>base::.Last.value</code> .
...	Additional arguments passed to the writing function (see Details).

Details

Four types of files are written, based on object class:

1. For data frames, a tab-separated file via `readr::write_tsv()`.
2. For vectors, a newline-separated file via `readr::write_lines()`.
3. For ggplots, a raster image (by default) via `ggplot2::ggsave()`.
4. For other objects, an uncompressed data file via `readr::write_rds()`.

Value

The created file path, invisibly.

%out% *Inverted match*

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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