

Package ‘tidytable’

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Title Tidy Interface to 'data.table'

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Description A tidy interface to 'data.table' that is 'rlang' compatible,
giving users the speed of 'data.table' with the clean syntax of the tidyverse.

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<code>arrange.</code>	<i>Arrange/reorder rows</i>
-----------------------	-----------------------------

Description

Order rows in ascending or descending order.

Note: `data.table` orders character columns slightly differently than `dplyr::arrange()` by ordering in the "C-locale". See `?data.table::setorder` for more details.

Usage

`arrange.(df, ...)`

Arguments

<code>.df</code>	A <code>data.frame</code> or <code>data.table</code>
<code>...</code>	Variables to arrange by

Examples

```
test_df <- data.table(
  a = c(1,2,3),
  b = c(4,5,6),
  c = c("a", "a", "b"))

test_df %>%
  arrange.(c, -a)
```

<code>arrange_across.</code>	<i>Arrange by a selection of variables</i>
------------------------------	--

Description

Arrange all rows in either ascending or descending order by a selection of variables.

Usage

`arrange_across.(df, .cols = everything(), .fns)`

Arguments

`.df` A `data.table` or `data.frame`

`.cols` vector `c()` of unquoted column names. `tidyselect` compatible.

`.fns` Function to apply. If `desc.` it arranges in descending order

Examples

```
test_df <- tidytable(a = c("a", "b", "a"), b = 3:1)
```

```
test_df %>%
  arrange_across()
```

```
test_df %>%
  arrange_across(a, desc.)
```

as_tidytable	<i>Coerce an object to a data.table/tidytable</i>
--------------	---

Description

A tidytable object is simply a `data.table` with nice printing features. As such it can be used exactly like a `data.table` would be used.

Note that all tidytable functions automatically convert `data.frames` & `data.tables` to tidytables in the background. As such this function will rarely need to be used by the user.

Usage

```
as_tidytable(x)
```

```
as_dt(x)
```

Arguments

`x` An R object

Examples

```
data.frame(x = 1:3) %>%
  as_tidytable()
```

bind_cols.	<i>Bind data.tables by row and column</i>
------------	---

Description

Bind multiple data.tables into one row-wise or col-wise.

Usage

```
bind_cols(..., .name_repair = "unique")

bind_rows(..., .id = NULL)
```

Arguments

...	data.tables or data.frames to bind
.name_repair	Treatment of duplicate names. See <code>?vctrs::vec_as_names</code> for options/details.
.id	If TRUE, an integer column is made as a group id

Examples

```
df1 <- data.table(x = c(1,2,3), y = c(3,4,5))
df2 <- data.table(x = c(1,2,3), y = c(3,4,5))

df1 %>%
  bind_rows(df2)

bind_rows(list(df1, df2))

df1 %>%
  bind_cols(df2)

bind_cols(list(df1, df2))
```

case.	<i>Improved data.table::fcase()</i>
-------	-------------------------------------

Description

This function allows you to use multiple if/else statements in one call.

It is called like `data.table::fcase()`, but allows the user to use a vector as the default argument.

Usage

```
case(..., default = NA)
```

Arguments

... Sequence of condition/value designations

default Default value. Set to NA by default.

Examples

```
test_df <- tidytable(x = 1:10)

test_df %>%
  mutate(case_x = case.(x < 5, 1,
                        x < 7, 2,
                        default = 3))
```

case_when.	<i>Case when</i>
------------	------------------

Description

This function allows you to use multiple if/else statements in one call.

It is called like `dplyr::case_when()`, but utilizes `data.table::fifelse()` in the background for improved performance.

Usage

```
case_when(...)
```

Arguments

... A sequence of two-sided formulas. The left hand side gives the conditions, the right hand side gives the values.

Examples

```
test_df <- tidytable(x = 1:10)

test_df %>%
  mutate(case_x = case_when.(x < 5 ~ 1,
                             x < 7 ~ 2,
                             TRUE ~ 3))
```

complete.

*Complete a data.table with missing combinations of data***Description**

Turns implicit missing values into explicit missing values.

Usage

```
complete(.df, ..., fill = list(), .fill = NULL)
```

Arguments

.df	A data.frame or data.table
...	Columns to expand
fill	A named list of values to fill NAs with.
.fill	This argument has been renamed to fill and is deprecated

Examples

```
test_df <- data.table(x = 1:2, y = 1:2, z = 3:4)

test_df %>%
  complete(x, y)

test_df %>%
  complete(x, y, fill = list(z = 10))
```

count.

*Count observations by group***Description**

Returns row counts of the dataset. If bare column names are provided, count.() returns counts by group.

Usage

```
count.(.df, ...)
```

Arguments

.df	A data.frame or data.table
...	Columns to group by. tidyselect compatible.

Examples

```
test_df <- data.table(  
  x = 1:3,  
  y = 4:6,  
  z = c("a", "a", "b"))  
  
test_df %>%  
  count()  
  
test_df %>%  
  count(z)  
  
test_df %>%  
  count(where(is.character))
```

`crossing.`*Create a data.table from all unique combinations of inputs*

Description

`crossing.()` is similar to `expand_grid.()` but de-duplicates and sorts its inputs.

Usage

```
crossing(..., .name_repair = "check_unique")
```

Arguments

<code>...</code>	Variables to get unique combinations of
<code>.name_repair</code>	Treatment of problematic names. See <code>?vctrs::vec_as_names</code> for options/details

Examples

```
x <- 1:2  
y <- 1:2  
  
crossing(x, y)  
  
crossing(stuff = x, y)
```

desc.	<i>Descending order</i>
-------	-------------------------

Description

Arrange in descending order. Can be used inside of arrange.()

Usage

```
desc.(x)
```

Arguments

x	Variable to arrange in descending order
---	---

Examples

```
test_df <- data.table(
  a = c(1,2,3),
  b = c(4,5,6),
  c = c("a","a","b"))

test_df %>%
  arrange(c, desc.(a))
```

distinct.	<i>Select distinct/unique rows</i>
-----------	------------------------------------

Description

Retain only unique/distinct rows from an input df.

Usage

```
distinct.(df, ..., .keep_all = FALSE)
```

Arguments

.df	A data.frame or data.table
...	Columns to select before determining uniqueness. If omitted, will use all columns. tidyselect compatible.
.keep_all	Only relevant if columns are provided to ... arg. This keeps all columns, but only keeps the first row of each distinct values of columns provided to ... arg.

Examples

```
test_df <- tidytable(
  x = 1:3,
  y = 4:6,
  z = c("a", "a", "b"))

test_df %>%
  distinct.()

test_df %>%
  distinct.(z)
```

drop_na.

*Drop rows containing missing values***Description**

Drop rows containing missing values

Usage

```
drop_na.(.df, ...)
```

Arguments

.df	A data.frame or data.table
...	Optional: A selection of columns. If empty, all variables are selected. tidyselect compatible.

Examples

```
df <- data.table(
  x = c(1,2,NA),
  y = c("a",NA,"b"))

df %>%
  drop_na.()

df %>%
  drop_na.(x)

df %>%
  drop_na.(where(is.numeric))
```

dt	<i>Pipeable data.table call</i>
----	---------------------------------

Description

Pipeable data.table call

Note: This function does not use data.table's modify-by-reference

Usage

```
dt(.df, ...)
```

Arguments

.df	A data.frame or data.table
...	Arguments passed to data.table call. See ?data.table::[data.table

Examples

```
test_df <- tidytable(
  x = c(1,2,3),
  y = c(4,5,6),
  z = c("a", "a", "b"))

test_df %>%
  dt(, double_x := x * 2) %>%
  dt(order(-double_x))
```

dt_arrange	<i>Deprecated dt_verb() functions</i>
------------	---------------------------------------

Description

tidytable was originally built using dt_verb() syntax. These functions have since been deprecated.

Please use the verb.() versions in your code, as the dt_verb() functions will be removed by the end of 2020.

Usage

```
dt_arrange(.df, ...)

dt_bind_rows(..., .id = NULL)

dt_bind_cols(...)

dt_case(..., default = NA)

dt_count(.df, ...)

dt_distinct(.df, ..., .keep_all = FALSE)

dt_drop_na(.df, ...)

dt_fill(.df, ..., .direction = c("down", "up", "downup", "updown"), .by = NULL)

dt_filter(.df, ..., .by = NULL)

dt_get_dummies(
  .df,
  cols = c(where(is.character), where(is.factor)),
  prefix = TRUE,
  prefix_sep = "_",
  drop_first = FALSE,
  dummify_na = TRUE
)

dt_group_split(.df, ..., .keep = TRUE)

dt_ifelse(conditions, true, false, na = NA)

dt_left_join(x, y, by = NULL)

dt_inner_join(x, y, by = NULL)

dt_right_join(x, y, by = NULL)

dt_full_join(x, y, by = NULL, suffix = c(".x", ".y"))

dt_anti_join(x, y, by = NULL)

dt_map(.x, .f, ...)

dt_map_lgl(.x, .f, ...)

dt_map_int(.x, .f, ...)
```

```
dt_map_dbl(.x, .f, ...)  
dt_map_chr(.x, .f, ...)  
dt_map_dfc(.x, .f, ...)  
dt_map_dfr(.x, .f, ..., .id = NULL)  
dt_map_df(.x, .f, ...)  
dt_map2(.x, .y, .f, ...)  
dt_map2_lgl(.x, .y, .f, ...)  
dt_map2_int(.x, .y, .f, ...)  
dt_map2_dbl(.x, .y, .f, ...)  
dt_map2_chr(.x, .y, .f, ...)  
dt_map2_dfc(.x, .y, .f, ...)  
dt_map2_dfr(.x, .y, .f, ..., .id = NULL)  
dt_map2_df(.x, .y, .f, ..., .id = NULL)  
dt_mutate(.df, ..., .by = NULL)  
dt_mutate_across(.df, .cols = everything(), .fns, ..., .by = NULL)  
dt_n()  
dt_group_nest(.df, ..., .key = "data", .keep = FALSE)  
dt_pivot_longer(  
  .df,  
  cols = everything(),  
  names_to = "name",  
  values_to = "value",  
  values_drop_na = FALSE,  
  ...  
)  
dt_pivot_wider(  
  .df,  
  names_from = name,  
  values_from = value,  
  id_cols = NULL,
```

```

    names_sep = "_",
    values_fn = NULL
  )

dt_pull(.df, var = -1)

dt_relocate(.df, ..., .before = NULL, .after = NULL)

dt_rename(.df, ...)

dt_rename_with(.df, .fn, .cols = everything(), ...)

dt_replace_na(.x, replace = NA)

dt_row_number()

dt_select(.df, ...)

dt_separate(.df, col, into, sep = "[^[:alnum:]]+", remove = TRUE, ...)

dt_slice(.df, ..., .by = NULL)

dt_slice_head(.df, n = 5, .by = NULL)

dt_slice_tail(.df, n = 5, .by = NULL)

dt_slice_min(.df, order_by, n = 1, .by = NULL)

dt_slice_max(.df, order_by, n = 1, .by = NULL)

dt_summarise(.df, ..., .by = NULL)

dt_summarize(.df, ..., .by = NULL)

dt_transmute(.df, ..., .by = NULL)

dt_unite(.df, col = "new_col", ..., sep = "_", remove = TRUE, na.rm = FALSE)

dt_unnest_legacy(.df, ..., .keep_all = FALSE)

```

Arguments

<code>.df</code>	A data.frame or data.table
<code>...</code>	Variables to arrange by
<code>.id</code>	If TRUE, an integer column is made as a group id
<code>default</code>	Default value. Set to NA by default.
<code>.keep_all</code>	Only relevant if columns are provided to ... arg. This keeps all columns, but only keeps the first row of each distinct values of columns provided to ... arg.

.direction	Direction in which to fill missing values. Currently "down" (the default), "up", "downup" (first down then up), or "updown" (first up and then down)
.by	Columns to group by when filling should be done by group
cols	A single column or a vector of unquoted columns to dummify. Defaults to all character & factor columns using <code>c(where(is.character), where(is.factor))</code> . tidyselect compatible.
prefix	TRUE/FALSE - If TRUE, a prefix will be added to new column names
prefix_sep	Separator for new column names
drop_first	TRUE/FALSE - If TRUE, the first dummy column will be dropped
dummify_na	TRUE/FALSE - If TRUE, NAs will also get dummy columns
.keep	Should the grouping columns be kept
conditions	Conditions to test on
true	Values to return if conditions evaluate to TRUE
false	Values to return if conditions evaluate to FALSE
na	Value to return if an element of test is NA.
x	A data.frame or data.table
y	A data.frame or data.table
by	Columns to group by when filling should be done by group
suffix	Append created for duplicated column names when using <code>full_join()</code>
.x	A data.frame or data.table
.f	A function
.y	A data.frame or data.table
.cols	A single column or a vector of unquoted columns to dummify. Defaults to all character & factor columns using <code>c(where(is.character), where(is.factor))</code> . tidyselect compatible.
.fns	Functions to pass. Can pass a list of functions.
.key	Name of the new column created by nesting.
names_to	Name of the new "names" column. Must be a string.
values_to	Name of the new "values" column. Must be a string.
values_drop_na	If TRUE, rows will be dropped that contain NAs.
names_from	A pair of arguments describing which column (or columns) to get the name of the output column (<code>name_from</code>), and which column (or columns) to get the cell values from (<code>values_from</code>). tidyselect compatible.
values_from	A pair of arguments describing which column (or columns) to get the name of the output column (<code>name_from</code>), and which column (or columns) to get the cell values from (<code>values_from</code>). tidyselect compatible.
id_cols	A set of columns that uniquely identifies each observation. Defaults to all columns in the data table except for the columns specified in <code>names_from</code> and <code>values_from</code> . Typically used when you have additional variables that is directly related. tidyselect compatible.

names_sep	the separator between the names of the columns
values_fn	Should the data be aggregated before casting? If the formula doesn't identify a single observation for each cell, then aggregation defaults to length with a message.
var	The column to pull from the data.table as: <ul style="list-style-type: none"> • a variable name • a positive integer giving the column position • a negative integer giving the column position counting from the right
.before	Column to move selection before
.after	Column to move selection after
.fn	Function to transform the names with.
replace	If .x is a data frame, a list() of replacement values for specified columns. If .x is a vector, a single replacement value.
col	The column to split into multiple columns
into	New column names to split into. A character vector.
sep	Separator to split on. Can be specified or detected automatically
remove	If TRUE, remove the input column from the output data.table
n	Number of rows to grab
order_by	Variable to arrange by
na.rm	If TRUE, NA values will be not be part of the concatenation

expand.	<i>Expand a data.table to use all combinations of values</i>
---------	--

Description

Generates all combinations of variables found in a dataset.

expand.() is useful in conjunction with joins:

- use with right_join.() to convert implicit missing values to explicit missing values
- use with anti_join.() to find out which combinations are missing

Usage

```
expand(.df, ..., .name_repair = "check_unique")
```

Arguments

.df	A data.frame or data.table
...	Columns to get combinations of
.name_repair	Treatment of duplicate names. See ?vctrs::vec_as_names for options/details

Examples

```
test_df <- tidytable(x = 1:2, y = 1:2)

test_df %>%
  expand.(x, y)
```

expand_grid.	Create a data.table from all combinations of inputs
--------------	---

Description

Create a data.table from all combinations of inputs

Usage

```
expand_grid(..., .name_repair = "check_unique")
```

Arguments

...	Variables to get combinations of
.name_repair	Treatment of problematic names. See <code>?vctrs::vec_as_names</code> for options/details

Examples

```
x <- 1:2
y <- 1:2

expand_grid(x, y)

expand_grid(stuff = x, y)
```

fill.	Fill in missing values with previous or next value
-------	--

Description

Fills missing values in the selected columns using the next or previous entry. Can be done by group.
Supports tidyselect

Usage

```
fill.(.df, ..., .direction = c("down", "up", "downup", "updown"), .by = NULL)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>...</code>	A selection of columns. tidyselect compatible.
<code>.direction</code>	Direction in which to fill missing values. Currently "down" (the default), "up", "downup" (first down then up), or "updown" (first up and then down)
<code>.by</code>	Columns to group by when filling should be done by group

Examples

```
test_df <- tidytable(
  x = c(NA, NA, NA, 4:10),
  y = c(1:6, NA, 8, NA, 10),
  z = c(rep("a", 8), rep("b", 2)))

test_df %>%
  fill(x, y, .by = z)

test_df %>%
  fill(x, y, .by = z, .direction = "downup")
```

filter.	<i>Filter rows on one or more conditions</i>
---------	--

Description

Filters a dataset to choose rows where conditions are true.

Usage

```
filter(.df, ..., .by = NULL)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>...</code>	Conditions to filter by
<code>.by</code>	Columns to group by if filtering with a summary function

Examples

```
test_df <- tidytable(
  a = c(1,2,3),
  b = c(4,5,6),
  c = c("a", "a", "b"))

test_df %>%
  filter(a >= 2, b >= 4)

test_df %>%
  filter(b <= mean(b), .by = c)
```

get_dummies.	<i>Convert character and factor columns to dummy variables</i>
--------------	--

Description

Convert character and factor columns to dummy variables

Usage

```
get_dummies.(
  .df,
  cols = c(where(is.character), where(is.factor)),
  prefix = TRUE,
  prefix_sep = "_",
  drop_first = FALSE,
  dummify_na = TRUE
)
```

Arguments

.df	A data.frame or data.table
cols	A single column or a vector of unquoted columns to dummify. Defaults to all character & factor columns using <code>c(where(is.character), where(is.factor))</code> . tidyselect compatible.
prefix	TRUE/FALSE - If TRUE, a prefix will be added to new column names
prefix_sep	Separator for new column names
drop_first	TRUE/FALSE - If TRUE, the first dummy column will be dropped
dummify_na	TRUE/FALSE - If TRUE, NAs will also get dummy columns

Examples

```
test_df <- tidytable(
  col1 = c("a", "b", "c", NA),
  col2 = as.factor(c("a", "b", NA, "d")),
  var1 = rnorm(4, 0, 1))

# Automatically does all character/factor columns
test_df %>%
  get_dummies()

# Can select one column
test_df %>%
  get_dummies(col1)

# Can select one or multiple columns in a vector of unquoted column names
test_df %>%
  get_dummies(c(col1, col2))
```

```
# Can drop certain columns using
test_df %>%
  get_dummies(c(where(is.character), -col2))

test_df %>%
  get_dummies(prefix_sep = ".", drop_first = TRUE)

test_df %>%
  get_dummies(c(col1, col2), dummify_na = FALSE)
```

group_split.	<i>Split data frame by groups</i>
--------------	-----------------------------------

Description

Split data frame by groups. Returns a list.

Usage

```
group_split.(df, ..., .keep = TRUE)
```

Arguments

.df	A data.frame or data.table
...	Columns to group and split by. tidyselect compatible.
.keep	Should the grouping columns be kept

Examples

```
test_df <- tidytable(
  a = 1:5,
  b = 1:5,
  c = c("a", "a", "a", "b", "b"),
  d = c("a", "a", "a", "b", "b"))

test_df %>%
  group_split.(c, d)

test_df %>%
  group_split.(c, d, .keep = FALSE)
```

ifelse.	<i>Fast ifelse</i>
---------	--------------------

Description

ifelse.() utilizes data.table::fifelse() in the background, but automatically converts NAs to their proper type.

Usage

```
ifelse.(conditions, true, false, na = NA)
```

Arguments

conditions	Conditions to test on
true	Values to return if conditions evaluate to TRUE
false	Values to return if conditions evaluate to FALSE
na	Value to return if an element of test is NA.

Examples

```
x <- 1:5
ifelse.(x > 2, 2, 0)

# Can also be used inside of mutate.()
test_df <- data.table(x = x)

test_df %>%
  mutate.(new_col = ifelse.(x > 2, 2, 0))
```

inv_gc	<i>Run invisible garbage collection</i>
--------	---

Description

Run garbage collection without the gc() output. Can also be run in the middle of a long pipe chain. Useful for large datasets or when using parallel processing.

Usage

```
inv_gc(x)
```

Arguments

x	Optional. If missing runs gc() silently. Else returns the same object unaltered.
---	--

Examples

```
# Can be run with no input
inv_gc()

df <- tidytable(col1 = 1, col2 = 2)

# Or can be used in the middle of a pipe chain (object is unaltered)
df %>%
  filter.(col1 < 2, col2 < 4) %>%
  inv_gc() %>%
  select.(col1)
```

is_tidytable	<i>Test if the object is a tidytable</i>
--------------	--

Description

This function returns TRUE for tidytables or subclasses of tidytables, and FALSE for all other objects.

Usage

```
is_tidytable(x)
```

Arguments

x	An object
---	-----------

Examples

```
dt <- data.table(x = 1)

is_tidytable(dt) # Returns FALSE

df <- tidytable(x = 1)

is_tidytable(df) # Returns TRUE
```

lags.	<i>Get lagging or leading values</i>
-------	--------------------------------------

Description

Find the "previous" or "next" values in a vector. Useful for comparing values behind or ahead of the current values.

Usage

```
lags.(x, n = 1L, default = NA)
```

```
leads.(x, n = 1L, default = NA)
```

Arguments

x	a vector of values
n	a positive integer of length 1, giving the number of positions to lead or lag by
default	value used for non-existent rows. Defaults to NA.

Examples

```
x <- 1:5

leads.(x, 1)
lags.(x, 1)

# Also works inside of `mutate()``
test_df <- tidytable(x = 1:5)

test_df %>%
  mutate(lag_x = lags.(x))
```

left_join.	<i>Join two data.tables together</i>
------------	--------------------------------------

Description

Join two data.tables together

Usage

```

left_join(x, y, by = NULL)

inner_join(x, y, by = NULL)

right_join(x, y, by = NULL)

full_join(x, y, by = NULL, suffix = c(".x", ".y"))

anti_join(x, y, by = NULL)

semi_join(x, y, by = NULL)

```

Arguments

x	A data.frame or data.table
y	A data.frame or data.table
by	A character vector of variables to join by. If NULL, the default, the join will do a natural join, using all variables with common names across the two tables.
suffix	Append created for duplicated column names when using full_join.()

Value

A data.table

Examples

```

df1 <- data.table(x = c("a", "a", "a", "b", "b"), y = 1:5)
df2 <- data.table(x = c("a", "b"), z = 1:2)

df1 %>% left_join(df2)
df1 %>% inner_join(df2)
df1 %>% right_join(df2)
df1 %>% full_join(df2)
df1 %>% anti_join(df2)

```

map.

Apply a function to each element of a vector or list

Description

The map functions transform their input by applying a function to each element and returning a list/vector/data.table.

- map.() returns a list
- _lgl(), _int(), _dbl(), _chr(), _df.() variants return their specified type
- _dfr() & _dfc.() Return all data frame results combined utilizing row or column binding

Usage

```
map(.x, .f, ...)  
  
map_lgl(.x, .f, ...)  
  
map_int(.x, .f, ...)  
  
map_dbl(.x, .f, ...)  
  
map_chr(.x, .f, ...)  
  
map_dfc(.x, .f, ...)  
  
map_dfr(.x, .f, ..., .id = NULL)  
  
map_df(.x, .f, ..., .id = NULL)  
  
walk(.x, .f, ...)  
  
map2(.x, .y, .f, ...)  
  
map2_lgl(.x, .y, .f, ...)  
  
map2_int(.x, .y, .f, ...)  
  
map2_dbl(.x, .y, .f, ...)  
  
map2_chr(.x, .y, .f, ...)  
  
map2_dfc(.x, .y, .f, ...)  
  
map2_dfr(.x, .y, .f, ..., .id = NULL)  
  
map2_df(.x, .y, .f, ..., .id = NULL)
```

Arguments

<code>.x</code>	A list or vector
<code>.f</code>	A function
<code>...</code>	Other arguments to pass to a function
<code>.id</code>	Whether <code>map_dfr()</code> should add an <code>id</code> column to the finished dataset
<code>.y</code>	A list or vector

Examples

```
map.(c(1,2,3), ~ .x + 1)
```

```
map_dbl.(c(1,2,3), ~ .x + 1)
map_chr.(c(1,2,3), as.character)
```

mutate.	<i>Add/modify/delete columns</i>
---------	----------------------------------

Description

With `mutate.()` you can do 3 things:

- Add new columns
- Modify existing columns
- Delete columns

Usage

```
mutate.(df, ..., .by = NULL)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>...</code>	Columns to add/modify
<code>.by</code>	Columns to group by

Examples

```
test_df <- data.table(
  a = c(1,2,3),
  b = c(4,5,6),
  c = c("a","a","b"))

test_df %>%
  mutate.(double_a = a * 2,
          a_plus_b = a + b)

test_df %>%
  mutate.(double_a = a * 2,
          avg_a = mean(a),
          .by = c)
```

mutate_across.	<i>Mutate multiple columns simultaneously</i>
----------------	---

Description

Mutate multiple columns simultaneously.

Usage

```
mutate_across(.df, .cols = everything(), .fns, ..., .by = NULL, .names = NULL)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>.cols</code>	vector <code>c()</code> of unquoted column names. tidyselect compatible.
<code>.fns</code>	Functions to pass. Can pass a list of functions.
<code>...</code>	Other arguments for the passed function
<code>.by</code>	Columns to group by
<code>.names</code>	A glue specification that helps with renaming output columns. <code>{.col}</code> stands for the selected column, and <code>{.fn}</code> stands for the name of the function being applied. The default (NULL) is equivalent to " <code>{.col}</code> " for a single function case and " <code>{.col}_{.fn}</code> " when a list is used for <code>.fns</code> .

Examples

```
test_df <- data.table(
  x = c(1,1,1),
  y = c(2,2,2),
  z = c("a", "a", "b"))

test_df %>%
  mutate_across(where(is.numeric), as.character)

test_df %>%
  mutate_across(c(x, y), ~ .x * 2)

test_df %>%
  mutate_across(everything(), as.character)

test_df %>%
  mutate_across(c(x, y), list(new = ~ .x * 2,
                              another = ~ .x + 7))

test_df %>%
  mutate_across(c(x, y),
    .fns = list(new = ~ .x * 2, another = ~ .x + 7),
    .names = "{.col}_test_{.fn}")
```

mutate_if.	<i>Deprecated mutate helpers</i>
------------	----------------------------------

Description

These helpers have been deprecated. Please use `mutate_across()`

Usage

```
mutate_if(.df, .predicate, .funs, ..., .by = NULL)
mutate_at(.df, .vars, .funs, ..., .by = NULL)
mutate_all(.df, .funs, ..., .by = NULL)
dt_mutate_if(.df, .predicate, .funs, ..., .by = NULL)
dt_mutate_at(.df, .vars, .funs, ..., .by = NULL)
dt_mutate_all(.df, .funs, ..., .by = NULL)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>.predicate</code>	predicate for <code>mutate_if()</code> to use
<code>.funs</code>	Functions to pass. Can pass a list of functions.
<code>...</code>	Other arguments for the passed function
<code>.by</code>	Columns to group by
<code>.vars</code>	vector <code>c()</code> of bare column names for <code>mutate_at()</code> to use

Examples

```
test_df <- data.table(
  x = c(1,1,1),
  y = c(2,2,2),
  z = c("a", "a", "b"))

test_df %>%
  mutate_across(where(is.numeric), as.character)

test_df %>%
  mutate_across(c(x, y), ~ .x * 2)

test_df %>%
  mutate_across(everything(), as.character)

test_df %>%
```

```
mutate_across.(c(x, y), list(new = ~ .x * 2,
                             another = ~ .x + 7))
```

n.	<i>Number of observations in each group</i>
----	---

Description

Helper function that can be used to find counts by group.

Can be used inside `summarize.()`, `mutate.()`, & `filter.()`

Usage

```
n.()
```

Examples

```
test_df <- data.table(
  x = c(1,2,3),
  y = c(4,5,6),
  z = c("a", "a", "b"))

test_df %>%
  summarize.(count = n.(),
             .by = z)

test_df %>%
  mutate.(count = n.())
```

nest_by.	<i>Nest data.tables</i>
----------	-------------------------

Description

Nest data.tables by group

Usage

```
nest_by.(df, ..., .key = "data", .keep = FALSE)
```

Arguments

.df	A data.frame or data.table
...	Columns to group by. If empty nests the entire data.table. tidyselect compatible.
.key	Name of the new column created by nesting.
.keep	Should the grouping columns be kept in the list column.

Examples

```
test_df <- data.table(
  a = 1:10,
  b = 11:20,
  c = c(rep("a", 6), rep("b", 4)),
  d = c(rep("a", 4), rep("b", 6)))

test_df %>%
  nest_by.( )

test_df %>%
  nest_by.(c, d)

test_df %>%
  nest_by.(where(is.character))

test_df %>%
  nest_by.(c, d, .keep = TRUE)
```

pivot_longer.	<i>Pivot data from wide to long</i>
---------------	-------------------------------------

Description

`pivot_wider.()` "widens" data, increasing the number of columns and decreasing the number of rows. The inverse transformation is `pivot_longer.()`. Syntax based on the `tidyr` equivalents.

Usage

```
pivot_longer.(
  .df,
  cols = everything(),
  names_to = "name",
  values_to = "value",
  values_drop_na = FALSE,
  ...
)
```

Arguments

<code>.df</code>	The data table to pivot longer
<code>cols</code>	Vector of bare column names. Can add/drop columns. <code>tidyselect</code> compatible.
<code>names_to</code>	Name of the new "names" column. Must be a string.
<code>values_to</code>	Name of the new "values" column. Must be a string.
<code>values_drop_na</code>	If TRUE, rows will be dropped that contain NAs.
<code>...</code>	Additional arguments to pass to <code>melt.data.table()</code>

Examples

```
test_df <- data.table(
  x = c(1,2,3),
  y = c(4,5,6),
  z = c("a", "b", "c"))

test_df %>%
  pivot_longer.(c(x, y))

test_df %>%
  pivot_longer.(cols = -z, names_to = "stuff", values_to = "things")
```

pivot_wider.	<i>Pivot data from long to wide</i>
--------------	-------------------------------------

Description

`pivot_wider.()` "widens" data, increasing the number of columns and decreasing the number of rows. The inverse transformation is `pivot_longer.()`. Syntax based on the `tidyr` equivalents.

Usage

```
pivot_wider.(
  .df,
  names_from = name,
  values_from = value,
  id_cols = NULL,
  names_sep = "_",
  values_fn = NULL
)
```

Arguments

<code>.df</code>	the data table to widen
<code>names_from</code>	A pair of arguments describing which column (or columns) to get the name of the output column (<code>name_from</code>), and which column (or columns) to get the cell values from (<code>values_from</code>). <code>tidyselect</code> compatible.
<code>values_from</code>	A pair of arguments describing which column (or columns) to get the name of the output column (<code>name_from</code>), and which column (or columns) to get the cell values from (<code>values_from</code>). <code>tidyselect</code> compatible.
<code>id_cols</code>	A set of columns that uniquely identifies each observation. Defaults to all columns in the data table except for the columns specified in <code>names_from</code> and <code>values_from</code> . Typically used when you have additional variables that is directly related. <code>tidyselect</code> compatible.
<code>names_sep</code>	the separator between the names of the columns
<code>values_fn</code>	Should the data be aggregated before casting? If the formula doesn't identify a single observation for each cell, then aggregation defaults to <code>length</code> with a message.

Examples

```
test_df <- data.table(
  z = rep(c("a", "b", "c"), 2),
  stuff = c(rep("x", 3), rep("y", 3)),
  things = 1:6)

test_df %>%
  pivot_wider(names_from = stuff, values_from = things)

test_df %>%
  pivot_wider(names_from = stuff, values_from = things, id_cols = z)
```

pull.	<i>Pull out a single variable</i>
-------	-----------------------------------

Description

Pull a single variable from a data.table as a vector.

Usage

```
pull.(.df, var = -1)
```

Arguments

.df	A data.frame or data.table
var	The column to pull from the data.table as: <ul style="list-style-type: none"> • a variable name • a positive integer giving the column position • a negative integer giving the column position counting from the right

Examples

```
test_df <- data.table(
  x = c(1,2,3),
  y = c(4,5,6))

test_df %>%
  pull.(y)

test_df %>%
  pull.(1)

test_df %>%
  pull.(-1)
```

relocate.	<i>Relocate a column to a new position</i>
-----------	--

Description

Move a column or columns to a new position

Usage

```
relocate(.df, ..., .before = NULL, .after = NULL)
```

Arguments

.df	A data.frame or data.table
...	A selection of columns to move. tidyselect compatible.
.before	Column to move selection before
.after	Column to move selection after

Examples

```
test_df <- data.table(  
  a = 1:5,  
  b = 1:5,  
  c = c("a","a","a","b","b"),  
  d = c("a","a","a","b","b"))  
  
test_df %>%  
  relocate(c, .before = b)  
  
test_df %>%  
  relocate(a, b, .after = c)  
  
test_df %>%  
  relocate(where(is.numeric), .after = c)
```

rename.	<i>Rename variables by name</i>
---------	---------------------------------

Description

Rename variables from a data.table.

Usage

```
rename(.df, ...)
```

Arguments

.df	A data.frame or data.table
...	Rename expression like dplyr::rename()

Examples

```
dt <- data.table(x = c(1,2,3), y = c(4,5,6))

dt %>%
  rename.(new_x = x,
          new_y = y)
```

rename_all.	<i>Deprecated rename helpers</i>
-------------	----------------------------------

Description

These helpers have been deprecated. Please use `rename_with.()`

Usage

```
rename_all.(.data, .fun, ...)

rename_at.(.data, .vars, .fun, ...)

rename_across.(.data, .cols, .fun, ...)

rename_if.(.data, .predicate, .fun, ...)

dt_rename_across(.data, .cols, .fun, ...)

dt_rename_all(.data, .fun, ...)

dt_rename_if(.data, .predicate, .fun, ...)

dt_rename_at(.data, .fun, ...)
```

Arguments

.data	A data.frame or data.table
.fun	Function to pass
...	Other arguments for the passed function
.vars	vector <code>c()</code> of bare column names for <code>rename_at.()</code> to use
.cols	vector <code>c()</code> of bare column names for <code>rename_across.()</code> to use
.predicate	Predicate to pass to <code>rename_if.()</code>

Examples

```
test_df <- data.table(
  x = 1,
  y = 2,
  double_x = 2,
  double_y = 4)

test_df %>%
  rename_with(~ sub("x", "stuff", .x))

test_df %>%
  rename_with(~ sub("x", "stuff", .x), .cols = c(x, double_x))
```

rename_with.	<i>Rename multiple columns</i>
--------------	--------------------------------

Description

Rename multiple columns with the same transformation

Usage

```
rename_with(.df, .fn, .cols = everything(), ...)
```

Arguments

.df	A data.table or data.frame
.fn	Function to transform the names with.
.cols	Columns to rename. Defaults to all columns. tidyselect compatible.
...	Other parameters to pass to the function

Examples

```
test_df <- data.table(
  x = 1,
  y = 2,
  double_x = 2,
  double_y = 4)

test_df %>%
  rename_with(toupper)

test_df %>%
  rename_with(~ sub("x", "stuff", .x))

test_df %>%
  rename_with(~ sub("x", "stuff", .x), .cols = c(x, double_x))
```

replace_na.	<i>Replace missing values</i>
-------------	-------------------------------

Description

Replace NAs with specified values

Usage

```
replace_na(.x, replace = NA)
```

Arguments

.x	A data.frame/data.table or a vector
replace	If .x is a data frame, a list() of replacement values for specified columns. If .x is a vector, a single replacement value.

Examples

```
test_df <- data.table(
  x = c(1, 2, NA),
  y = c(NA, 1, 2))

# Using replace_na() inside mutate.()
test_df %>%
  mutate(x = replace_na(x, 5))

# Using replace_na() on a data frame
test_df %>%
  replace_na(list(x = 5, y = 0))
```

row_number.	<i>Return row number</i>
-------------	--------------------------

Description

This function is designed to work inside of mutate.()

Usage

```
row_number.()
```

Examples

```
test_df <- data.table(x = c(1,1,1))

test_df %>%
  mutate(row = row_number.())
```

select.	<i>Select or drop columns</i>
---------	-------------------------------

Description

Select or drop columns from a data.table

Usage

```
select.(.df, ...)
```

Arguments

.df	A data.frame or data.table
...	Columns to select or drop. Use named arguments, e.g. new_name = old_name, to rename selected variables. tidyselect compatible.

Examples

```
test_df <- data.table(  
  x = c(1,1,1),  
  y = c(4,5,6),  
  double_x = c(2,2,2),  
  z = c("a","a","b"))  
  
test_df %>%  
  select.(x, y)  
  
test_df %>%  
  select.(x:z)  
  
test_df %>%  
  select.(-y, -z)  
  
test_df %>%  
  select.(starts_with("x"), z)  
  
test_df %>%  
  select.(where(is.character), x)  
  
test_df %>%  
  select.(stuff = x, y)
```

separate.	<i>Separate a character column into multiple columns</i>
-----------	--

Description

Separates a single column into multiple columns using a user supplied separator or regex.

If a separator is not supplied one will be automatically detected.

Note: Using automatic detection or regex will be slower than simple separators such as "," or ".".

Usage

```
separate(.df, col, into, sep = "[^[:alnum:]]+", remove = TRUE, ...)
```

Arguments

.df	A data.frame or data.table
col	The column to split into multiple columns
into	New column names to split into. A character vector.
sep	Separator to split on. Can be specified or detected automatically
remove	If TRUE, remove the input column from the output data.table
...	Further argument to pass to data.table::tstrsplit

Examples

```
test_df <- data.table(x = c("a", "a.b", "a.b", NA))

# "sep" can be automatically detected (slower)
test_df %>%
  separate(x, into = c("c1", "c2"))

# Faster if "sep" is provided
test_df %>%
  separate(x, into = c("c1", "c2"), sep = ".")
```

separate_rows.	<i>Separate a collapsed column into multiple rows</i>
----------------	---

Description

If a column contains observations with multiple delimited values, separate them each into their own row.

Usage

```
separate_rows(.df, ..., sep = "[^[:alnum:]].]", convert = FALSE)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>...</code>	Columns to separate across multiple rows. tidyselect compatible
<code>sep</code>	Separator delimiting collapsed values
<code>convert</code>	If TRUE, runs <code>type.convert()</code> on the resulting column. Useful if the resulting column should be type integer/double.

Examples

```
test_df <- data.table(
  x = 1:3,
  y = c("a", "d,e,f", "g,h"),
  z = c("1", "2,3,4", "5,6")
)

separate_rows(test_df, y, z)

separate_rows(test_df, y, z, convert = TRUE)
```

slice.	<i>Choose rows in a data.table</i>
--------	------------------------------------

Description

Choose rows in a data.table. Grouped data.tables grab rows within each group.

Usage

```
slice(.df, ..., .by = NULL)

slice_head(.df, n = 5, .by = NULL)

slice_tail(.df, n = 5, .by = NULL)

slice_max(.df, order_by, n = 1, .by = NULL)

slice_min(.df, order_by, n = 1, .by = NULL)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>...</code>	Integer row values
<code>.by</code>	Columns to group by
<code>n</code>	Number of rows to grab
<code>order_by</code>	Variable to arrange by

Examples

```
test_df <- data.table(
  x = c(1,2,3,4),
  y = c(4,5,6,7),
  z = c("a", "a", "a", "b"))

test_df %>%
  slice.(1:3)

test_df %>%
  slice.(1, 3)

test_df %>%
  slice.(1, .by = z)

test_df %>%
  slice_head.(1, .by = z)

test_df %>%
  slice_tail.(1, .by = z)

test_df %>%
  slice_max.(order_by = x, .by = z)

test_df %>%
  slice_min.(order_by = y, .by = z)
```

summarize.

Aggregate data using summary statistics

Description

Aggregate data using summary statistics such as mean or median. Can be calculated by group.

Usage

```
summarize.(df, ..., .by = NULL, .sort = FALSE)
```

```
summarise.(df, ..., .by = NULL, .sort = FALSE)
```

Arguments

- | | |
|-----|---|
| .df | A data.frame or data.table |
| ... | Aggregations to perform |
| .by | Columns to group by. <ul style="list-style-type: none"> • A single column can be passed with .by = d. • Multiple columns can be passed with .by = c(c, d) |

- tidyselect can be used:
 - Single predicate: `.by = where(is.character)`
 - Multiple predicates: `.by = c(where(is.character), where(is.factor))`
 - A combination of predicates and column names: `.by = c(where(is.character), b)`
- `.sort` *experimental*: Should the resulting data.table be sorted by the grouping columns?

Examples

```
test_df <- data.table(
  a = c(1,2,3),
  b = c(4,5,6),
  c = c("a", "a", "b"),
  d = c("a", "a", "b"))

test_df %>%
  summarize.(avg_a = mean(a),
             max_b = max(b),
             .by = c)

test_df %>%
  summarize.(avg_a = mean(a),
             .by = c(c, d))
```

<code>summarize_across.</code>	<i>Summarize multiple columns</i>
--------------------------------	-----------------------------------

Description

Summarize multiple columns simultaneously

Usage

```
summarize_across.(
  .df,
  .cols = everything(),
  .fns,
  ...,
  .by = NULL,
  .names = NULL
)

summarise_across.(
  .df,
  .cols = everything(),
  .fns,
  ...,
  .by = NULL,
  .names = NULL
)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>.cols</code>	vector <code>c()</code> of unquoted column names. tidyselect compatible.
<code>.fns</code>	Functions to pass. Can pass a list of functions.
<code>...</code>	Other arguments for the passed function
<code>.by</code>	Columns to group by
<code>.names</code>	A glue specification that helps with renaming output columns. <code>{.col}</code> stands for the selected column, and <code>{.fn}</code> stands for the name of the function being applied. The default (NULL) is equivalent to " <code>{.col}</code> " for a single function case and " <code>{.col}_{.fn}</code> " when a list is used for <code>.fns</code> .

Examples

```
test_df <- data.table(a = 1:3,
                     b = 4:6,
                     z = c("a", "a", "b"))

# Pass a single function
test_df %>%
  summarize_across(c(a, b), mean, na.rm = TRUE)

# Single function using purrr style interface
test_df %>%
  summarize_across(c(a, b), ~ mean(.x, na.rm = TRUE))

# Passing a list of functions (with .by)
test_df %>%
  summarize_across(c(a, b), list(mean, max), .by = z)

# Passing a named list of functions (with .by)
test_df %>%
  summarize_across(c(a, b),
                    list(avg = mean,
                         max = ~ max(.x)),
                    .by = z)

# Use the `.names` argument for more naming control
test_df %>%
  summarize_across(c(a, b),
                    list(avg = mean,
                         max = ~ max(.x)),
                    .by = z,
                    .names = "{.col}_test_{.fn}")
```

tidytable	<i>Build a data.table/tidytable</i>
-----------	-------------------------------------

Description

tidytable() constructs a data.table, but one with nice printing features. As such it can be used exactly like a data.table would be used.

Usage

```
tidytable(...)
```

Arguments

... Arguments passed to data.table()

Examples

```
tidytable(x = c(1,2,3), y = c(4,5,6))
```

top_n.	<i>Select top (or bottom) n rows (by value)</i>
--------	---

Description

Select the top or bottom entries in each group, ordered by wt.

Usage

```
top_n(.df, n = 5, wt = NULL, .by = NULL)
```

```
dt_top_n(.df, n = 5, wt = NULL, .by = NULL)
```

Arguments

.df	A data.frame or data.table
n	Number of rows to return
wt	Optional. The variable to use for ordering. If NULL uses the last column in the data.table.
.by	Columns to group by

Examples

```
test_df <- data.table(
  x = 1:5,
  y = 6:10,
  z = c(rep("a", 3), rep("b", 2)))

test_df %>%
  top_n(2, wt = y)

test_df %>%
  top_n(2, wt = y, .by = z)
```

transmute.	<i>Add new variables and drop all others</i>
------------	--

Description

Unlike `mutate()`, `transmute()` keeps only the variables that you create

Usage

```
transmute(.df, ..., .by = NULL)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>...</code>	Columns to create/modify
<code>.by</code>	Columns to group by

Examples

```
mtcars %>%
  transmute(displ_l = disp / 61.0237)
```

uncount.	<i>Uncount a data.table</i>
----------	-----------------------------

Description

Uncount a data.table

Usage

```
uncount(.df, weights, .remove = TRUE, .id = NULL)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>weights</code>	A column containing the weights to uncount by
<code>.remove</code>	If TRUE removes the selected <code>weights</code> column
<code>.id</code>	A string name for a new column containing a unique identifier for the newly uncounted rows.

Examples

```
df <- data.table(x = c("a", "b"), n = c(1, 2))

uncount.(df, n)

uncount.(df, n, .id = "id")
```

<code>unite.</code>	<i>Unite multiple columns by pasting strings together</i>
---------------------	---

Description

Convenience function to paste together multiple columns into one.

Usage

```
unite.(.df, col = "new_col", ..., sep = "_", remove = TRUE, na.rm = FALSE)
```

Arguments

<code>.df</code>	A data.frame or data.table
<code>col</code>	Name of the new column, as a string.
<code>...</code>	Selection of columns. If empty all variables are selected. tidyselect compatible.
<code>sep</code>	Separator to use between values
<code>remove</code>	If TRUE, removes input columns from the data.table.
<code>na.rm</code>	If TRUE, NA values will be not be part of the concatenation

Examples

```
test_df <- tidytable(a = c("a", "a", "a"),
                     b = c("b", "b", "b"),
                     c = c("c", "c", NA))

test_df %>%
  unite("new_col", b, c)

test_df %>%
```

```

unite("new_col", where(is.character))

test_df %>%
  unite("new_col", b, c, remove = FALSE)

test_df %>%
  unite("new_col", b, c, na.rm = TRUE)

test_df %>%
  unite()

```

unnest.	<i>Unnest a nested data.table</i>
---------	-----------------------------------

Description

Unnest a nested data.table.

Usage

```

unnest.(
  .df,
  ...,
  .drop = TRUE,
  names_sep = NULL,
  names_repair = "unique",
  .keep_all = deprecated()
)

```

Arguments

.df	A nested data.table
...	Columns to unnest. If empty, unnests all list columns. tidyselect compatible.
.drop	Should list columns that were not unnested be dropped
names_sep	<p>If NULL, the default, the inner column names will become the new outer column names.</p> <p>If a string, the name of the outer column will be appended to the beginning of the inner column names, with names_sep used as a separator.</p>
names_repair	Treatment of duplicate names. See <code>?vctrs::vec_as_names</code> for options/details.
.keep_all	Deprecated. Please use <code>.drop = FALSE</code> to keep unused list columns.

Examples

```
nested_df <- data.table(
  a = 1:10,
  b = 11:20,
  c = c(rep("a", 6), rep("b", 4)),
  d = c(rep("a", 4), rep("b", 6))) %>%
  nest_by.(c, d) %>%
  mutate.(pulled_vec = map.(data, ~ pull.(.x, a)))

nested_df %>%
  unnest.(data)

nested_df %>%
  unnest.(data, names_sep = "_")

nested_df %>%
  unnest.(data, pulled_vec)
```

%notin%	<i>notin operator</i>
---------	-----------------------

Description

notin operator

Usage

```
x %notin% y
```

Arguments

x	vector or NULL
y	vector or NULL

Examples

```
test_df <- tidytable(x = 1:4, y = 1:4)

test_df %>%
  filter.(x %notin% c(2, 4))
```

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