

Package ‘journalR’

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Type Package

Title Formatting Tools for Scientific Journal Writing

Version 0.2.1

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Description Scientific journal numeric formatting policies implemented in code.
Emphasis on formatting mean/upper/lower sets of values. Convert raw numeric triplet value vectors to formatted text for journal submission. For example `c(2e6, 1e6, 3e6)` becomes `2.00 million (1.00--3.00)`.
Lancet and Nature have built-in styles for rounding and punctuation marks.
Users may extend journal styles arbitrarily.
Three metrics are supported; proportions, percentage points, and counts.
Magnitudes for all metrics are discovered automatically.

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Encoding UTF-8

Depends R (>= 4.2.0)

Imports checkmate, data.table, glue

Suggests devtools (>= 2.4.5), testthat (>= 3.0.0)

Config/testthat/edition 3

RoxygenNote 7.3.2

URL <https://github.com/epi-sam/journalR>

BugReports <https://github.com/epi-sam/journalR/issues>

NeedsCompilation no

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en_dash	<i>En-dash</i>
---------	----------------

Description

Standard for "x – y" and Lancet negative: ("U2013")

Usage

en_dash()

Value

[chr] en-dash character

See Also

Other marks: [mid_dot\(\)](#), [thin_space\(\)](#)

Examples

```
en_dash()
```

fmt_magnitude	<i>Format magnitude</i>
---------------	-------------------------

Description

Format a numeric vector into a string with specified magnitude (billion, million, thousand).

Usage

```
fmt_magnitude(
  x,
  digits = 1,
  nsmall = 1,
  decimal.mark = ".",
  mag = NULL,
  label_thousands = FALSE
)
```

Arguments

x	[num] numeric vector
digits	[int: default 1L] passed to ‘round()’
nsmall	[int: default 1L] passed to ‘format()’
decimal.mark	[chr: default "."] decimal mark passed to ‘format()’
mag	[chr c("b", "m", "t")] magnitude (billion, million, thousand) passed to set_magnitude()
label_thousands	[lgl: default FALSE] allow thousands magnitude? Not Lancet-valid. Passed to ‘set_magnitude()’

Details

Unaware of schema, just a hard-coded git-er-done function.

Caution - thousands magnitude is not Lancet compliant.

Value

[chr] formatted string

See Also

Other vector_formats: [format_oxford_comma\(\)](#), [fround\(\)](#), [fround_count\(\)](#), [fround_dtype\(\)](#), [fround_dtype_lancet\(\)](#), [fround_props\(\)](#)

Other magnitudes: [set_magnitude\(\)](#)

Examples

```
fmt_magnitude(123456789)
```

format_journal_clu	<i>Format central, lower, upper value triplets for journal presentation</i>
--------------------	---

Description

Defaults are generic. This function allows special formatting marks to be applied by journal. Use ‘format_lancet_clu()’ for Lancet-specific formatting. Use ‘format_nature_clu()’ for Nature-specific formatting.

Usage

```
format_journal_clu(central, lower, upper, d_type, style_name = "nature")
```

Arguments

central	[num] central, point_estimate value vector
lower	[num] lower bound vector
upper	[num] upper bound vector
d_type	[chr c(prop, pp, count)] data type - proportion, percentage
style_name	[chr: default 'nature'] style name - controls rounding and formatting.

Details

Takes three vectors as main arguments for data.table-friendly vectorization.

‘central’ could be mean, median, point_estimate

Transform c(central = 0.994, lower = 0.984, upper = 0.998) to "99.4 (98.4–99.8)"

Accounts for negative values, and UIs that cross zero. Checks if central, lower, upper values are in the correct order.

Value

[chr] formatted string vector

See Also

Other styled_formats: [format_journal_df\(\)](#), [format_lancet_clu\(\)](#), [format_lancet_df\(\)](#), [format_means_df\(\)](#), [format_nature_clu\(\)](#), [format_nature_df\(\)](#), [fround_clu_triplet\(\)](#), [new_style\(\)](#)

Examples

```
format_journal_clu(
  central = c(0.994, -0.994)
  , lower = c(0.984, -0.998)
  , upper = c(0.998, -0.984)
  , d_type = "prop"
)
```

format_journal_df	<i>Return a table with formatted central, lower, upper</i>
-------------------	--

Description

Assumes a single data-type (d_type) for the whole table (e.g. 'prop', 'pp', 'count')

Usage

```
format_journal_df(
  df,
  d_type,
  new_var = "clu_fmt",
  style_name = "nature",
  central_var = "mean",
  lower_var = "lower",
  upper_var = "upper",
  remove_clu_columns = TRUE
)
```

Arguments

df	[data.frame, data.table]
d_type	[chr c('prop', 'pp', or 'count')] a single data type
new_var	[chr: default 'clu_fmt'] name of new formatted column
style_name	[chr: default 'nature'] style name - controls rounding and formatting.
central_var	[chr: default 'mean'] name of central tendency variable
lower_var	[chr: default 'lower'] name of lower bound variable
upper_var	[chr: default 'upper'] name of upper bound variable
remove_clu_columns	[lgl: default TRUE] remove central, lower, upper variables after formatting?

Value

[data.frame] data.frame, data.table with new 'clu_fmt' column

See Also

Other styled_formats: [format_journal_clu\(\)](#), [format_lancet_clu\(\)](#), [format_lancet_df\(\)](#), [format_means_df\(\)](#), [format_nature_clu\(\)](#), [format_nature_df\(\)](#), [fround_clu_triplet\(\)](#), [new_style\(\)](#)

Examples

```
df <- data.frame(
  location_id = c(1, 2, 3)
  , mean = c(0.1234, 0, -0.3456)
  , lower = c(0.1134, -0.2245, -0.4445)
  , upper = c(0.1334, 0.2445, 0.3556)
)
format_journal_df(df, d_type = "prop")

DF <- data.frame(
  location_id = c(1, 2, 3)
  , mean = c(0.1234, 0, -0.3456)
  , lower = c(0.1134, -0.2245, -0.4445)
  , upper = c(0.1334, 0.2445, 0.3556)
)
format_journal_df(DF, d_type = "prop")
```

format_lancet_clu	<i>Format central, lower, upper value triplets for Lancet journal presentation</i>
-------------------	--

Description

Format central, lower, upper value triplets for Lancet journal presentation

Usage

```
format_lancet_clu(central, lower, upper, d_type)
```

Arguments

central	[num] central, point_estimate value vector
lower	[num] lower bound vector
upper	[num] upper bound vector
d_type	[chr c(prop, pp, count)] data type - proportion, percentage

Value

[chr] formatted string vector

See Also

Other styled_formats: [format_journal_clu\(\)](#), [format_journal_df\(\)](#), [format_lancet_df\(\)](#), [format_means_df\(\)](#), [format_nature_clu\(\)](#), [format_nature_df\(\)](#), [fround_clu_triplet\(\)](#), [new_style\(\)](#)

Examples

```
format_lancet_clu(
  central = c(0.994, -0.994)
  , lower = c(0.984, -0.998)
  , upper = c(0.998, -0.984)
  , d_type = "prop"
)
```

format_lancet_df	<i>Return a table with formatted central, lower, upper for Lancet journal</i>
------------------	---

Description

Assumes a single data-type (d_type) for the whole table (e.g. 'prop', 'pp', 'count')

Usage

```
format_lancet_df(
  df,
  d_type,
  new_var = "clu_fmt",
  central_var = "mean",
  lower_var = "lower",
  upper_var = "upper",
  remove_clu_columns = TRUE
)
```

Arguments

df	[data.table] with central, lower, upper columns
d_type	[chr c(prop', 'pp', 'count')] data type - proportion, percentage point or count
new_var	[chr: default 'clu_fmt'] name of new formatted column
central_var	[chr: default 'mean'] name of central tendency e.g. 'point_estimate'
lower_var	[chr: default 'lower']
upper_var	[chr: default 'upper']
remove_clu_columns	[lgl: default TRUE] remove central, lower, upper columns?

Value

[data.frame, data.table] with mean_95_UI_formatted column, and central, lower, upper columns removed (if specified)

See Also

Other styled_formats: [format_journal_clu\(\)](#), [format_journal_df\(\)](#), [format_lancet_clu\(\)](#), [format_means_df\(\)](#), [format_nature_clu\(\)](#), [format_nature_df\(\)](#), [fround_clu_triplet\(\)](#), [new_style\(\)](#)

Examples

```
df <- data.frame(
  location_id = 1
  , location_name = "Global"
  , me_name = "vacc_dpt1"
  , mean = 55.8e6
  , lower = 50.7e6
  , upper = 60.7e6
)
format_lancet_df(df = df, d_type = "count", central_var = 'mean')
```

format_means_df	<i>Format multiple data.frame 'mean_*' columns for presentation (by data type).</i>
-----------------	---

Description

Format one or more 'mean_' columns by magnitude, data_type, and style.

Usage

```
format_means_df(df, d_type, central_var = "mean", style_name = "nature")
```

Arguments

df	[data.table] input data.table with one or more 'mean_' columns
d_type	[chr c('prop', 'pp', or 'count')] a single data type
central_var	[chr: default 'mean'] prefix of mean variable names to format. Implemented as e.g. "^mean[_]*" to capture 'mean', 'mean_1990', 'mean_2000', etc.
style_name	[chr: default 'nature'] style name - controls rounding and formatting.

Details

BEWARE: Does not have sophisticated count-type data handling like 'format_journal_clu()'. This is a simple formatter for multiple mean columns. Use with caution.

Value

[data.table] copy of input data.table with formatted mean column(s)

See Also

Other styled_formats: [format_journal_clu\(\)](#), [format_journal_df\(\)](#), [format_lancet_clu\(\)](#), [format_lancet_df\(\)](#), [format_nature_clu\(\)](#), [format_nature_df\(\)](#), [fround_clu_triplet\(\)](#), [new_style\(\)](#)

Examples

```
df <- data.frame(
  location_id = c(1, 2, 3)
  , mean_1990 = c(100, 1e6, 1e9)
  , mean_2000 = c(200, 2e6, 2e-1)
)
format_means_df(df, d_type = "count")
```

format_nature_clu	<i>Format central, lower, upper value triplets for Nature journal presentation</i>
-------------------	--

Description

Format central, lower, upper value triplets for Nature journal presentation

Usage

```
format_nature_clu(central, lower, upper, d_type)
```

Arguments

central	[num] central, point_estimate value vector
lower	[num] lower bound vector
upper	[num] upper bound vector
d_type	[chr c(prop, pp, count)] data type - proportion, percentage

Value

[chr] formatted string vector

See Also

Other styled_formats: [format_journal_clu\(\)](#), [format_journal_df\(\)](#), [format_lancet_clu\(\)](#), [format_lancet_df\(\)](#), [format_means_df\(\)](#), [format_nature_df\(\)](#), [fround_clu_triplet\(\)](#), [new_style\(\)](#)

Examples

```
format_nature_clu(
  central = c(0.994, -0.994)
  , lower = c(0.984, -0.998)
  , upper = c(0.998, -0.984)
  , d_type = "prop"
)
```

format_nature_df	<i>Return a table with formatted central, lower, upper for Nature journal</i>
------------------	---

Description

Return a table with formatted central, lower, upper for Nature journal

Usage

```
format_nature_df(
  df,
  d_type,
  new_var = "clu_fmt",
  central_var = "mean",
  lower_var = "lower",
  upper_var = "upper",
  remove_clu_columns = TRUE
)
```

Arguments

df	[data.table]
d_type	[chr c('prop', 'pp', or 'count')] a single data type
new_var	[chr: default 'clu_fmt'] name of new formatted column
central_var	[chr: default 'mean'] name of central tendency variable
lower_var	[chr: default 'lower'] name of lower bound variable
upper_var	[chr: default 'upper'] name of upper bound variable
remove_clu_columns	[lgl: default TRUE] remove central, lower, upper variables after

Value

[data.table] copy of input data.table with new 'clu_fmt' column

See Also

Other styled_formats: [format_journal_clu\(\)](#), [format_journal_df\(\)](#), [format_lancet_clu\(\)](#), [format_lancet_df\(\)](#), [format_means_df\(\)](#), [format_nature_clu\(\)](#), [fround_clu_triplet\(\)](#), [new_style\(\)](#)

Examples

```
df <- data.frame(
  location_did = 1
  , location_name = "Global"
  , me_name = "vacc_dpt1"
  , mean = 55.8e6
)
```

```
    , lower      = 50.7e6
    , upper      = 60.7e6
  )
format_nature_df(df = df, d_type = "count", central_var = 'mean')
```

format_oxford_comma *Format vector of items with Oxford comma*

Description

Format vector of items with Oxford comma

Usage

```
format_oxford_comma(vec, sep = "and")
```

Arguments

vec [any] vector of items to format
sep [chr: default "and"] separator before last item

Value

[chr] formatted string with Oxford comma

See Also

Other vector_formats: [fmt_magnitude\(\)](#), [fround\(\)](#), [fround_count\(\)](#), [fround_dtype\(\)](#), [fround_dtype_lancet\(\)](#), [fround_props\(\)](#)

Examples

```
format_oxford_comma(1:2)
format_oxford_comma(1:3)
format_oxford_comma(1:3, "or")
```

fround	<i>Format and round</i>
--------	-------------------------

Description

Unaware of data-type or schema, just a hard-coded git-er-done function.

Usage

```
fround(x, digits = 1L, nsmall = 1L, decimal.mark = ".")
```

Arguments

x	[num] numeric vector
digits	[integer] passed to ‘round()’
nsmall	[integer] passed to ‘format()’
decimal.mark	[chr] passed to ‘format()’

Value

[chr] formatted string

See Also

Other vector_formats: [fmt_magnitude\(\)](#), [format_oxford_comma\(\)](#), [fround_count\(\)](#), [fround_dtype\(\)](#), [fround_dtype_lancet\(\)](#), [fround_props\(\)](#)

Examples

```
fround(0.123456789)
fround(0.123456789, digits = 3)
fround(0.123456789, digits = 3, nsmall = 4)
```

fround_dtype	<i>Format and round with data-type suffix</i>
--------------	---

Description

Unaware of schema, just a hard-coded git-er-done function.

Usage

```
fround_dtype(x, d_type = "prop", digits = 1L, nsmall = 1L, decimal.mark = ".")
```

Arguments

x	[num] numeric value
d_type	[chr c('prop', 'pp', or 'count')] data type - proportion, percentage point or count
digits	[integer: default 1L] passed to 'round()'
nsmall	[integer: default 1L] passed to 'format()'
decimal.mark	[chr: default "."] decimal mark passed to 'format()'

Value

[chr] formatted string

See Also

Other vector_formats: [fmt_magnitude\(\)](#), [format_oxford_comma\(\)](#), [fround\(\)](#), [fround_count\(\)](#), [fround_dtype_lancet\(\)](#), [fround_props\(\)](#)

Examples

```
fround_dtype(0.123456789)
fround_dtype(0.123456789, 'pp', 3, 4)
fround_dtype(c(55.8346, 123.456789), 'count', 3, 4, ".")
```

fround_dtype_lancet *Format and round with data-type suffix*

Description

Lancet-specific wrapper for 'fround_dtype()', using mid-dot as decimal mark.

Usage

```
fround_dtype_lancet(
  x,
  d_type = "prop",
  digits = 1L,
  nsmall = 1L,
  decimal.mark = mid_dot()
)
```

Arguments

x	[num] numeric value
d_type	[chr c('prop', 'pp', or 'count')] data type - proportion, percentage point or count
digits	[integer: default 1L] passed to 'round()'
nsmall	[integer: default 1L] passed to 'format()'
decimal.mark	[chr: default mid_dot()] decimal mark passed to 'format()'

Value

[chr] formatted string

See Also

Other vector_formats: [fmt_magnitude\(\)](#), [format_oxford_comma\(\)](#), [fround\(\)](#), [fround_count\(\)](#), [fround_dtype\(\)](#), [fround_props\(\)](#)

Examples

```
fround_dtype_lancet(0.123456789)
fround_dtype_lancet(0.123456789, 'pp', 3, 4)
fround_dtype_lancet(c(55.8346, 123.456789), 'count', 3, 4, ".")
```

get_data_types

Get data types

Description

Centrally managed definition for all allowed data types.

Usage

```
get_data_types()
```

Value

[chr] vector of allowed data types

See Also

Other data_types: [get_data_type_labels\(\)](#)

Examples

```
get_data_types()
```

get_data_type_labels *Get data type labels*

Description

Centrally managed definition for all data type labels.

Usage

```
get_data_type_labels(d_type)
```

Arguments

d_type [chr]

Value

[list] named list of data type labels

See Also

Other data_types: [get_data_types\(\)](#)

Examples

```
get_data_type_labels('prop')
```

get_style *Get a style from the styles dictionary*

Description

Accessor function to retrieve a style from the package's styles dictionary.

Usage

```
get_style(style_name)
```

Arguments

style_name [chr] name of the style to retrieve

Value

[list] the requested style as a named list

See Also

Other styles: [assert_style_schema\(\)](#), [get_style_schema\(\)](#), [new_style\(\)](#), [set_style\(\)](#), [style_lancet\(\)](#), [style_nature\(\)](#)

Examples

```
get_style("lancet")
```

get_style_schema	<i>Get style schema</i>
------------------	-------------------------

Description

Centrally managed definition for all required journal format styles.

Usage

```
get_style_schema()
```

Value

[list] named list of style elements and their expected types

See Also

Other styles: [assert_style_schema\(\)](#), [get_style\(\)](#), [new_style\(\)](#), [set_style\(\)](#), [style_lancet\(\)](#), [style_nature\(\)](#)

Examples

```
get_style_schema()
```

mid_dot	<i>Mid-dot</i>
---------	----------------

Description

Lancet numeric decimal standard: "." ("[\U00B7](#)")

Usage

```
mid_dot()
```

Value

[chr] mid-dot character

See Also

Other marks: [en_dash\(\)](#), [thin_space\(\)](#)

Examples

```
mid_dot()
```

new_style	<i>Make a new style by args</i>
-----------	---------------------------------

Description

Wrapper function to create and set a new style in one step.

Usage

```
new_style(
  style_name,
  prop_digits_round = 1,
  prop_nsmall = 1,
  count_method = "sigfig",
  count_digits_sigfig = 3,
  count_pad_sigfigs = TRUE,
  count_nsmall = 1,
  count_big.mark = ",",
  decimal.mark = ".",
  neg_mark_mean = "-",
  neg_mark_UI = "-",
  UI_only = FALSE,
  UI_text = "",
  assert_clu_order = TRUE,
  is_lancet = FALSE,
  label_thousands = FALSE,
  round_5_up = TRUE
)
```

Arguments

style_name	[chr] name of the style to set
prop_digits_round	[int: default 1] number of digits to round proportions to
prop_nsmall	[int: default 1] minimum number of digits to the right of the decimal point - proportions
count_method	[chr: c("sigfig", "decimal", "int")] choose how to report counts - prioritize sigfigs across mean/lower/upper, hard-set decimals, or leave numbers in integer space.

count_digits_sigfig	[int: default 3] number of significant figures for counts
count_pad_sigfigs	[lgl: default TRUE] signif(5.00, 3) is "5" - do you want to pad the trailing 0s back on - usually TRUE?
count_nsmall	[int: default 1] passed to 'format()' if 'count_method' == 'decimal'
count_big.mark	[chr: default ","] character to use for counts thousand, million, billion separator e.g. ","
decimal.mark	[chr: default "."] decimal mark e.g. "." or 'mid_dot()' for Lancet.
neg_mark_mean	[chr: default "-"] string to describe central value negatives - e.g. "-1 (-2 to 4)" could become "Negative 1 (-2 to 4)"
neg_mark_UI	[chr: default "-"] string to describe negative sign in UI brackets e.g. "1 (-2 to 4)" could become "1 (-2 to 4)" (en-dash)
UI_only	[lgl: default FALSE] Return only UI from 'format_journal_df()' family functions?
UI_text	[chr: default ""] Text to appear inside UI brackets before numbers e.g. "2 (1 - 4)" could become "2 (95%UI 1 - 4)"
assert_clu_order	[lgl: default TRUE] whether to assert CLU relationships (ensure lower < central < upper)
is_lancet	[lgl: default FALSE] TRUE to handle edge-case Lancet count formatting policies
label_thousands	[lgl: default FALSE] whether format counts as e.g. 10,000 as '10 thousand'
round_5_up	[lgl: default TRUE] In R, 'round(1245, 3)' is "1240". Do you want to round to "1250" instead? Default TRUE to conform with common expectations.

Value

[chr] invisible vector of input objects

See Also

Other styles: [assert_style_schema\(\)](#), [get_style\(\)](#), [get_style_schema\(\)](#), [set_style\(\)](#), [style_lancet\(\)](#), [style_nature\(\)](#)

Other styled_formats: [format_journal_clu\(\)](#), [format_journal_df\(\)](#), [format_lancet_clu\(\)](#), [format_lancet_df\(\)](#), [format_means_df\(\)](#), [format_nature_clu\(\)](#), [format_nature_df\(\)](#), [fround_clu_triplet\(\)](#)

Examples

```
new_style(style_name = "my_style")
```

set_magnitude	<i>Define magnitude, magnitude label and denominator for a vector of numeric values.</i>
---------------	--

Description

Support function used on `_central_` (e.g. `mean`) values for later formatting functions.

Usage

```
set_magnitude(x, mag = NULL, label_thousands = FALSE, verbose = TRUE)
```

Arguments

<code>x</code>	[num] numeric vector
<code>mag</code>	[chr: default NULL c(NULL, "T", "B", "M")] NULL (auto-detect), otherwise user-override (not recommended) - (M)illions or (B)illions or (T)housands (thousands are not Lancet-valid)
<code>label_thousands</code>	[lgl: default FALSE] allow (T)housands magnitude? Not Lancet-valid.
<code>verbose</code>	[lgl: default TRUE] warn if <code>label_thousands</code> is TRUE

Details

'Thousands' label is not a Lancet-valid, which uses `ddd<narrow-space>ddd` format. See `'fround_count()'` for details.

Value

[data.frame] with vector elements: `mag`, `mag_label`, and `denom` Each vector element has one item per `length(x)`

See Also

[`fround_count()`]

Other magnitudes: [fmt_magnitude\(\)](#)

Examples

```
set_magnitude(c(1e-6, 1, 1e3, 1e6, 1e9))
```

set_style	<i>Set a new style by list</i>
-----------	--------------------------------

Description

Set a new style by list

Usage

```
set_style(style_name, style_entry)
```

Arguments

style_name	[chr] name of the style to set
style_entry	[list] named list representing the style entry

Value

[chr] invisible vector of input objects, to allow easier un-locking

See Also

Other styles: [assert_style_schema\(\)](#), [get_style\(\)](#), [get_style_schema\(\)](#), [new_style\(\)](#), [style_lancet\(\)](#), [style_nature\(\)](#)

Examples

```
set_style(
  style_name = "my_style"
  , style_entry = list(
    prop_digits_round = 2
    , count_digits_sigfig = 3
    , count_method = "sigfig"
    , count_pad_sigfigs = TRUE
    , prop_nsmall = 1
    , count_nsmall = 1
    , decimal.mark = "."
    , neg_mark_UI = "-"
    , count_big.mark = ","
    , neg_mark_mean = "a decrease of"
    , UI_only = FALSE
    , UI_text = ""
    , assert_clu_order = TRUE
    , is_lancet = FALSE
    , label_thousands = FALSE
    , round_5_up = TRUE
  )
)
```

style_lancet	<i>Lancet style schema</i>
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Description

Pre-defined style schema for Lancet journal formatting

Usage

```
style_lancet()
```

Value

[list] named list representing the lancet style

See Also

Other styles: [assert_style_schema\(\)](#), [get_style\(\)](#), [get_style_schema\(\)](#), [new_style\(\)](#), [set_style\(\)](#), [style_nature\(\)](#)

Examples

```
style_lancet()
```

style_nature	<i>Nature style schema</i>
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Description

The default style for the package.

Usage

```
style_nature()
```

Details

Pre-defined style schema for Nature journal formatting.

Value

[list] named list representing the nature style

See Also

Other styles: [assert_style_schema\(\)](#), [get_style\(\)](#), [get_style_schema\(\)](#), [new_style\(\)](#), [set_style\(\)](#), [style_lancet\(\)](#)

Examples

```
style_nature()
```

```
thin_space
```

```
Thin space
```

Description

Lancet thin space separator for counts 10,000 – 999,999 instead of comma ",": ("U2009")

Usage

```
thin_space()
```

Value

[chr] thin space character

See Also

Other marks: [en_dash\(\)](#), [mid_dot\(\)](#)

Examples

```
thin_space()
```

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