

Package ‘parseLatex’

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Type Package

Title Parse 'LaTeX' Code

Version 0.2.1

Description Exports an enhanced version of the tools::parseLatex() function to handle 'LaTeX' syntax more accurately. Also includes numerous functions for searching and modifying 'LaTeX' source.

License GPL (>= 2)

Encoding UTF-8

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<https://dmurdoch.github.io/parseLatex/>

BugReports <https://github.com/dmurdoch/parseLatex/issues>

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Author Duncan Murdoch [aut, cre],
The R Core Team [ctb, cph]

Maintainer Duncan Murdoch <murdoch.duncan@gmail.com>

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as_LaTeX2	<i>Coerce to LaTeX2</i>
-----------	-------------------------

Description

Coerce to LaTeX2

Usage

as_LaTeX2(x)

latex2(...)

Arguments

x	An object to convert to a LaTeX2 object.
...	Objects to concatenate.

Value

as_{LaTeX}2() converts x to a [LaTeX2](#) object.

latex2() converts the arguments to [LaTeX2](#) objects and concatenates them into a new [LaTeX2](#) object.

defaultCatcodes	<i>The default "catcodes" used by parseLatex.</i>
-----------------	---

Description

The default "catcodes" used by [parseLatex](#).

Usage

```
defaultCatcodes
```

Format

An object of class data.frame with 13 rows and 2 columns.

Details

defaultCatcodes is a dataframe containing the default catcode definitions.

Examples

```
# \makeatletter has no effect by default...
unclass(parseLatex("\makeatletter\internal@macro"))
# ... but the effect can be simulated
atletter <- rbind(defaultCatcodes,
                  data.frame(char="@", catcode=11))
unclass(parseLatex("\makeatletter\internal@macro",
                  catcodes = atletter))
```

deparseLatex	<i>Convert latex object into character vector</i>
--------------	---

Description

Convert latex object into character vector

Usage

```
deparseLatex(x, dropBraces = FALSE)
```

Arguments

<code>x</code>	A latex object.
<code>dropBraces</code>	Whether to drop unnecessary braces.

Value

`deparseLatex` returns character vector corresponding to the parsed Latex.

<code>finders</code>	<i>Miscellaneous low-level finders</i>
----------------------	--

Description

Miscellaneous low-level finders

Usage

```
find_whitespace(items)
find_env(items, envtypes)
find_macro(items, macros)
find_catcode(items, codes)
find_tags(items, tags)
find_char(items, char)
```

Arguments

<code>items</code>	A list of latex items.
<code>envtypes</code>	Which types of environment to look for.
<code>macros</code>	Which types of macros to look for.
<code>codes</code>	Which codes to look for.
<code>tags</code>	Which tags to look for.
<code>char</code>	Which character to look for.

Value

`find_whitespace()` returns the indices of whitespace in `items`.
`find_env()` returns the indices within `items` of environments in `envtypes`.
`find_macro()` returns the index within `items` of instances in `macros`.
`find_catcode()` returns the index within `items`. of specials matching code.

find_tags() returns the index within items. of items with tags matching tags.

find_char() returns the index within items of characters matching char. Only characters marked as SPECIAL by the parser will be found.

find_pattern	<i>Find a pattern in deparsed items</i>
--------------	---

Description

Searches a [LaTeX2](#) list for text using grepl() on deparsed versions of parts of the code. It attempts to find the narrowest match(es) that lie within a single container.

Usage

```
find_pattern(items, pattern, ..., all = FALSE)
```

Arguments

items	A list of latex items.
pattern	Pattern to use in grepl().
...	Additional parameters to pass to grepl.
all	Find all matching, or the first?

Details

find_pattern() does a recursive search in the order items appear in the deparse. If the pattern matches, it attempts to narrow the match by recursing into containers and dropping earlier and later items. It should always return syntactically correct LaTeX code in which the pattern appears.

Value

find_pattern() returns a [LaTeX2range](#) object or (if all is TRUE) a list of them.

Examples

```
latex <- kableExtra::kbl(mtcars[1:2, 1:2], format = "latex", caption = "Sample table")
parsed <- parseLatex(latex)
parsed
loc <- find_pattern(parsed, "RX4 Wag", fixed = TRUE)
loc
print(loc, source = parsed)
```

find_sequence	<i>Find a code sequence</i>
---------------	-----------------------------

Description

Find a code sequence

Usage

```
find_sequence(items, sequence, all = FALSE, ignore_whitespace = TRUE)

items_are_equal(items1, items2)
```

Arguments

items, sequence [LaTeX2](#) objects or lists.
all Whether to return all matches, or just the first.
ignore_whitespace Whether to ignore whitespace in comparisons.
items1, items2 Two [LaTeX2](#) or [LaTeX2item](#) objects.

Value

find_sequence() returns a path or list of paths where sequence occurs within items.
items_are_equal returns a logical indicator of equality after removing source references.

Examples

```
find_sequence(parseLatex("a & b & c"), "b & c")
```

find_tableContent	<i>Functions relating to the data content of a table</i>
-------------------	--

Description

Functions relating to the data content of a table

Usage

```
find_tableContent(table)

tableContent(table)

tableContent(table, asis = FALSE) <- value
```

Arguments

table	A tabular-like environment to work with.
asis	Should newlines be added around the value?
value	The content to be inserted into the cell. This can be a LaTeX2 object, or a character string that will be converted to one.

Details

Unless `asis = TRUE`, `tableContent(table) <- value` will add newlines at the start and end if not present, to make the result more readable.

Value

`find_tableContent()` returns the indices of the entries corresponding to content of the table.

`tableContent()` returns a [LaTeX2](#) object containing all of the table content after the options.

Examples

```
latex <- kableExtra::kbl(mtcars[1:2, 1:2], format = "latex")
parsed <- parseLatex(latex)
table <- parsed[[find_tabular(parsed)]]
table
tableContent(table)

tableContent(table) <- "Mazda RX4 & 21 & 6\\\\"
table
tableContent(table, asis = TRUE) <- "Mazda RX4 & 21 & 6\\\\"
table
```

Description

Functions to work with rows in tables

Usage

```
find_tableRow(table, row)

tableRow(table, row)

tableRow(table, row, asis = FALSE) <- value
```

Arguments

table	A tabular-like environment to work with.
row	row in the table (1 is top row), including rows of labels.
asis	Should a linebreak and newline be added after the value?
value	The content to be inserted into the cell. This can be a LaTeX2 object, or a character string that will be converted to one.

Details

Unless `asis = TRUE`, `tableContent(table) <- value` will add `"\n"` and a newline at the end if not present.

If the row value is higher than the number of rows in the table, blank rows will be added to fill the space between.

Value

`find_tableRow()` returns the indices of the entries corresponding to the content of row `i` of the table.

`tableRow()` returns a [LaTeX2](#) object containing all of the table content in the row.

Examples

```
latex <- kableExtra::kbl(mtcars[1:2, 1:2], format = "latex")
parsed <- parseLatex(latex)
table <- parsed[[find_tabular(parsed)]]
find_tableRow(table, 1)

tableRow(table, 1)

tableRow(table, 5) <- "a & b & c"
table
```

get_contents

Convenience functions to get or set contents of item

Description

Convenience functions to get or set contents of item

Usage

```
get_contents(item)

set_contents(item, value)
```


Arguments

item	An item from a Latex list (or a LaTeX2 list with one item).
value	An object that can be coerced to be a LaTeX2 object.

Value

get_contents returns the contents of the item as a [LaTeX2](#) list.
The original item with the contents replaced by value.

Examples

```
get_contents(parseLatex("{abc}"))
set_contents(parseLatex("{abc}"), "def")
```

get_leftovers	<i>Retrieve source from beyond the end of the document.</i>
---------------	---

Description

Retrieve source from beyond the end of the document.

Usage

```
get_leftovers(text, items = parseLatex(text))
```

Arguments

text	Character vector holding source.
items	Parsed version of text.

Value

The part of text that follows `\end{document}` other than a single newline, named according to the original line numbers.

Note

The line numbering in the output matches what a text editor would see; embedded newlines in text will result in separate lines in the output.

Examples

```
# line: 1           2           3
text <- "\\begin{document}\n\\end{document}\nnotes"
get_leftovers(text)
```

LaTeX2range	<i>Ranges within LaTeX2 lists.</i>
-------------	------------------------------------

Description

Ranges within LaTeX2 lists.

Usage

```
LaTeX2range(path, range)
```

```
## S3 method for class 'LaTeX2range'
print(x, source = NULL, ...)
```

Arguments

path	An integer vector to use as a path.
range	A range of values within the path.
x	Object to print.
source	Optional parsed list from which to extract the range.
...	Ignored.

Details

LaTeX2range objects are lists with path and range entries. path is a recursive index into a [LaTeX2](#) list, and range is a range of entries in the result.

If path is NULL, the object refers to the entire source object. If range is NULL, it refers to the whole [LaTeX2item](#) given by the path.

Value

LaTeX2range() returns a constructed LaTeX2range object.

names	<i>Utility functions finding names and types of objects</i>
-------	---

Description

Utility functions finding names and types of objects

Usage

```
latexTag(item)
catcode(item)
envName(item)
macroName(item)
```

Arguments

`item` A single latex item.

Value

`latexTag()` returns the [LaTeX2](#) tag for the item or NULL.
`catcode()` returns the TeX catcode for the item, or NULL.
`envName()` returns the Latex environment name for an item, or NULL.
`macroName()` returns the Latex macro, or NULL.

options *Find or modify macro or environment options*

Description

Many Latex environments and macros take optional parameters wrapped in square brackets. `find_bracket_options` finds those, assuming they come immediately after the macro.

Some Latex environments and macros take optional parameters wrapped in curly brackets (braces). `find_brace_options` finds those if they immediately follow the environment or macro (and possibly some bracketed options).

Usage

```
find_bracket_options(items, which = 1, start = 1)
bracket_options(items, which = 1, start = 1)
bracket_options(items, which = 1, start = 1, asis = FALSE) <- value
find_brace_options(items, which = 1, start = 1)
brace_options(items, which = 1, start = 1)
brace_options(items, which = 1, start = 1, asis = FALSE) <- value
```

Arguments

items	A list of latex items.
which	Which options do you want? Some macros support more than one set.
start	Start looking at items[[start]].
asis	Should newlines be added around the value?
value	The content to be inserted into the cell. This can be a LaTeX2 object, or a character string that will be converted to one.

Value

find_bracket_options returns indices into items of the options (including the brackets).

bracket_options returns a [LaTeX2](#) object containing the specified options.

find_brace_options returns the index of the block containing the options.

brace_options returns a [LaTeX2](#) object containing the specified options.

Examples

```

parsed <- parseLatex("\\section[a]{b}")
macro <- find_macro(parsed, "\\section")
bracket_options(parsed, start = macro + 1)

bracket_options(parsed, start = macro + 1) <- "Short Title"
parsed

brace_options(parsed, start = macro + 1)

brace_options(parsed, start = macro + 1) <- "Long Title"
parsed

```

parseLatex_fn

Parse LaTeX code

Description

The parseLatex function parses LaTeX source, producing a structured object.

Usage

```

parseLatex(
  text,
  verbose = FALSE,
  verbatim = c("verbatim", "verbatim*", "Sinput", "Soutput"),
  verb = "\\Sexpr",
  catcodes = defaultCatcodes
)

```

```
## S3 method for class 'LaTeX2item'
print(x, ...)

## S3 method for class 'LaTeX2'
print(x, tags = FALSE, ...)
```

Arguments

text	A character vector containing LaTeX source code.
verbose	If TRUE, print debug error messages.
verbatim	A character vector containing the names of \LaTeX environments holding verbatim text.
verb	A character vector containing LaTeX macros that should be assumed to hold verbatim text.
catcodes	A list or dataframe holding LaTeX "catcodes", such as defaultCatcodes .
x	Object to work on.
...	Extra parameters to pass to <code>deparseLatex</code> .
tags	Whether to display LaTeX2 tags.

Details

Some versions of LaTeX such as `pdf \LaTeX` only handle ASCII inputs, while others such as `x \LaTeX` allow Unicode input. `parseLatex` allows Unicode input.

During processing of LaTeX input, an interpreter can change the handling of characters as it goes, using the `\catcode` macro or others such as `\makeatletter`. However, `parseLatex()` is purely a parser, not an interpreter, so it can't do that, but the user can change handling for the whole call using the `catcodes` argument.

`catcodes` should be a list or dataframe with at least two columns:

- `char` should be a column of single characters.
- `catcode` should be a column of integers in the range 0 to 15 giving the corresponding catcode.

During parsing, `parseLatex` will check these values first. If the input character doesn't match anything, then it will be categorized:

- as a letter (catcode 11) using the ICU function `u_hasBinaryProperty(c, UCHAR_ALPHABETIC)` (or `iswalph(c)` on Windows),
- as a control character (catcode 15) if its code point is less than 32,
- as "other" (catcode 12) otherwise.

Value

`parseLatex` returns parsed LaTeX in a list with class "`LaTeX2`". Items in the list have class "`LaTeX2item`".

See Also

`LaTeX2`, `LaTeX2item`

Examples

```
parsed <- parseLatex(r"(fran\c{c}ais)")
parsed
```

parseLatex_pkg *The parseLatex package*

Description

Exports an enhanced version of the tools::parseLatex() function to handle 'LaTeX' syntax more accurately. Also includes numerous functions for searching and modifying 'LaTeX' source.

Author(s)

Maintainer: Duncan Murdoch <murdoch.duncan@gmail.com>

Other contributors:

- The R Core Team [contributor, copyright holder]

See Also

Useful links:

- <https://github.com/dmurdoch/parseLatex>
- <https://dmurdoch.github.io/parseLatex/>
- Report bugs at <https://github.com/dmurdoch/parseLatex/issues>

path_to *Find path to a particular kind of item*

Description

Find path to a particular kind of item

Usage

```
path_to(items, is_fn, ..., all = FALSE)
```

```
get_item(items, path)
```

```
set_item(items, path, value)
```

```
get_container(items, path)
```

```
get_which(path)
```

Arguments

items	A list of latex items.
is_fn	Which test function to use.
...	Additional parameters to pass to is_fn.
all	Find all matching, or the first?
path	Integer vector of subitems
value	A LaTeX2item to set as a value.

Details

path_to() does a recursive search in the order items appear in the deparse.

Value

path_to() returns the recursive path to the first example matching the is_fn conditions, or a list of paths to all matching items.

get_item() returns the item at the given path.

set_item() replaces the item at the given path, and returns the modified version of items.

get_container() returns the item containing the given path

get_which() returns the index of the item within its container.

Examples

```
latex <- kableExtra::kbl(mtcars[1:2, 1:2], format = "latex", caption = "Sample table")
parsed <- parseLatex(latex)
parsed
path <- path_to(parsed, is_fn = is_env,
                envtypes = "tabular")
get_item(parsed, path)
```

reduce_whitespace	<i>Remove excess whitespace recursively</i>
-------------------	---

Description

Remove excess whitespace recursively

Usage

```
reduce_whitespace(items, recursive = TRUE, all = FALSE)
```

Arguments

items	A LaTeX2 object.
recursive	Apply to all lists within items.
all	If TRUE, remove all white space, not just doubles.

Value

items with double spaces or double newlines set to single, and trailing spaces removed (or all whitespace removed, if `all` is TRUE).

Examples

```
parsed <- parseLatex("a {b\n\nc}")
parsed
reduce_whitespace(parsed)
```

<code>set_range</code>	<i>Set items in a LaTeX2 object</i>
------------------------	---

Description

Set items in a [LaTeX2](#) object

Usage

```
set_range(items, range, values)
```

Arguments

<code>items</code>	A LaTeX2 object or other list of LaTeX2item objects.
<code>range</code>	A LaTeX2range object.
<code>values</code>	An object that can be coerced to a LaTeX2 object or (if <code>range\$range</code> is NULL) a LaTeX2item .

Value

`set_range()` replaces the item(s) at the given path, and returns the modified version of `items`.

Examples

```
latex <- kableExtra::kbl(mtcars[1:2, 1:2], format = "latex", caption = "Sample table")
parsed <- parseLatex(latex)
tablepath <- path_to(parsed, is_env, envtypes = "tabular")
range <- LaTeX2range(tablepath, 8)
set_range(parsed, range, "The 8th item")
```

tablecalcs	<i>Calculations on tables</i>
------------	-------------------------------

Description

Calculations on tables

Usage

```
tableNrow(table)
```

```
tableNcol(table)
```

```
tableDim(table)
```

Arguments

table A known tabular-like environment object.

Value

tableNrow() returns the number of rows in the table.

tableNcol() returns the number of columns in the table.

tableDim() returns the number of rows and columns in the table.

Examples

```
latex <- kableExtra::kbl(mtcars[1:2, 1:3], format = "latex")
parsed <- parseLatex(latex)
table <- parsed[[find_tabular(parsed)]]
table
tableNrow(table)
tableNcol(table)
tableDim(table)
```

tableCell	<i>Work with table cells</i>
-----------	------------------------------

Description

These functions work with the content of cells in tabular-like environments. Cells are numbered with the first row (typically column titles) being row 1. Rules (i.e. horizontal lines) are not considered part of a cell.

Usage

```
find_tableCell(table, row, col)

tableCell(table, row, col)

tableCell(table, row, col, asis = FALSE) <- value
```

Arguments

table	A tabular-like environment to work with.
row, col	row and column in the table.
asis	Should blanks be added around the value?
value	The content to be inserted into the cell. This can be a LaTeX2 object, or a character string that will be converted to one.

Details

find_tableCell() returns NA if the requested cell is missing because an earlier cell covered multiple columns. It signals an error if a request is made beyond the bounds of the table.

Unless asis = TRUE, tableContent(table) <- value will add blanks at the start end end if not present, to make the result more readable.

If col is higher than the current table width, the assignment will fail with an error. If only row is too high, blank lines will be added and it should succeed.

Value

find_tableCell() returns the indices of the entries corresponding to the content of the cell (row, col) of the table.

tableCell() returns a [LaTeX2](#) object containing all of the table content in the cell (but not the &).

Examples

```
latex <- kableExtra::kbl(mtcars[1:2, 1:2], format = "latex")
parsed <- parseLatex(latex)
table <- parsed[[find_tabular(parsed)]]
find_tableCell(table, 1, 2)

tableCell(table, 1, 2)

tableCell(table, 5, 2) <- " d "
table
```

tableOption	<i>Functions related to table options.</i>
-------------	--

Description

Functions related to table options.

Usage

```
find_posOption(table)
posOption(table)
posOption(table, asis = FALSE) <- value
find_widthOption(table)
widthOption(table)
widthOption(table, asis = FALSE) <- value
find_columnOptions(table)
columnOptions(table)
columnOptions(table, asis = FALSE) <- value
```

Arguments

table	A known tabular-like environment object, or the contents of one.
asis	Whether to make small modifications in replacement functions.
value	A character string or LaTeX2 object.

Details

Unless `asis == TRUE`, the value for `value` in `posOption(table) <- value` can be specified with or without the enclosing brackets.

Value

`find_posOption()` returns the indices of the entries corresponding to the "pos" option, including the brackets, within the table.

`posOption()` returns a [LaTeX2](#) object containing the "pos" option.

`find_widthOption()` returns the index of the block corresponding to the "width" option, if there is one. Only some tabular-like environments have these.

`widthOption()` returns a [LaTeX2](#) object containing the "width" option, if the table has one.

find_columnOptions() returns the index of the block corresponding to the column spec.

columnOptions() returns a [LaTeX2](#) object containing the "column" options.

Examples

```

latex <- kableExtra::kbl(mtcars[1:2, 1:2], format = "latex")
parsed <- parseLatex(latex)
table <- parsed[[find_tabular(parsed)]]
table
find_posOption(table)

posOption(table)

posOption(table) <- "h"
posOption(table)
find_widthOption(table)

widthOption(table)

find_columnOptions(table)
columnOptions(table)

columnOptions(table) <- "lrr"
table

```

tableRule	<i>Work with rules in tables</i>
-----------	----------------------------------

Description

In LaTeX, "rules" are horizontal lines in a table. These functions let rules be extracted or modified.

Usage

```

find_rules(table)

rules(table)

find_rule(table, row)

rule(table, row)

rule(table, row, asis = FALSE) <- value

```

Arguments

table	A tabular-like environment to work with.
row	The rules will precede the contents of this row. The rule after the final row uses row = tableNrow(table) + 1.

asis	Should a newline be added after the value? If asis = TRUE, it will not be.
value	The content to be inserted into the cell. This can be a LaTeX2 object, or a character string that will be converted to one.

Value

find_rules() returns a list of the indices of rules before each row, including the whitespace following each one.

rules(table) returns a list of the rules before each row. The last entry will be the rule(s) following the last row.

find_rule(table, row) returns the indices of the rule(s) before row.

rule(table, row) returns the indices rule(s) before row.

Examples

```
latex <- kableExtra::kbl(mtcars[1:2, 1:2], format = "latex")
parsed <- parseLatex(latex)
table <- parsed[[find_tabular(parsed)]]
table
find_rules(table)

rules(table)

find_rule(table, 1)

rule(table, 1)

rule(table, 2) <- "\\midrule"
table
```

tables

Functions related to parsing LaTeX tables

Description

Functions related to parsing LaTeX tables

Usage

```
is_Tabular(item)

find_tabular(items, start = 1)
```

Arguments

item	An item from a LaTeX2 list object.
items	A LaTeX2 list object.
start	Where to start looking.

Value

`is_Tabular()` returns boolean indicating if this is a tabular-like environment.

`find_tabular()` returns the index of the first tabular-like environment, or NA if none is found.

Examples

```
latex <- kableExtra::kbl(mtcars[1:2, 1:2], format = "latex")
parsed <- parseLatex(latex)
is_Tabular(parsed[[2]])
```

```
find_tabular(parsed)
table <- parsed[[find_tabular(parsed)]]
table
```

 tests

Test objects

Description

Test objects

Usage

```
is_env(item, envtypes = NULL)
```

```
is_macro(item, macros = NULL)
```

```
is_block(item)
```

```
is_bracket(item, bracket)
```

```
is_whitespace(item)
```

Arguments

`item` An object of class [LaTeX2item](#) to test.

`envtypes` Types of Latex environment to check for, e.g. "table".

`macros` Which macros to match, e.g. "\\caption".

`bracket` Which bracket are we looking for?

Value

`is_env()` returns a boolean if the item matches.

`is_macro()` returns a boolean indicating the match.

`is_block()` returns a boolean indicating whether the item is a block wrapped in curly braces.

`is_bracket()` returns a boolean indicating that the item is a bracket of the specified type.

`is_whitespace()` returns a boolean indicating if the item is a space, tab or newline.

Examples

```
is_bracket(parseLatex("[ ]")[[1]], "[")
```

 Utilities

Miscellaneous utilities

Description

Miscellaneous utilities

Usage

```
drop_items(items, which)
```

```
select_items(items, which)
```

```
drop_whitespace(items)
```

```
include_whitespace(items, which)
```

```
split_list(items, splits)
```

```
split_latex(items, splits)
```

```
new_block(items)
```

Arguments

`items` A [LaTeX2](#) object or list of items.

`which` Which items to operate on.

`splits` Which items divide the parts?

Value

drop_items() returns the list of items with specific items removed.

select_items() returns the list of subsetted items.

drop_whitespace() returns the items with whitespace (blanks, tabs, newlines) removed.

include_whitespace() returns which with following whitespace (blanks, tabs, newlines) included.

split_list() returns a list of pieces separated at the splits.

split_latex() returns a list of pieces separated at the splits. Each piece is marked as a [LaTeX2](#) object.

A BLOCK item containing the items.

Note

drop_whitespace() will drop the whitespace that separates text items, so deparsing will merge them into a single item.

See Also

drop_whitespace() does not act recursively; use [reduce_whitespace](#) for that.

Examples

```
new_block(parseLatex("abc"))
```

vector_to_latex2	<i>Convert vector to items</i>
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Description

Convert vector to items

Usage

```
vector_to_latex2(x)
```

Arguments

x A list or vector to convert.

Value

A [LaTeX2](#) object containing the entries of x concatenated.

Examples

```
print(vector_to_latex2(1:3), tags = TRUE)
```

vector_to_row	<i>Convert vector to table row</i>
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Description

Convert vector to table row

Usage

```
vector_to_row(cells, asis = FALSE, linebreak = TRUE)
```

Arguments

cells	A list or vector of cell contents.
asis	If FALSE, add blanks around cell contents.
linebreak	If TRUE, add a line break marker.

Value

A [LaTeX2](#) object which could be a row in a tabular object.

Examples

```
vector_to_row(1:3)
```

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