

# Package ‘gibasa’

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**Type** Package

**Title** An Alternative 'Rcpp' Wrapper of 'MeCab'

**Version** 1.1.2

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**Description** A plain 'Rcpp' wrapper for 'MeCab' that can segment Chinese, Japanese, and Korean text into tokens. The main goal of this package is to provide an alternative to 'tidytext' using morphological analysis.

**License** GPL (>= 3)

**URL** <https://paithiov909.github.io/gibasa/>

**BugReports** <https://github.com/paithiov909/gibasa/issues>

**Depends** R (>= 4.2)

**Imports** dplyr, Matrix, Rcpp, RcppParallel, readr, rlang (>= 0.4.11), stringi

**Suggests** roxygen2, testthat (>= 3.0.0), withr

**LinkingTo** Rcpp, RcppParallel

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**Config/testthat/edition** 3

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.3.2

**SystemRequirements** GNU make, MeCab (libmecab-dev (deb), mecab-devel(rpm))

**NeedsCompilation** yes

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---

|           |                         |
|-----------|-------------------------|
| as_tokens | Create a list of tokens |
|-----------|-------------------------|

---

**Description**

Create a list of tokens

**Usage**

```
as_tokens(  
  tbl,  
  token_field = "token",  
  pos_field = get_dict_features()[1],  
  nm = NULL  
)
```

**Arguments**

|             |                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------|
| tbl         | A tibble of tokens out of tokenize().                                                                                       |
| token_field | <data-masked> Column containing tokens.                                                                                     |
| pos_field   | Column containing features that will be kept as the names of tokens. If you don't need them, give a NULL for this argument. |
| nm          | Names of returned list. If left with NULL, "doc_id" field of tbl is used instead.                                           |

**Value**

A named list of tokens.

**Examples**

```
## Not run:
tokenize(
  data.frame(
    doc_id = seq_along(5:8),
    text = ginga[5:8]
  )
) |>
  prettify(col_select = "POS1") |>
  as_tokens()

## End(Not run)
```

---

|         |                                   |
|---------|-----------------------------------|
| bind_lr | <i>Bind importance of bigrams</i> |
|---------|-----------------------------------|

---

**Description**

Calculates and binds the importance of bigrams and their synergistic average.

**Usage**

```
bind_lr(tbl, term = "token", lr_mode = c("n", "dn"), avg_rate = 1)
```

**Arguments**

|          |                                                                                                                       |
|----------|-----------------------------------------------------------------------------------------------------------------------|
| tbl      | A tidy text dataset.                                                                                                  |
| term     | <data-masked> Column containing terms.                                                                                |
| lr_mode  | Method for computing 'FL' and 'FR' values. n is equivalent to 'LN' and 'RN', and dn is equivalent to 'LDN' and 'RDN'. |
| avg_rate | Weight of the 'LR' value.                                                                                             |

**Details**

The 'LR' value is the synergistic average of bigram importance that based on the words and their positions (left or right side).

**Value**

A data.frame.

**See Also**

[doi:10.5715/jnlp.10.27](https://doi.org/10.5715/jnlp.10.27)

**Examples**

```
## Not run:
df <- tokenize(
  data.frame(
    doc_id = seq_along(5:8),
    text = ginga[5:8]
  )
)
bind_lr(df) |>
  head()

## End(Not run)
```

---

bind\_tf\_idf2

*Bind term frequency and inverse document frequency*


---

**Description**

Calculates and binds the term frequency, inverse document frequency, and TF-IDF of the dataset. This function experimentally supports 4 types of term frequencies and 5 types of inverse document frequencies.

**Usage**

```
bind_tf_idf2(
  tbl,
  term = "token",
  document = "doc_id",
  n = "n",
  tf = c("tf", "tf2", "tf3", "itf"),
  idf = c("idf", "idf2", "idf3", "idf4", "df"),
  norm = FALSE,
  rmecab_compat = TRUE
)
```

**Arguments**

|                            |                                                                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>tbl</code>           | A tidy text dataset.                                                                                                                                                                                                                                           |
| <code>term</code>          | <data-masked> Column containing terms.                                                                                                                                                                                                                         |
| <code>document</code>      | <data-masked> Column containing document IDs.                                                                                                                                                                                                                  |
| <code>n</code>             | <data-masked> Column containing document-term counts.                                                                                                                                                                                                          |
| <code>tf</code>            | Method for computing term frequency.                                                                                                                                                                                                                           |
| <code>idf</code>           | Method for computing inverse document frequency.                                                                                                                                                                                                               |
| <code>norm</code>          | Logical; If passed as TRUE, TF-IDF values are normalized being divided with L2 norms.                                                                                                                                                                          |
| <code>rmecab_compat</code> | Logical; If passed as TRUE, computes values while taking care of compatibility with 'RMeCab'. Note that 'RMeCab' always computes IDF values using term frequency rather than raw term counts, and thus TF-IDF values may be doubly affected by term frequency. |

**Details**

Types of term frequency can be switched with `tf` argument:

- `tf` is term frequency (not raw count of terms).
- `tf2` is logarithmic term frequency of which base is  $\exp(1)$ .
- `tf3` is binary-weighted term frequency.
- `itf` is inverse term frequency. Use with `idf="df"`.

Types of inverse document frequencies can be switched with `idf` argument:

- `idf` is inverse document frequency of which base is 2, with smoothed. 'smoothed' here means just adding 1 to raw values after logarithmizing.
- `idf2` is global frequency IDF.
- `idf3` is probabilistic IDF of which base is 2.
- `idf4` is global entropy, not IDF in actual.
- `df` is document frequency. Use with `tf="itf"`.

**Value**

A data.frame.

**Examples**

```
## Not run:
df <- tokenize(
  data.frame(
    doc_id = seq_along(5:8),
    text = ginga[5:8]
  )
) |>
dplyr::group_by(doc_id) |>
```

```
dplyr::count(token) |>
dplyr::ungroup()
bind_tf_idf2(df) |>
head()

## End(Not run)
```

---

build\_sys\_dic

*Build system dictionary*


---

## Description

Builds a UTF-8 system dictionary from source dictionary files.

## Usage

```
build_sys_dic(dic_dir, out_dir, encoding)
```

## Arguments

|          |                                                                                                         |
|----------|---------------------------------------------------------------------------------------------------------|
| dic_dir  | Directory where the source dictionaries are located. This argument is passed as '-d' option argument.   |
| out_dir  | Directory where the binary dictionary will be written. This argument is passed as '-o' option argument. |
| encoding | Encoding of input csv files. This argument is passed as '-f' option argument.                           |

## Details

This function is a wrapper around dictionary compiler of 'MeCab'.

Running this function will create 4 files: 'char.bin', 'matrix.bin', 'sys.dic', and 'unk.dic' in out\_dir.

To use these compiled dictionary, you also need create a dicrc file in out\_dir. A dicrc file is included in source dictionaries, so you can just copy it to out\_dir.

## Value

A TRUE is invisibly returned if dictionary is successfully built.

## Examples

```
if (requireNamespace("withr")) {
  # create a sample dictionary in temporary directory
  build_sys_dic(
    dic_dir = system.file("latin", package = "gibasa"),
    out_dir = tempdir(),
    encoding = "utf8"
  )
  # copy the 'dicrc' file
  file.copy(
```

```

    system.file("latin/dicrc", package = "gibasa"),
    tempdir()
)
# mocking a 'mecabrc' file to temporarily use the dictionary
withr::with_envvar(
  c(
    "MECABRC" = if (.Platform$OS.type == "windows") {
      "nul"
    } else {
      "/dev/null"
    },
    "RCPP_PARALLEL_BACKEND" = "tinythread"
  ),
  {
    tokenize("katta-wokattauresikatta", sys_dic = tempdir())
  }
)
}

```

---

|                |                              |
|----------------|------------------------------|
| build_user_dic | <i>Build user dictionary</i> |
|----------------|------------------------------|

---

## Description

Builds a UTF-8 user dictionary from a csv file.

## Usage

```
build_user_dic(dic_dir, file, csv_file, encoding)
```

## Arguments

|          |                                                                                                       |
|----------|-------------------------------------------------------------------------------------------------------|
| dic_dir  | Directory where the source dictionaries are located. This argument is passed as '-d' option argument. |
| file     | Path to write the user dictionary. This argument is passed as '-u' option argument.                   |
| csv_file | Path to an input csv file.                                                                            |
| encoding | Encoding of input csv files. This argument is passed as '-f' option argument.                         |

## Details

This function is a wrapper around dictionary compiler of 'MeCab'.

Note that this function does not support auto assignment of word cost field. So, you can't leave any word costs as empty in your input csv file. To estimate word costs, use `posDebugRcpp()` function.

## Value

A TRUE is invisibly returned if dictionary is successfully built.

## Examples

```

if (requireNamespace("withr")) {
  # create a sample dictionary in temporary directory
  build_sys_dic(
    dic_dir = system.file("latin", package = "gibasa"),
    out_dir = tempdir(),
    encoding = "utf8"
  )
  # copy the 'dicrc' file
  file.copy(
    system.file("latin/dicrc", package = "gibasa"),
    tempdir()
  )
  # write a csv file and compile it into a user dictionary
  csv_file <- tempfile(fileext = ".csv")
  writeLines(
    c(
      "qa, 0, 0, 5, \u304f\u3041",
      "qi, 0, 0, 5, \u304f\u3043",
      "qu, 0, 0, 5, \u304f",
      "qe, 0, 0, 5, \u304f\u3047",
      "qo, 0, 0, 5, \u304f\u3049"
    ),
    csv_file
  )
  build_user_dic(
    dic_dir = tempdir(),
    file = (user_dic <- tempfile(fileext = ".dic")),
    csv_file = csv_file,
    encoding = "utf8"
  )
  # mocking a 'mecabrc' file to temporarily use the dictionary
  withr::with_envvar(
    c(
      "MECABRC" = if (.Platform$OS.type == "windows") {
        "nul"
      } else {
        "/dev/null"
      },
      "RCPPE_PARALLEL_BACKEND" = "tinythread"
    ),
    {
      tokenize("quensan", sys_dic = tempdir(), user_dic = user_dic)
    }
  )
}

```



## Description

Concatenates sequences of tokens in the tidy text dataset, while grouping them by an expression.

## Usage

```
collapse_tokens(tbl, condition, .collapse = "")
```

## Arguments

|           |                                                           |
|-----------|-----------------------------------------------------------|
| tbl       | A tidy text dataset.                                      |
| condition | <a href="#">&lt;data-masked&gt;</a> A logical expression. |
| .collapse | String with which tokens are concatenated.                |

## Details

Note that this function drops all columns except but 'token' and columns for grouping sequences. So, the returned data.frame has only 'doc\_id', 'sentence\_id', 'token\_id', and 'token' columns.

## Value

A data.frame.

## Examples

```
## Not run:
df <- tokenize(
  data.frame(
    doc_id = "odakyu-sen",
    text = "\u5c0f\u7530\u6025\u7dda"
  )
) |>
  prettify(col_select = "POS1")

collapse_tokens(
  df,
  POS1 == "\u540d\u8a5e" & stringr::str_detect(token, "^[\\p{Han}]+$")
) |>
  head()

## End(Not run)
```

---

|                 |                                   |
|-----------------|-----------------------------------|
| dictionary_info | <i>Get dictionary information</i> |
|-----------------|-----------------------------------|

---

## Description

Returns all dictionary information under the current configuration.

## Arguments

|          |                                                              |
|----------|--------------------------------------------------------------|
| sys_dic  | Character scalar; path to the system dictionary for 'MeCab'. |
| user_dic | Character scalar; path to the user dictionary for 'MeCab'.   |

## Details

To use the `tokenize()` function, there should be a system dictionary for 'MeCab' specified in some 'mecabrc' configuration files with a line `dicdir=<path/to/dir/dictionary/included>`. This function can be used to check if such a configuration file exists.

Currently, this package detects 'mecabrc' configuration files that are stored in the user's home directory or the file specified by the MECABRC environment variable.

If there are no such configuration files, the package tries to fall back to the 'mecabrc' file that is included with default installations of 'MeCab', but this fallback is not guaranteed to work in all cases.

In case there are no 'mecabrc' files available at all, this function will return an empty data.frame.

Note that in this case, the `tokenize()` function will not work even if a system dictionary is manually specified via the `sys_dic` argument. In such a case, you should mock up a 'mecabrc' file to temporarily use the dictionary. See examples for `build_sys_dic()` and `build_user_dic()` for details.

## Value

A data.frame (an empty data.frame if there is no dictionary configured at all).

## Examples

```
## Not run:
dictionary_info()

## End(Not run)
```

---

|              |                                         |
|--------------|-----------------------------------------|
| gbs_tokenize | <i>Tokenize sentences using 'MeCab'</i> |
|--------------|-----------------------------------------|

---

## Description

Tokenize sentences using 'MeCab'

## Usage

```
gbs_tokenize(  
  x,  
  sys_dic = "",  
  user_dic = "",  
  split = FALSE,  
  partial = FALSE,  
  mode = c("parse", "wakati")  
)
```

## Arguments

|          |                                                                                                                                                                                                                                                               |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| x        | A data.frame like object or a character vector to be tokenized.                                                                                                                                                                                               |
| sys_dic  | Character scalar; path to the system dictionary for 'MeCab'. Note that the system dictionary is expected to be compiled with UTF-8, not Shift-JIS or other encodings.                                                                                         |
| user_dic | Character scalar; path to the user dictionary for 'MeCab'.                                                                                                                                                                                                    |
| split    | Logical. When passed as TRUE, the function internally splits the sentences into sub-sentences using <code>stringi::stri_split_boundaries(type = "sentence")</code> .                                                                                          |
| partial  | Logical. When passed as TRUE, activates partial parsing mode. To activate this feature, remember that all spaces at the start and end of the input chunks are already squashed. In particular, trailing spaces of chunks sometimes cause errors when parsing. |
| mode     | Character scalar to switch output format.                                                                                                                                                                                                                     |

## Value

A tibble or a named list of tokens.

---

|                   |                                |
|-------------------|--------------------------------|
| get_dict_features | <i>Get dictionary features</i> |
|-------------------|--------------------------------|

---

### Description

Returns names of dictionary features. Currently supports "unidic17" (2.1.2 src schema), "unidic26" (2.1.2 bin schema), "unidic29" (schema used in 2.2.0, 2.3.0), "cc-cedict", "ko-dic" (mecab-ko-dic), "naist11", "sudachi", and "ipa".

### Usage

```
get_dict_features(
    dict = c("ipa", "unidic17", "unidic26", "unidic29", "cc-cedict", "ko-dic", "naist11",
            "sudachi")
)
```

### Arguments

|      |                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------|
| dict | Character scalar; one of "ipa", "unidic17", "unidic26", "unidic29", "cc-cedict", "ko-dic", "naist11", or "sudachi". |
|------|---------------------------------------------------------------------------------------------------------------------|

### Value

A character vector.

### See Also

See also ['CC-CEDICT-MeCab'](#) and ['mecab-ko-dic'](#).

### Examples

```
get_dict_features("ipa")
```

---

|                     |                                                   |
|---------------------|---------------------------------------------------|
| get_transition_cost | <i>Get transition cost between pos attributes</i> |
|---------------------|---------------------------------------------------|

---

### Description

Gets transition cost between two pos attributes for a given dictionary. Note that the valid range of pos attributes differs depending on the dictionary. If rcAttr or lcAttr is out of range, this function will be aborted.

### Usage

```
get_transition_cost(rcAttr, lcAttr, sys_dic = "", user_dic = "")
```

**Arguments**

|          |                                                                                   |
|----------|-----------------------------------------------------------------------------------|
| rcAttr   | Integer; the right context attribute ID of the right-hand side of the transition. |
| lcAttr   | Integer; the left context attribute ID of the left-hand side of the transition.   |
| sys_dic  | Character scalar; path to the system dictionary for 'MeCab'.                      |
| user_dic | Character scalar; path to the user dictionary for 'MeCab'.                        |

**Value**

An integer scalar.

---

|       |                                                                                          |
|-------|------------------------------------------------------------------------------------------|
| ginga | <i>Whole text of 'Ginga Tetsudo no Yoru' written by Miyazawa Kenji from Aozora Bunko</i> |
|-------|------------------------------------------------------------------------------------------|

---

**Description**

Whole text of 'Ginga Tetsudo no Yoru' written by Miyazawa Kenji from Aozora Bunko

**Usage**

```
ginga
```

**Format**

An object of class character of length 553.

**Details**

A dataset containing the text of Miyazawa Kenji's novel "Ginga Tetsudo no Yoru" (English title: "Night on the Galactic Railroad") which was published in 1934, the year after Kenji's death. Copyright of this work has expired since more than 70 years have passed after the author's death.

The UTF-8 plain text is sourced from <https://www.aozora.gr.jp/cards/000081/card43737.html> and is cleaned of meta data.

**Source**

[https://www.aozora.gr.jp/cards/000081/files/43737\\_ruby\\_19028.zip](https://www.aozora.gr.jp/cards/000081/files/43737_ruby_19028.zip)

**Examples**

```
head(ginga)
```

---

|          |                                   |
|----------|-----------------------------------|
| is_blank | <i>Check if scalars are blank</i> |
|----------|-----------------------------------|

---

**Description**

Check if scalars are blank

**Usage**

```
is_blank(x, trim = TRUE, ...)
```

**Arguments**

|      |                                                                                                                                |
|------|--------------------------------------------------------------------------------------------------------------------------------|
| x    | Object to check its emptiness.                                                                                                 |
| trim | Logical. If passed as TRUE and the object is a character vector, <code>stringi::stri_trim()</code> is applied before checking. |
| ...  | Additional arguments for <code>base::sapply()</code> .                                                                         |

**Value**

Logicals.

**Examples**

```
is_blank(list(c(a = "", b = NA_character_), NULL))
```

---

|             |                                  |
|-------------|----------------------------------|
| lex_density | <i>Calculate lexical density</i> |
|-------------|----------------------------------|

---

**Description**

The lexical density is the proportion of content words (lexical items) in documents. This function is a simple helper for calculating the lexical density of given datasets.

**Usage**

```
lex_density(vec, contents_words, targets = NULL, negate = c(FALSE, FALSE))
```

**Arguments**

|                |                                                                                                                                                     |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| vec            | A character vector.                                                                                                                                 |
| contents_words | A character vector containing values to be counted as contents words.                                                                               |
| targets        | A character vector with which the denominator of lexical density is filtered before computing values.                                               |
| negate         | A logical vector of which length is 2. If passed as TRUE, then respectively negates the predicate functions for counting contents words or targets. |

**Value**

A numeric vector.

**Examples**

```
## Not run:
df <- tokenize(
  data.frame(
    doc_id = seq_along(5:8),
    text = ginga[5:8]
  )
)
df |>
  prettify(col_select = "POS1") |>
  dplyr::group_by(doc_id) |>
  dplyr::summarise(
    noun_ratio = lex_density(POS1,
      "\u540d\u8a5e",
      c("\u52a9\u8a5e", "\u52a9\u52d5\u8a5e"),
      negate = c(FALSE, TRUE)
    ),
    mvr = lex_density(
      POS1,
      c("\u5f62\u5bb9\u8a5e", "\u526f\u8a5e", "\u9023\u4f53\u8a5e"),
      "\u52d5\u8a5e"
    ),
    vnr = lex_density(POS1, "\u52d5\u8a5e", "\u540d\u8a5e")
  )

## End(Not run)
```

---

 mute\_tokens

*Mute tokens by condition*


---

**Description**

Replaces tokens in the tidy text dataset with a string scalar only if they are matched to an expression.

**Usage**

```
mute_tokens(tbl, condition, .as = NA_character_)
```

**Arguments**

|           |                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------|
| tbl       | A tidy text dataset.                                                                                          |
| condition | <a href="#">&lt;data-masked&gt;</a> A logical expression.                                                     |
| .as       | String with which tokens are replaced when they are matched to condition. The default value is NA_character_. |

**Value**

A data.frame.

**Examples**

```
## Not run:
df <- tokenize(
  data.frame(
    doc_id = seq_along(5:8),
    text = ginga[5:8]
  )
) |>
  prettify(col_select = "POS1")

mute_tokens(df, POS1 %in% c("\u52a9\u8a5e", "\u52a9\u52d5\u8a5e")) |>
  head()

## End(Not run)
```

---

ngram\_tokenizer

*Ngrams tokenizer*

---

**Description**

Makes an ngram tokenizer function.

**Usage**

```
ngram_tokenizer(n = 1L)
```

**Arguments**

n                      Integer.

**Value**

ngram tokenizer function

**Examples**

```
bigram <- ngram_tokenizer(2)
bigram(letters, sep = "-")
```



---

|      |                                    |
|------|------------------------------------|
| pack | <i>Pack a data.frame of tokens</i> |
|------|------------------------------------|

---

## Description

Packs a data.frame of tokens into a new data.frame of corpus, which is compatible with the Text Interchange Formats.

## Usage

```
pack(tbl, pull = "token", n = 1L, sep = "-", .collapse = " ")
```

## Arguments

|           |                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------|
| tbl       | A data.frame of tokens.                                                                                  |
| pull      | <data-masked> Column to be packed into text or ngrams body. Default value is token.                      |
| n         | Integer internally passed to ngrams tokenizer function created of <code>gibasa::ngram_tokenizer()</code> |
| sep       | Character scalar internally used as the concatenator of ngrams.                                          |
| .collapse | This argument is passed to <code>stringi::stri_c()</code> .                                              |

## Value

A tibble.

## Text Interchange Formats (TIF)

The Text Interchange Formats (TIF) is a set of standards that allows R text analysis packages to target defined inputs and outputs for corpora, tokens, and document-term matrices.

## Valid data.frame of tokens

The data.frame of tokens here is a data.frame object compatible with the TIF.

A TIF valid data.frame of tokens is expected to have one unique key column (named `doc_id`) of each text and several feature columns of each tokens. The feature columns must contain at least token itself.

## See Also

<https://github.com/ropenscilabs/tif>

**Examples**

```
## Not run:
df <- tokenize(
  data.frame(
    doc_id = seq_along(5:8),
    text = ginga[5:8]
  )
)
pack(df)

## End(Not run)
```

---

|          |                                  |
|----------|----------------------------------|
| prettify | <i>Prettify tokenized output</i> |
|----------|----------------------------------|

---

**Description**

Turns a single character column into features while separating with delimiter.

**Usage**

```
prettify(
  tbl,
  col = "feature",
  into = get_dict_features("ipa"),
  col_select = seq_along(into),
  delim = ", "
)
```

**Arguments**

- tbl            A data.frame that has feature column to be prettified.
- col           [<data-masked>](#) Column containing features to be prettified.
- into          Character vector that is used as column names of features.
- col\_select   Character or integer vector that will be kept in prettified features.
- delim        Character scalar used to separate fields within a feature.

**Value**

A data.frame.

**Examples**

```

prettyfy(
  data.frame(x = c("x,y", "y,z", "z,x")),
  col = "x",
  into = c("a", "b"),
  col_select = "b"
)

## Not run:
df <- tokenize(
  data.frame(
    doc_id = seq_along(5:8),
    text = ginga[5:8]
  )
)
prettyfy(df, col_select = 1:3)
prettyfy(df, col_select = c(1, 3, 6))
prettyfy(df, col_select = c("POS1", "Original"))

## End(Not run)

```

tokenize

*Tokenize sentences using 'MeCab'***Description**

Tokenize sentences using 'MeCab'

**Usage**

```

tokenize(
  x,
  text_field = "text",
  docid_field = "doc_id",
  sys_dic = "",
  user_dic = "",
  split = FALSE,
  partial = FALSE,
  grain_size = 1L,
  mode = c("parse", "wakati")
)

```

**Arguments**

|             |                                                                          |
|-------------|--------------------------------------------------------------------------|
| x           | A data.frame like object or a character vector to be tokenized.          |
| text_field  | <data-masked> String or symbol; column containing texts to be tokenized. |
| docid_field | <data-masked> String or symbol; column containing document IDs.          |

|                         |                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>sys_dic</code>    | Character scalar; path to the system dictionary for 'MeCab'. Note that the system dictionary is expected to be compiled with UTF-8, not Shift-JIS or other encodings.                                                                                         |
| <code>user_dic</code>   | Character scalar; path to the user dictionary for 'MeCab'.                                                                                                                                                                                                    |
| <code>split</code>      | Logical. When passed as TRUE, the function internally splits the sentences into sub-sentences using <code>stringi::stri_split_boundaries(type = "sentence")</code> .                                                                                          |
| <code>partial</code>    | Logical. When passed as TRUE, activates partial parsing mode. To activate this feature, remember that all spaces at the start and end of the input chunks are already squashed. In particular, trailing spaces of chunks sometimes cause errors when parsing. |
| <code>grain_size</code> | Integer value larger than 1. This argument is internally passed to <code>RcppParallel::parallelFor</code> function. Setting a larger chunk size could improve the performance in some cases.                                                                  |
| <code>mode</code>       | Character scalar to switch output format.                                                                                                                                                                                                                     |

**Value**

A tibble or a named list of tokens.

**Examples**

```
## Not run:
df <- tokenize(
  data.frame(
    doc_id = seq_along(5:8),
    text = ginga[5:8]
  )
)
head(df)

## End(Not run)
```

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