

Package ‘rdracor’

April 4, 2024

Type Package

Title Access to the 'DraCor' API

Description Provide an interface for 'Drama Corpora Project' ('DraCor') API: <<https://dracor.org/documentation/api>>.

Version 1.0.3

License GPL (>= 3)

Encoding UTF-8

Imports jsonlite (>= 1.6), utils, data.table (>= 1.12.2), xml2 (>= 1.2.2), igraph (>= 1.2.4.1), httr (>= 1.4.1), tibble (>= 3.1.8), purrr (>= 0.3.5), stringr (>= 1.4.1), tidyr (>= 1.2.1), Rdpack (>= 2.4)

RoxygenNote 7.2.3

RdMacros Rdpack

Suggests testthat (>= 2.1.0)

URL <https://github.com/dracor-org/rdracor>

BugReports <https://github.com/dracor-org/rdracor/issues>

NeedsCompilation no

Author Ivan Pozdniakov [aut, cre] (<<https://orcid.org/0000-0002-2450-7004>>)

Maintainer Ivan Pozdniakov <bucherr@yandex.ru>

Repository CRAN

Date/Publication 2024-04-03 23:40:06 UTC

R topics documented:

dracor_api	2
dracor_api_info	3
dracor_sparql	4
get_character_plays	5
get_dracor_meta	6
get_net_cooccur_edges	7

get_net_cooccur_gexf	8
get_net_cooccur_graphml	9
get_net_cooccur_igraph	10
get_net_cooccur_metrics	12
get_net_relations_igraph	13
get_play_characters	16
get_play_metadata	17
get_play_rdf	18
get_text_chr_spoken	19
get_text_tei	21
label_cooccur_igraph	22
summary.dracor	23
tei_to_df	24

Index	26
--------------	-----------

dracor_api	<i>Send a GET request to DraCor API and parse the results</i>
------------	---

Description

Function `dracor_api()` sends a GET request to DraCor API with a specified expected type and parses results depending on selected expected type.

Usage

```
dracor_api(
  request,
  expected_type = c("application/json", "application/xml", "text/csv", "text/plain"),
  parse = TRUE,
  default_type = FALSE,
  split_text = TRUE,
  as_tibble = TRUE,
  ...
)
```

Arguments

<code>request</code>	Character, valid GET request.
<code>expected_type</code>	Character, 'MIME' type: one of "application/json", "application/xml", "text/csv", "text/plain".
<code>parse</code>	Logical, if TRUE (default value), then a response is parsed depending on <code>expected_type</code> . See details below.
<code>default_type</code>	Logical, if TRUE, default response data type is returned. Therefore, a response is not parsed and <code>parse</code> is ignored. The default value is FALSE.
<code>split_text</code>	Logical, if TRUE, plain text lines are read as different values in a vector instead of returning one character value. Default value is TRUE.

as_tibble	Logical, if TRUE, data frame will be returned as a tidyverse tibble (tbl_df). The default value is TRUE.
...	Other arguments passed to a parser function.

Details

There are four different 'MIME' types (aka internet media type) that can be retrieved for DraCor API, the specific combination of possible 'MIME' types depends on API command. When parse = TRUE is used, the content is parsed depending on selected 'MIME' type in expected_type:

```
application/json  jsonlite::fromJSON()
application/xml  xml2::read_xml()
text/csv        data.table::fread()
text/plain      No need for additional preprocessing
```

Value

A content of a response to GET method to the 'DraCor' API. If parse = FALSE or default_type = TRUE, a single character value is returned. Otherwise, the resulting value is parsed according to a value of default_type parameter. The resulting structure of the output depends on the selected default_type value, the respective function for parsing (see default_type) and additional parameters that are passed to the function for parsing.

See Also

[dracor_sparql](#)

Examples

```
dracor_api("https://dracor.org/api/v1/info", expected_type = "application/json")
```

dracor_api_info	<i>Retrieve 'DraCor' API info</i>
-----------------	-----------------------------------

Description

dracor_api_info() returns information about 'DraCor' API: name of the API, status, existdb version, API version etc.

Usage

```
dracor_api_info(dracor_api_url = NULL)

get_dracor_api_url()

set_dracor_api_url(new_dracor_api_url)
```

Arguments

dracor_api_url Character, 'DraCor' API URL. If NULL (default), the current 'DraCor' API URL is used.

new_dracor_api_url Character, 'DraCor' API URL that will replace the current 'DraCor' API URL.

Functions

- `get_dracor_api_url()`: Returns 'DraCor' API URL in use
- `set_dracor_api_url()`: Set new 'DraCor' API URL (globally), returns NULL

See Also

[dracor_api](#)

Examples

```
dracor_api_info()
dracor_api_info("https://staging.dracor.org/api")
get_dracor_api_url()
```

dracor_sparql

Submit SPARQL queries to DraCor API

Description

`dracor_sparql()` submits SPARQL queries and parses the result.

Usage

```
dracor_sparql(sparql_query = NULL, parse = TRUE, ...)
```

Arguments

sparql_query Character, SPARQL query.

parse Logical, if TRUE the result is parsed by `xml2::read_xml()`, otherwise character value is returned. Default value is TRUE.

... Additional arguments passed to `dracor_api`.

Value

SPARQL xml parsed.

See Also

[get_dracor](#)

Examples

```
dracor_sparql("SELECT * WHERE {?s ?p ?o} LIMIT 10")
# If you want to avoid parsing by xml2::read_xml():
dracor_sparql("SELECT * WHERE {?s ?p ?o} LIMIT 10", parse = FALSE)
```

get_character_plays *Retrieve plays having a character identified by 'Wikidata ID'*

Description

get_character_plays() requests plays that include a character that can be found in 'Wikidata' by its id. get_character_plays() sends a request and parses the result to get those plays as a data frame.

Usage

```
get_character_plays(char_wiki_id)
```

Arguments

char_wiki_id Character value with 'Wikidata ID' for a character. 'Wikidata ID' can be found on https://www.wikidata.org/wiki/Wikidata:Main_Page. Character vector (longer than 1) is not supported.

Value

Data frame, in which one row represents one play. Information on author(s) name, character name, play name, URL and ID is represented in separate columns.

See Also

[get_dracor](#)

Examples

```
wiki_id <- "Q131412"
get_character_plays(wiki_id)
```

get_dracor_meta	<i>Retrieve information on available corpora</i>
-----------------	--

Description

get_dracor_meta() returns metadata on available corpora as a dracor_meta object that inherits data frame (and can be used as such). Use summary() and plot() on this object to get an even more condensed summary.

Usage

```
get_dracor_meta()

## S3 method for class 'dracor_meta'
summary(object, ...)

## S3 method for class 'dracor_meta'
plot(x, ...)
```

Arguments

object	An object of class "dracor_meta".
...	Other arguments to be passed.
x	A dracor_meta object.

Value

dracor_meta object that inherits data frame (and can be used as such).

Functions

- summary(dracor_meta): Meaningful summary for dracor_meta object.
- plot(dracor_meta): Plots how many plays are available for each corpus.

See Also

[get_dracor](#)

Examples

```
corpora_meta <- get_dracor_meta()
corpora_meta
summary(corpora_meta)
plot(corpora_meta)
```

get_net_cooccur_edges *Retrieve co-occurrence edges list for a play as a data frame*

Description

get_net_cooccur_edges() requests edges list for a play network, given corpus and play names. Each row represents co-occurrences of two characters in a play — number of scenes where two characters appeared together. This edges list can be used to construct a network for a play.

Usage

```
get_net_cooccur_edges(play = NULL, corpus = NULL, ...)
```

```
get_net_relations_edges(play = NULL, corpus = NULL, ...)
```

Arguments

play	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
corpus	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
...	Additional arguments passed to dracor_api .

Value

data frame with edges (each row = one edge of a network).

Functions

- [get_net_relations_edges\(\)](#): Retrieves kinship and other relationship data, following the encoding scheme proposed in (Wiedmer et al. 2020).

References

Wiedmer N, Pagel J, Reiter N (2020). "Romeo, Freund des Mercutio: Semi-Automatische Extraktion von Beziehungen zwischen dramatischen Figuren." In *Konferenz Digital Humanities im deutschsprachigen Raum*. doi:10.5281/zenodo.4621778.

See Also

[get_net_cooccur_igraph](#) [get_net_cooccur_gexf](#) [get_net_cooccur_graphml](#) [get_net_cooccur_metrics](#)
[get_net_relations_igraph](#)

Examples

```
get_net_cooccur_edges(play = "lessing-emilia-galotti", corpus = "ger")
```

get_net_cooccur_gexf *Retrieve co-occurrence network for a play in 'GEXF'*

Description

get_net_cooccur_gexf() requests a play co-occurrence network in 'GEXF' (Graph Exchange XML Format), given play and corpus names. 'GEXF' is a format used in 'Gephi' — an open source software for network analysis and visualization.

Usage

```
get_net_cooccur_gexf(play = NULL, corpus = NULL, parse = TRUE, ...)
```

```
get_net_relations_gexf(play = NULL, corpus = NULL, ...)
```

Arguments

play	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
corpus	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
parse	Logical, if TRUE the result is parsed by <code>xml2::read_xml()</code> , otherwise character value is returned. Default value is TRUE.
...	Additional arguments passed to dracor_api .

Value

'GEXF' data.

Functions

- `get_net_relations_gexf()`: Retrieves kinship and other relationship data, following the encoding scheme proposed in (Wiedmer et al. 2020).

References

Wiedmer N, Pagel J, Reiter N (2020). "Romeo, Freund des Mercutio: Semi-Automatische Extraktion von Beziehungen zwischen dramatischen Figuren." In *Konferenz Digital Humanities im deutschsprachigen Raum*. doi:10.5281/zenodo.4621778.

See Also

[get_net_cooccur_igraph](#) [get_net_cooccur_metrics](#) [get_net_cooccur_graphml](#) [get_net_cooccur_edges](#)
[get_net_relations_igraph](#)

Examples

```

get_net_cooccur_gexf(play = "lessing-emilia-galotti", corpus = "ger")
# If you want 'GEXF' without parsing by xml2::read_xml():
get_net_cooccur_gexf(
  play = "lessing-emilia-galotti",
  corpus = "ger",
  parse = FALSE
)

```

```
get_net_cooccur_graphml
```

Retrieve co-occurrence network for a play in 'GraphML'

Description

`get_net_cooccur_graphml()` requests a play co-occurrence network in 'GraphML', given play and corpus names. 'GraphML' is a common format for graphs based on XML.

Usage

```
get_net_cooccur_graphml(play = NULL, corpus = NULL, parse = TRUE, ...)
```

```
get_net_relations_graphml(play = NULL, corpus = NULL, ...)
```

Arguments

<code>play</code>	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
<code>corpus</code>	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
<code>parse</code>	Logical, if TRUE the result is parsed by <code>xml2::read_xml()</code> , otherwise character value is returned. Default value is TRUE.
<code>...</code>	Additional arguments passed to dracor_api .

Value

'GraphML' data.

Functions

- `get_net_relations_graphml()`: Retrieves kinship and other relationship data, following the encoding scheme proposed in (Wiedmer et al. 2020).

References

Wiedmer N, Pagel J, Reiter N (2020). "Romeo, Freund des Mercutio: Semi-Automatische Extraktion von Beziehungen zwischen dramatischen Figuren." In *Konferenz Digital Humanities im deutschsprachigen Raum*. doi:10.5281/zenodo.4621778.

See Also

[get_net_cooccur_igraph](#) [get_net_cooccur_gexf](#) [get_net_cooccur_metrics](#) [get_net_cooccur_edges](#)
[get_net_relations_igraph](#)

Examples

```
get_net_cooccur_graphml(play = "lessing-emilia-galotti", corpus = "ger")
# If you want 'GEXF' without parsing by xml2::read_xml():
get_net_cooccur_graphml(play = "lessing-emilia-galotti", corpus = "ger", parse = FALSE)
```

```
get_net_cooccur_igraph
```

Retrieve an igraph co-occurrence network for a play

Description

`get_net_cooccur_igraph()` returns a play network, given play and corpus names. Play network is constructed based on characters' co-occurrence matrix. Each node (vertex) is a character (circle) or a group of characters (square), edges width is proportional to the number of common play segments where two characters occur together.

Usage

```
get_net_cooccur_igraph(play = NULL, corpus = NULL, as_igraph = FALSE)

## S3 method for class 'cooccur_igraph'
plot(
  x,
  layout = igraph::layout_with_kk,
  vertex.label = label_cooccur_igraph(x),
  gender_colors = c(MALE = "#0073C2", FEMALE = "#EFC000", UNKNOWN = "#99979D"),
  vertex_size_metric = c("numOfWords", "numOfScenes", "numOfSpeechActs", "degree",
    "weightedDegree", "closeness", "betweenness", "eigenvector"),
  vertex_size_scale = c(5, 20),
  edge_size_scale = c(0.5, 4),
  vertex_label_adjust = TRUE,
  vertex.label.color = "#03070f",
  vertex.label.family = "sans",
  vertex.label.font = 2L,
```

```

    vertex.frame.color = "white",
    ...
)

## S3 method for class 'cooccur_igraph'
summary(object, ...)
```

Arguments

play	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
corpus	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
as_igraph	Logical, if TRUE, returns simple igraph object instead of cooccur_igraph. FALSE by default.
x	A cooccur_igraph object to plot.
layout	Function, an algorithm used for the graph layout. See igraph.plotting .
vertex.label	Character vector of character names. By default, function label_cooccur_igraph is used to avoid overplotting on large graphs.
gender_colors	Named vector with 3 values with colors for MALE, FEMALE and UNKNOWN respectively. Set NULL to use the default igraph colors. If you set parameter vertex.color (see igraph.plotting), gender_colors will be ignored.
vertex_size_metric	Character value, one of "numOfWords", "numOfScenes", "numOfSpeechActs", "degree", "weightedDegree", "closeness", "betweenness", "eigenvector" that will be used as a metric for vertex size. Alternatively, you can specify vertex size by yourself using parameter vertex.size (see igraph.plotting), in this case parameter vertex_size_metric is ignored.
vertex_size_scale	Numeric vector with two values. The first number is for mean size of node(vertex), the second one is for node size variance. If you specify vertex size by yourself using parameter vertex.size (see igraph.plotting), vertex_size_scale is ignored.
edge_size_scale	Numeric vector with two values. The first number defines average size of edges, the second number defines edges size variance. If you specify edges size by yourself using parameter edge.width (see igraph.plotting), edge_size_scale is ignored.
vertex_label_adjust	Logical. If TRUE, labels positions are moved to the top of the respective nodes. If FALSE, labels are placed in the nodes centers. TRUE by default. If you set parameter vertex.label.dist (see igraph.plotting) by yourself, vertex_label_adjust is ignored.
vertex.label.color	See igraph.plotting .

vertex.label.family
 See [igraph.plotting](#).
 vertex.label.font
 See [igraph.plotting](#).
 vertex.frame.color
 See [igraph.plotting](#).
 ...
 Other arguments to be passed to [plot.igraph](#)
 object
 An object of class `cooccur_igraph`.

Value

`cooccur_igraph` — an object that inherits `igraph` and can be treated as such.

Functions

- `plot(cooccur_igraph)`: Plot `cooccur_igraph` using `plot.igraph` with slightly modified defaults.
- `summary(cooccur_igraph)`: Meaningful summary for "cooccur_igraph" object: network properties, gender distribution

See Also

[get_net_relations_igraph_label_cooccur_igraph](#)

Examples

```
emilia_igraph <- get_net_cooccur_igraph(
  play = "lessing-emilia-galotti",
  corpus = "ger"
)
igraph::diameter(emilia_igraph)
plot(emilia_igraph)
summary(emilia_igraph)
```

```
get_net_cooccur_metrics
```

Retrieve co-occurrence network metrics for a play

Description

`get_net_cooccur_metrics()` requests network metrics for a specific play, given play and corpus names. Play network is constructed based on characters' co-occurrence matrix.

Usage

```
get_net_cooccur_metrics(play = NULL, corpus = NULL, ...)
```

Arguments

play	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
corpus	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
...	Additional arguments passed to dracor_api .

Value

List with network metrics for a specific play.

See Also

[get_net_cooccur_igraph](#) [get_net_cooccur_gexf](#) [get_net_cooccur_graphml](#) [get_net_cooccur_edges](#)
[get_net_relations_igraph](#)

Examples

```
get_net_cooccur_metrics(play = "lessing-emilia-galotti", corpus = "ger")
```

```
get_net_relations_igraph
```

Retrieve an igraph relations network for a play

Description

`get_net_relations_igraph()` a play network, given play and corpus names . The network represent kinship and other relationships data, following the encoding scheme proposed in (Wiedmer et al. 2020).

Usage

```
get_net_relations_igraph(play = play, corpus = corpus, as_igraph = FALSE)
```

```
## S3 method for class 'relations_igraph'
summary(object, ...)
```

```
## S3 method for class 'relations_igraph'
plot(
  x,
  layout = igraph::layout_nicely,
  gender_colors = c(MALE = "#0073C2", FEMALE = "#EFC000", UNKNOWN = "#99979D"),
  show_others = c("vertex", "vertex_label", "none"),
  vertex_size = c(13, 4),
  vertex_label_size = c(0.8, 0.5),
```

```

vertex_label_adjust = TRUE,
vertex.label.color = "#03070f",
vertex.label.family = "sans",
vertex.label.font = 2L,
vertex.frame.color = "white",
edge.arrow.size = 0.25,
edge.arrow.width = 1.5,
edge.curved = 0.15,
edge.label.family = "sans",
edge.label.font = 4L,
edge.label.cex = 0.75,
...
)

```

Arguments

play	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
corpus	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
as_igraph	Logical, if TRUE, returns simple igraph object instead of cooccur_igraph. FALSE by default.
object	An object of class relations_igraph.
...	Other arguments to be passed to plot.igraph
x	A relations_igraph object to plot.
layout	Function, an algorithm used for graph layout. See layout_ .
gender_colors	Named vector with 3 values with colors for MALE, FEMALE and UNKNOWN respectively. Set NULL to use default igraph colors. If you set parameter vertex.color (see igraph.plotting), gender_colors will be ignored.
show_others	Character value. What to do with vertices without relations? <ul style="list-style-type: none"> • "vertex": plot only vertices without labels. • "vertex_label": plot both vertices and labels. • "none": do not plot vertices without relations. <p>The default is "vertex".</p>
vertex_size	Numeric vector with two values. The first number is for nodes with relations, the second number is for all other nodes.
vertex_label_size	Numeric vector with two values. The first number defines label sizes for nodes with relations, the second number for nodes without relations.
vertex_label_adjust	Logical value. If TRUE, labels positions are moved to the top of the respective nodes. If FALSE, labels are placed in the nodes centers. TRUE by default. If you set parameter vertex.label.dist(see igraph.plotting) by yourself, vertex_label_adjust is ignored.

vertex.label.color See [igraph.plotting](#).
 vertex.label.family See [igraph.plotting](#).
 vertex.label.font See [igraph.plotting](#).
 vertex.frame.color See [igraph.plotting](#).
 edge.arrow.size See [igraph.plotting](#).
 edge.arrow.width See [igraph.plotting](#).
 edge.curved See [igraph.plotting](#).
 edge.label.family See [igraph.plotting](#).
 edge.label.font See [igraph.plotting](#).
 edge.label.cex See [igraph.plotting](#).

Value

relations_igraph — an object that inherits igraph and can be treated as such.

Functions

- `summary(relations_igraph)`: Meaningful summary for "relations_igraph" object: relationships and their type.
- `plot(relations_igraph)`: Plot relations_igraph using `plot.igraph` with slightly modified defaults.

References

Wiedmer N, Pagel J, Reiter N (2020). "Romeo, Freund des Mercutio: Semi-Automatische Extraktion von Beziehungen zwischen dramatischen Figuren." In *Konferenz Digital Humanities im deutschsprachigen Raum*. doi:10.5281/zenodo.4621778.

See Also

[get_net_cooccur_igraph](#)

Examples

```
galotti_relations <- get_net_relations_igraph(
  play = "lessing-emilia-galotti",
  corpus = "ger"
)
plot(galotti_relations)
```

```
summary(galotti_relations)
```

get_play_characters *Retrieve data for characters in a play*

Description

get_play_characters() requests miscellaneous information for characters in a play, given play and corpus names: name, number and size of their lines, gender, some network metrics etc.

Usage

```
get_play_characters(play = NULL, corpus = NULL, ...)
```

Arguments

play	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
corpus	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
...	Additional arguments passed to dracor_api .

Value

Data frame, every row represents one character in the play.

See Also

[get_play_metadata](#)

Examples

```
get_play_characters(play = "lessing-emilia-galotti", corpus = "ger")
```

get_play_metadata	<i>Retrieve metadata for a play</i>
-------------------	-------------------------------------

Description

get_play_metadata() requests metadata for a specific play, given play and corpus names.

Usage

```
get_play_metadata(play = NULL, corpus = NULL, full_metadata = TRUE, ...)
```

Arguments

play	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
corpus	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
full_metadata	Logical: if TRUE (default value), then additional metadata are retrieved.
...	Additional arguments passed to dracor_api .

Value

List with the play metadata.

See Also

[get_net_cooccur_edges](#) [get_play_rdf](#) [get_play_characters](#)

Examples

```
get_play_metadata(  
  play = "lessing-emilia-galotti",  
  corpus = "ger",  
  full_metadata = FALSE  
)
```

get_play_rdf	<i>Retrieve an RDF for a play</i>
--------------	-----------------------------------

Description

get_play_rdf() requests an RDF (Resource Description Framework) data for a play, given play and corpus names. RDF for plays can be useful for extraction data for a play from https://www.wikidata.org/wiki/Wikidata:Main_Page.

Usage

```
get_play_rdf(play = NULL, corpus = NULL, parse = TRUE, ...)
```

Arguments

play	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
corpus	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
parse	Logical, if TRUE the result is parsed by <code>xml2::read_xml()</code> , otherwise character value is returned. Default value is TRUE.
...	Additional arguments passed to dracor_api .

Value

RDF data parsed by `xml2::read_xml()`.

See Also

[get_play_metadata](#) [get_play_characters](#)

Examples

```
get_play_rdf(play = "lessing-emilia-galotti", corpus = "ger")
# If you want RDF without parsing by xml2::read_xml():
get_play_rdf(play = "lessing-emilia-galotti", corpus = "ger", parse = FALSE)
```

get_text_chr_spoken *Retrieve lines and stage directions for a play*

Description

get_text_chr_spoken() request lines and stage directions for a play, given play and corpus names.

Usage

```
get_text_chr_spoken(
  play = NULL,
  corpus = NULL,
  gender = NULL,
  split_text = TRUE,
  ...
)
```

```
get_text_chr_spoken_bych(
  play = NULL,
  corpus = NULL,
  split_text = TRUE,
  as_data_frame = FALSE,
  ...
)
```

```
get_text_chr_stage(play = NULL, corpus = NULL, split_text = TRUE, ...)
```

```
get_text_chr_stage_with_sp(play = NULL, corpus = NULL, split_text = TRUE, ...)
```

Arguments

play	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
corpus	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
gender	Character, optional parameter to extract lines for characters of specified gender: "MALE", "FEMALE", "UNKNOWN".
split_text	If TRUE returns text as a character vector of lines. Otherwise, returns text as one character value. TRUE by default.
...	Additional arguments passed to dracor_api .
as_data_frame	If TRUE returns data frame with a row for every character and text in a column "text". Otherwise, a named list with character values is returned. FALSE by default.

Value

For `get_text_chr_spoken()`, `get_text_chr_stage()` and `get_text_chr_stage_with_sp()`: a character vector (if `split_text = TRUE`, the default value) or a single character value (if `split_text = FALSE`). For `get_text_chr_spoken_bych()`:

`split_text = TRUE` **and** `as_data_frame = FALSE` (**default**) a named list with character vectors for every character

`split_text = FALSE` **and** `as_data_frame = FALSE` a named character vector (one value = one character)

`split_text = TRUE` **and** `as_data_frame = TRUE` a data frame: every row represent a character, text of a play is stored in a "text" column, the "text" column is a list column with a character vector of lines

`split_text = FALSE` **and** `as_data_frame = TRUE` a data frame: every row represent a character, text of a play is stored in a "text" column, the "text" column is a simple character column

Functions

- `get_text_chr_spoken_bych()`: Retrieves lines grouped by characters in a play, given play and corpus names.
- `get_text_chr_stage()`: Retrieves all stage directions of a play, given play and corpus names.
- `get_text_chr_stage_with_sp()`: Retrieves all stage directions of a play including speakers (if applicable), given play and corpus names.

See Also

[get_text_tei](#) [get_text_df](#)

Examples

```
get_text_chr_spoken(play = "lessing-emilia-galotti", corpus = "ger")
get_text_chr_spoken(
  play = "lessing-emilia-galotti",
  corpus = "ger",
  gender = "FEMALE"
)
get_text_chr_spoken(
  play = "lessing-emilia-galotti",
  corpus = "ger",
  gender = "FEMALE",
  split_text = FALSE
)
get_text_chr_spoken_bych(
  play = "lessing-emilia-galotti",
  corpus = "ger"
)
get_text_chr_stage(
  play = "lessing-emilia-galotti",
  corpus = "ger"
```

```

)
get_text_chr_stage_with_sp(
  play = "lessing-emilia-galotti",
  corpus = "ger"
)

```

get_text_tei	Retrieve a text for a play in 'TEI'
--------------	-------------------------------------

Description

get_text_tei() requests a text for a play in 'TEI' format, given play and corpus names. 'TEI' is an XML vocabulary, which makes it easy to extract structural information (Fischer et al. 2019).

Usage

```
get_text_tei(play = NULL, corpus = NULL, ...)
```

Arguments

play	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
corpus	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).
...	Additional arguments passed to dracor_api .

Value

TEI data parsed by [xml2::read_xml\(\)](#).

References

Fischer F, Börner I, Göbel M, Hechtl A, Kittel C, Milling C, Trilcke P (2019). "Programmable corpora: Introducing DraCor, an infrastructure for the research on European drama." In *Digital Humanities 2019: "Complexities" (DH2019)*. doi:10.5281/zenodo.4284002.

See Also

[get_text_df](#) [get_text_chr_spoken](#) [tei_to_df](#)

Examples

```

get_text_tei(play = "lessing-emilia-galotti", corpus = "ger")
# If you want a text in TEI without parsing by xml2::read_xml():
get_text_tei(play = "lessing-emilia-galotti", corpus = "ger", parse = FALSE)

```

label_cooccur_igraph *Extract labels for plotting 'cooccur_igraph' object*

Description

label_cooccur_igraph() returns labels for plotting cooccur_igraph object. label_cooccur_igraph gives control of overplotting for labels (i.e. character names) by deleting extra labels if there are too many of them. Thus, it highlights the most significant characters of the selected play. This function can be used to set vertex.label parameter for [plot.cooccur_igraph](#).

Usage

```
label_cooccur_igraph(  
  graph,  
  max_graph_size = 30L,  
  top_nodes = 3L,  
  label_size_metric = c("betweenness", "numOfWords", "numOfScenes", "numOfSpeechActs",  
    "degree", "weightedDegree", "closeness", "eigenvector")  
)
```

Arguments

graph cooccur_igraph object to plot.

max_graph_size Integer, maximum network size for plotting all labels. If you don't want to delete any labels, set Inf.

top_nodes Integer, number of labels to be plotted. Characters with the highest number of words will be selected.

label_size_metric Character, a metric that is used to rank characters in a play.

Details

label_cooccur_igraph takes labels from a vertices data frame column "name", checks that network size is more than max_graph_size, if it is true, returns names for top top_nodes and NA for the rest.

Value

Character vector of character names.

See Also

[get_net_cooccur_igraph](#)

Examples

```
emilia_igraph <- get_net_cooccur_igraph(
  play = "lessing-emilia-galotti",
  corpus = "ger"
)
label_cooccur_igraph(emilia_igraph, max_graph_size = 10, top_nodes = 4)
```

summary.dracor

Retrieve metadata for all plays in selected corpora

Description

`get_dracor()` request data on all plays in selected (or all) corpora. `get_dracor()` returns dracor object that inherits data frame (and can be used as such) but specified [summary](#) method.

Usage

```
## S3 method for class 'dracor'
summary(object, ...)

get_dracor(corpus = "all", full_metadata = TRUE)
```

Arguments

object	An object of class dracor.
...	Other arguments to be passed to summary.default .
corpus	Character vector with names of the corpora (you can find all corpora names in name column within an object returned by get_dracor_meta) or "all" (default value). if "all", then all available corpora are downloaded.
full_metadata	Logical: if TRUE (default value), then additional metadata are retrieved.

Details

You need to provide a vector with valid names of the corpora, e.g. "rus", "ger" or "shake". Use function [get_dracor_meta](#) to extract names for all available corpora.

Value

dracor object that inherits data frame (and can be used as such).

Functions

- `summary(dracor)`: Meaningful summary for dracor_meta object.

See Also[get_dracor_meta](#)**Examples**

```
tat <- get_dracor("tat")
summary(tat)
get_dracor(c("ita", "span", "greek"))
get_dracor()
```

`tei_to_df`*Retrieve a text for a play as a data frame*

Description

The function `get_text_df()` returns you a data frame with text of the selected play. `tei_to_df()` allows to convert an existing 'TEI' object to a data frame.

Usage

```
tei_to_df(tei)

get_text_df(play, corpus)
```

Arguments

<code>tei</code>	A TEI object stored as an object of class <code>xml_document</code> . You can use this function if you have already downloaded TEI using get_text_tei .
<code>play</code>	Character, name of a play (you can find all play names in "playName" column within an object returned by get_dracor). Character vector (longer than 1) is not supported.
<code>corpus</code>	Character, name of the corpus (you can find all corpus names in name column within an object returned by get_dracor_meta).

Value

Text of a play as a data frame in **tidy text** format. Each row represent one token. The text tokenised by lines, notes and stage directions (`<p>`, `<l>`, `<stage>` or `<note>`). Column `text` contains text of the line, other columns contain metadata for the line.

Functions

- `get_text_df()`: Retrieves all stage directions of a play, given play and corpus names.

See Also

[get_play_metadata](#)

Examples

```
get_text_df(play = "lessing-emilia-galotti", corpus = "ger")
emilia_tei <- get_text_tei(play = "lessing-emilia-galotti", corpus = "ger")
tei_to_df(emilia_tei)
```

Index

`data.table::fread()`, 3
`dracor_api`, 2, 4, 7–9, 13, 16–19, 21
`dracor_api_info`, 3
`dracor_sparql`, 3, 4

`get_character_plays`, 5
`get_dracor`, 4–9, 11, 13, 14, 16–19, 21, 24
`get_dracor` (`summary.dracor`), 23
`get_dracor_api_url` (`dracor_api_info`), 3
`get_dracor_meta`, 6, 7–9, 11, 13, 14, 16–19, 21, 23, 24
`get_net_cooccur_edges`, 7, 8, 10, 13, 17
`get_net_cooccur_gexf`, 7, 8, 10, 13
`get_net_cooccur_graphml`, 7, 8, 9, 13
`get_net_cooccur_igraph`, 7, 8, 10, 10, 13, 15, 22
`get_net_cooccur_metrics`, 7, 8, 10, 12
`get_net_relations_edges`
 (`get_net_cooccur_edges`), 7
`get_net_relations_gexf`
 (`get_net_cooccur_gexf`), 8
`get_net_relations_graphml`
 (`get_net_cooccur_graphml`), 9
`get_net_relations_igraph`, 7, 8, 10, 12, 13, 13
`get_play_characters`, 16, 17, 18
`get_play_metadata`, 16, 17, 18, 25
`get_play_rdf`, 17, 18
`get_text_chr_spoken`, 19, 21
`get_text_chr_spoken_bych`
 (`get_text_chr_spoken`), 19
`get_text_chr_stage`
 (`get_text_chr_spoken`), 19
`get_text_chr_stage_with_sp`
 (`get_text_chr_spoken`), 19
`get_text_df`, 20, 21
`get_text_df` (`tei_to_df`), 24
`get_text_tei`, 20, 21, 24

`igraph.plotting`, 11, 12, 14, 15

`jsonlite::fromJSON()`, 3

`label_cooccur_igraph`, 11, 12, 22
`layout_`, 14

`plot.cooccur_igraph`, 22
`plot.cooccur_igraph`
 (`get_net_cooccur_igraph`), 10
`plot.dracor_meta` (`get_dracor_meta`), 6
`plot.igraph`, 12, 14
`plot.relations_igraph`
 (`get_net_relations_igraph`), 13

`set_dracor_api_url` (`dracor_api_info`), 3
`summary`, 23
`summary.cooccur_igraph`
 (`get_net_cooccur_igraph`), 10
`summary.default`, 23
`summary.dracor`, 23
`summary.dracor_meta` (`get_dracor_meta`), 6
`summary.relations_igraph`
 (`get_net_relations_igraph`), 13

`tei_to_df`, 21, 24

`xml2::read_xml()`, 3, 4, 8, 9, 18, 21