Package: sehrnett (via r-universe)

August 25, 2024

Title A Very Nice Interface to 'WordNet'

Version 0.1.0

Description A very nice interface to Princeton's 'WordNet' without
'rJava' dependency. 'WordNet' data is not included. Princeton
University makes 'WordNet' available to research and commercial
users free of charge provided the terms of their license
(<https://wordnet.princeton.edu/license-and-commercial-use>)
are followed, and proper reference is made to the project using
an appropriate citation
(<https://wordnet.princeton.edu/citing-wordnet>).

License GPL (>= 3)

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

URL <https://github.com/chainsawriot/sehrnett>

BugReports <https://github.com/chainsawriot/sehrnett/issues>

Suggests covr, testthat (>= 3.0.0)

Config/testthat/edition 3

Imports DBI, RSQLite, magrittr, tibble, purrr, utils, dplyr

Config/testthat/parallel true

Repository https://chainsawriot.r-universe.dev

RemoteUrl https://github.com/chainsawriot/sehrnett

RemoteRef HEAD

RemoteSha 6c857c5ae542e05df8fdf2eadaa7fc81c2be82f5

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download_wordnet   *Download And Delete WordNet SQL Database*

Description

To download the WordNet 3.1 data as a sqlite database. It runs only in an interactive R session. The size of the database is around 500MB. Please make sure you agree with the WordNet License.

Usage

```
download_wordnet(debug = FALSE)

delete_wordnet()
```

Arguments

debug   a flag for debugging. You should keep it FALSE. (Try at your own risk!)

Value

TRUE if the database is found. FALSE if there is no database and it is not running in an interactive R session.

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get_lemmas   *Search For Lemmas in WordNet*

Description

Search for lemma(s) in WordNet.

Usage

```
get_lemmas(
  x = c("very", "nice"),
  pos = c("n", "v", "a", "s", "r"),
  sensenum,
  lemmatize = TRUE
)
```

Arguments

x	character, one or more lemmas to be searched; it can also be a data.frame result from another `get_` functions, but it doesn't make a lot of sense. Alternatively, you can also use the so-called dot notation ("lemma.pos.sensenum") to quickly search for an exact word sense. For example, "king.n.10" is the lemma of "king", which is a noun with the 10th word sense, i.e. king, the chess piece. When using this dot notation, the `lemmatize` parameter is set to `FALSE`.
pos	character, a vector of part-of-speech labels: "n": Noun, "v": Verb, "a": Adjective, "s": Adjective satellite, "r": Adverb
sensenum	integer, if supplied, only those sensenum are selected.
lemmatize	logical, whether to lemmatize the `x` before making query. This is ignored if 1) pos has more than one element, 2) x contains collocations or hyphenation.

Value

a data frame containing search result

Examples

```
if (interactive()) {
get_lemmas("king.n.10")
}
```

---

get_outdegrees   *Get outdegrees*

Description

Search for outdegrees based on linkid. Various sugars are also provided with different default linkids.

Usage

```
get_outdegrees(x, linkid = 1)

get_hypernyms(x)

get_hyponyms(x)

get_holonyms(x)

get_meronyms(x)

get_causes(x)
```

```
get_antonyms(x)

get_derivatives(x)

get_pertainyms(x)

list_linktypes()
```

Arguments

x	character, one or more Synset IDs to be searched, or a data.frame result from another `get_` function
linkid	a vector of numeric linkids. Use [list_linktypes()](#) to obtain a full list.

Value

a data frame containing search result

Examples

```
if (interactive()) {
get_lemmas("dog", pos = "n", sensenum = 1) %>% get_outdegrees(linkid = 1)
get_lemmas("dog", pos = "n", sensenum = 1) %>% get_hyponyms()
get_lemmas("nice", pos = "a", sensenum = 1) %>% get_antonyms()
}
```

---

get_synsetids   *Search for Synset IDs in WordNet*

Description

Search for Synset ID(s) in WordNet

Usage

```
get_synsetids(x = c("301590922", "108957024"))

get_synonyms(x)
```

Arguments

x	character, one or more Synset IDs to be searched, or a data.frame result from another `get_` function

Value

a data frame containing search result

Examples

```
if (interactive()) {
  get_synsetids("106618544")
}
```

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