

Package ‘rgnparser’

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Title Parse Scientific Names

Description Parse scientific names using 'gnparser'
(<<https://github.com/gnames/gnparser>>), written in Go. 'gnparser'
parses scientific names into their component parts; it utilizes
a Parsing Expression Grammar specifically for scientific names.

Version 0.3.0

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URL <https://docs.ropensci.org/rgnparser/>,
<https://github.com/ropensci/rgnparser>

BugReports <https://github.com/ropensci/rgnparser/issues>

Encoding UTF-8

Language en-US

SystemRequirements gnparser (<<https://github.com/gnames/gnparser>>)

Imports sys, tibble, jsonlite, readr, lifecycle

Suggests testthat

RoxygenNote 7.2.3

NeedsCompilation no

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rgnparser-package *rgnparser*

Description

Parse scientific names using gnparser

gn_debug *gn_debug*

Description

DEFUNCT

Usage

`gn_debug(...)`

Arguments

`...` ignored

gn_parse	<i>gn_parse</i>
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Description

extract names using gnparser

Usage

```
gn_parse(
  x,
  threads = 1,
  batch_size = NULL,
  ignore_tags = FALSE,
  cultivar = FALSE,
  capitalize = FALSE,
  diaereses = FALSE,
  details = FALSE
)
```

Arguments

x	(character) vector of scientific names. required
threads	(integer/numeric) number of threads to run for parallel processing. Setting to NULL will use all threads available. default: 1
batch_size	(integer/numeric) maximum number of names in a batch send for processing. default: NULL
ignore_tags	(logical) ignore HTML entities and tags when parsing. default: FALSE
cultivar	(logical) adds support for botanical cultivars like <i>Sarracenia flava</i> 'Maxima' and graft-chimaeras like + <i>Crataegomespilus</i> . default: FALSE
capitalize	(logical) capitalizes the first letter of name-strings. default: FALSE
diaereses	(logical) preserves diaereses within names, e.g. <i>Leptochloöpsis virgata</i> . The stemmed canonical name will be generated without diaereses. default: FALSE
details	(logical) Return more details for a parsed name

Value

a list

Examples

```
trys <- function(x) try(x, silent=TRUE)
if (interactive()) {
  x <- c("Quadrella steyermarkii (Standl.) Iltis & Cornejo",
        "Parus major Linnaeus, 1788", "Helianthus annuus var. texanus")
```

```

trys(gn_parse(x[1]))
trys(gn_parse(x[2]))
trys(gn_parse(x[3]))
trys(gn_parse(x))
# details
w <- trys(gn_parse(x, details = TRUE))
w[[1]]$details # details for one name
lapply(w, "[[", "details") # details for all names
z <- trys(gn_parse(x, details = FALSE)) # compared to regular
z
}

```

gn_parse_tidy *gn_parse_tidy*

Description

extract names using gnparser into a tidy tibble

Usage

```

gn_parse_tidy(
  x,
  threads = 1,
  batch_size = NULL,
  cultivar = FALSE,
  capitalize = FALSE,
  diaereses = FALSE,
  ignore_tags = FALSE
)

```

Arguments

<code>x</code>	(character) vector of scientific names. required
<code>threads</code>	(integer/numeric) number of threads to run for parallel processing. Setting to <code>NULL</code> will use all threads available. default: 1
<code>batch_size</code>	(integer/numeric) maximum number of names in a batch send for processing. default: <code>NULL</code>
<code>cultivar</code>	(logical) adds support for botanical cultivars like <code>Sarracenia flava 'Maxima'</code> and graft-chimaeras like + <code>Crataegomespilus</code> . default: FALSE
<code>capitalize</code>	(logical) capitalizes the first letter of name-strings. default: FALSE
<code>diaereses</code>	(logical) preserves diaereses within names, e.g. <code>Leptochloöpsis virgata</code> . The stemmed canonical name will be generated without diaereses. default: FALSE
<code>ignore_tags</code>	(logical) ignore HTML entities and tags when parsing. default: FALSE

Details

This function focuses on a data.frame result that's easy to munge downstream - note that this function does not do additional details as does [gn_parse\(\)](#).

Value

a data.frame

Examples

```
trys <- function(x) try(x, silent=TRUE)
if (interactive()) {
  x <- c("Quadrella steyermarkii (Standl.) Iltis & Cornejo",
        "Parus major Linnaeus, 1788", "Helianthus annuus var. texanus")
  trys(gn_parse_tidy(x))
}
```

*gn_version**gn_version*

Description

get gnparser version information

Usage

```
gn_version()
```

Value

named list, with `version` and `build`

Examples

```
trys <- function(x) try(x, silent=TRUE)
if (interactive()) {
  trys(gn_version())
}
```

`install_gnparser` *Install gnparser*

Description

[Deprecated]

Reason for deprecating:

The function used to download the appropriate `gnparser` executable for your platform and try to copy it to a system directory so `rgnparser` can run the `gnparser` command. This function was deprecated to stay in compliance with CRAN policies ("Packages should not write in the user's home filespace, nor anywhere else on the file system apart from the R session's temporary directory")

Solution:

Please install `gnparser` by hand. For Linux and Mac users, installing with your usual package manager such as homebrew is the easiest, see `gnparser` documentation for more details: <https://github.com/gnames/gnparser#installation>

Usage

```
install_gnparser(version, force)
```

Arguments

<code>version</code>	The <code>gnparser</code> version number, e.g., <code>1.0.0</code> ; the default <code>latest</code> means the latest version (fetched from GitLab releases). Alternatively, this argument can take a file path of the zip archive or tarball of <code>gnparser</code> that has already been downloaded from GitLab, in which case it will not be downloaded again. The minimum version is <code>v1.0.0</code> because <code>gnparser</code> v1 introduced breaking changes - and we don't support older versions of <code>gnparser</code> here.
<code>force</code>	Whether to install <code>gnparser</code> even if it has already been installed. This may be useful when upgrading <code>gnparser</code> .

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