

Package ‘nomine’

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Type Package

Title Classify Names by Gender, U.S. Ethnicity, and Leaf Nationality

Version 1.0.2

Description Functions to use the 'NamePrism' API <<https://www.name-prism.com/api>> or 'NameSor' API v2 <<https://namsor.app/>> for classifying names based on gender, 6 U.S. ethnicities, or 39 leaf nationalities. Updated to work with current API endpoints.

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Encoding UTF-8

Imports httr, RCurl, jsonlite, utils

RoxygenNote 7.3.3

Suggests knitr, rmarkdown

URL <https://github.com/lobsterbush/nomine>

BugReports <https://github.com/lobsterbush/nomine/issues>

NeedsCompilation no

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Repository CRAN

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get_ethnicities	<i>Classifies names based on 6 U.S. ethnicities</i>
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Description

Returns an object that classifies any inputted name(s) according to 6 different U.S. ethnicities.

Usage

```
get_ethnicities(x, t = NULL, warnings = FALSE)
```

Arguments

x	A vector of names, in the form "First_name Last_name". If there are multiple segments separated by white spaces, only the first and the last segments are taken into account.
t	A string with the API access token. The default value is NULL, although you must set your own token. A Name-Prism API token can be obtained for research purposes to overcome the limit of anonymous API use. Please visit https://www.name-prism.com/api for more details.
warnings	Logical. If TRUE, then a warning message will be displayed when a name cannot be analyzed. The default value is FALSE.

Value

A data frame of dimensions $\text{length}(x) \times 9$, with the probability of belonging to each of the 6 different U.S. ethnicities. Errors (e.g. connection is interrupted, invalid tokens) are handled as NA.

Author(s)

Charles Crabtree <ccrabtr@umich.edu> and Christian Chacua <christian-mauricio.chacua-delgado@u-bordeaux.fr>

Examples

```
# Prepare input vector of names
x <- c("Charles Crabtree", "Volha Chykina", "Christian Chacua",
      "Christian Mauricio Chacua")

# Expected output columns
expected_cols <- c("input", "encoded_name", "url",
                  "2PRACE", "Hispanic", "API",
                  "Black", "AIAN", "White")
print(expected_cols)

## Not run:
# Using the API token (you should get your own token)
y <- get_ethnicities(x, t = "YOUR_NAMEPRISM_TOKEN", warnings = FALSE)
y
```

```
# "Christian Chacua" and "Christian Mauricio Chacua" have the same
# probabilities as "Mauricio" is not taken into account.

## End(Not run)
```

get_gender *Classifies names based on gender*

Description

Returns an object that classifies inputted names according to gender.

Usage

```
get_gender(given, family, api_key)
```

Arguments

given	A vector of given names (i.e. first names).
family	A vector of family names (i.e. surnames or last names).
api_key	A NameSor API Key. This is typically a long string of mixed-case letters and numbers. Get yours at https://namsor.app/

Value

An object that classifies inputted names according to gender.

Author(s)

Charles Crabtree <ccrabtr@umich.edu>

Examples

```
# Prepare input vectors
first_name <- c("Volha", "Charles", "Donald")
last_name <- c("Chykina", "Crabtree", "Duck")

# Expected output columns
expected_cols <- c("id", "first_name", "last_name", "api_url", "scale", "gender")
print(expected_cols)

## Not run:
# Note: the vectors of first and last names should be the same length.
key <- "YOUR_NAMSOR_API_KEY"
y <- get_gender(first_name, last_name, key)
y

## End(Not run)
```

get_nationalities *Classifies names based on 39 leaf nationalities*

Description

Returns an object that classifies inputted names according to 39 different leaf nationalities.

Usage

```
get_nationalities(x, t = NULL, warnings = FALSE)
```

Arguments

x	A vector of names, in the form "First_name Last_name". If there are multiple segments separated by white spaces, only the first and the last segments are taken into account.
t	A string with the API access token. The default value is NULL, although you must set your own token. A Name-Prism API token can be obtained for research purposes to overcome the limit of anonymous API use. Please visit https://www.name-prism.com/api for more details.
warnings	Logical. If TRUE, then a warning message will be displayed when a name cannot be analyzed. The default value is FALSE.

Value

A data frame of dimensions $\text{length}(x) \times 42$, with the probability of belonging to each of the 39 different leaf CEL groups of the Name-Prism taxonomy (see <https://www.name-prism.com/about>). Errors (e.g. connection is interrupted, invalid tokens) are handled as NA.

Author(s)

Charles Crabtree <crcrabtr@umich.edu> and Christian Chacua <christian-mauricio.chacua-delgado@u-bordeaux.fr>

Examples

```
# Prepare input vector of names
x <- c("Charles Crabtree", "Volha Chykina", "Christian Chacua",
      "Christian Mauricio Chacua")

# Expected output columns (3 metadata + 39 leaf nationalities)
n_output_cols <- 42L
print(n_output_cols)

## Not run:
# Using the API token (you should get your own token)
y <- get_nationalities(x, t = "YOUR_NAMEPRISM_TOKEN", warnings = FALSE)
y
# "Christian Chacua" and "Christian Mauricio Chacua" have the same
```

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```
# probabilities as "Mauricio" is not taken into account.
```

```
## End(Not run)
```

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