

Package ‘randomNames’

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Title Random name generating function and data set

Depends R (>= 2.10.0)

Imports data.table (>= 1.8.0)

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Description Function to generate random gender and ethnicity correct first and/or last names. Names are chosen proportionally based upon their probability of appearing in a large scale data base of real names.

LazyLoad Yes

LazyData Yes

ByteCompile TRUE

License GPL-3

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NeedsCompilation no

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randomNames-package *Functions to create random gender and ethnicity correct first and/or last names where names are proportionally sampled based upon their frequency in a large scale database.*

Description

randomNames contains one function, randomNames that quickly calculates any number of gender and ethnic specific random first and/or last names.

Details

Package: randomNames
Type: Package
Version: 0.0-6
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License: GPL-3
LazyLoad: yes

Author(s)

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randomNames *Random Names Function*

Description

Function to generate random gender and ethnicity correct first and/or last names. Names are chosen proportionally based upon their probability of appearing in a large scale data base of real names. Function to generate random gender and ethnicity correct first and/or last names. The function probabilistically samples from the embedded randomNamesData dataset to provide a realistic list of first and/or last names.

Usage

```
randomNames(n,  
            gender,  
            ethnicity,  
            which.names="both",  
            name.order="last.first",  
            name.sep=", ")
```

Arguments

n	OPTIONAL. Integer indicating how many name to produce. Best to use when no gender or ethnicity data is provided and one simple wants n random first and/or last names.
gender	OPTIONAL. A vector indicating the genders for the names to be calculated. The maximum of n, the length of gender and the length of ethnicity is the number of random names returned. Note that the gender vector is only employed for deriving first names. If no gender vector is provided, the function randomly samples from both genders to produce a sample of names. See examples for various use cases.
ethnicity	OPTIONAL. A vector indicating the ethnicities for the names to be calculated. The maximum of n, the length of gender and the length of ethnicity is the number of random names returned. Note that the ethnicity vector is employed for both deriving first and last names. If no ethnicity vector is provided the function samples from all ethnicity to produce a sample of names. See examples for various use cases.
which.names	OPTIONAL. One of "both" (the default), "first", or "last" indicating what names to produce.
name.order	OPTIONAL. If which.names is "both", then names can be returned as either "last.first" (the default) or "first.last".
name.sep	OPTIONAL. If which.names is "both", then names are separated by the name.sep string provided. Defaults to comma-space separated.

Details

Typical use of the function is to submit a vector of genders and ethnicities to derived a gender and ethnicity representative vector of first and/or last names.

Value

Function returns a character vector containing first and/or last names.

Author(s)

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See Also

[randomNamesData](#)

Examples

```
randomNames() ## Returns a single name in "last, first" format

randomNames(5, which.names="first") ## Returns 5 first names

test.df <- data.frame(GENDER=round(runif(100)),
  ETHNICITY=round(runif(100,min=1, max=5)))
```

```
test.names <- randomNames(gender=test.df$GENDER,
ethnicity=test.df$ETHNICITY)

head(test.names)

ethnicities <- c("African American", "Hispanic", "Asian", "White", "Native American")
genders <- c("Female", "Male")

test.df <- data.frame(GENDER=sample(genders, 100, replace=TRUE),
ETHNICITY=sample(ethnicities, 100, replace=TRUE))

test.names <- randomNames(gender=test.df$GENDER,
ethnicity=test.df$ETHNICITY)

head(test.names)
```

randomNamesData	<i>First names (by gender and ethnicity) and last names (by ethnicity) for randomNames function</i>
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Description

A dataset compiled from a large scale data set of names providing first names by gender and ethnicity and last names by ethnicity. The dataset provides frequency probabilities from the original data set so that sampling provides a reasonable set of random names. The dataset is for use with the randomNames function to quickly generate random names that can be used, for example, to anonymize results.

Usage

```
data(randomNamesData)
```

Format

A list of first and last names by gender and ethnicity (first names) and ethnicity (last names) Gender is coded 0 for male and 1 for female, ethnicity is coded 1 for American Indian or Native Alaskan, 2 for Asian or Pacific Islander, 3 for Black (not Hispanic), 4 for Hispanic, and 5 for White (not Hispanic). For example, the array first_names_e1_g0 in randomNamesData provides first and associated frequency probabilities for male, American Indians or Native Alaskans.

Source

Large scale state data

See Also

[randomNames](#)

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