

Package ‘contactdata’

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Title Social Contact Matrices for 152 Countries

Version 0.2.0

Description Data package for the supplementary data in Prem et al. (2017) <doi:10.1371/journal.pcbi.1005697>. Provides easy access to contact data for 152 countries, for use in epidemiological, demographic or social sciences research.

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Depends R (>= 3.5)

Suggests countrycode, ggplot2, knitr, rmarkdown, spelling, testthat(>= 3.0.0), covr

URL <https://bisaloo.github.io/contactdata/>,
<https://github.com/bisaloo/contactdata>

BugReports <https://github.com/bisaloo/contactdata/issues>

Encoding UTF-8

Language en-GB

RoxygenNote 7.1.1

VignetteBuilder knitr

Config/testthat/edition 3

NeedsCompilation no

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age_df_countries	<i>Get a data.frame (in long format) of population by age for multiple countries</i>
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Description

Get a data.frame (in long format) of population by age for multiple countries

Usage

```
age_df_countries(countries)
```

Arguments

countries	A character string or a vector of character containing the names of the countries for which to return contact data
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Value

A data.frame (in long format) with 3 columns:

- country: the country name
- age: the age group
- pop: the number of people in this age group

References

<https://www.census.gov/programs-surveys/international-programs/about/idb.html>

Examples

```
age_df_countries(c("Austria", "Belgium"))
```

contact_df_countries *Get a data.frame (in long format) of contact data for multiple countries*

Description

Get a data.frame (in long format) of contact data for multiple countries

Usage

```
contact_df_countries(  
  countries,  
  location = c("all", "home", "school", "work", "other")  
)
```

Arguments

countries A character string or a vector of character containing the names of the countries for which to return contact data

location Character. One of "all", "home", "school", "work" or "other".

Value

A data.frame (in long format) with 4 columns:

- **country**: the country name
- **age_from**: the age group of individual
- **age_to**: the age group of contact
- **contact**: the intensity of contact

References

Kiesha Prem, Alex R. Cook, Mark Jit, Projecting social contact matrices in 152 countries using contact surveys and demographic data, PLoS Comp. Biol. (2017), doi: [10.1371/journal.pcbi.1005697](https://doi.org/10.1371/journal.pcbi.1005697)

Examples

```
contact_df_countries(c("Austria", "Belgium"), location = "all")
```

contact_matrix *Get contact data matrix for a specific country*

Description

Get contact data matrix for a specific country

Usage

```
contact_matrix(country, location = c("all", "home", "school", "work", "other"))
```

Arguments

country Character. The name of the country for which you want contact data.
location Character. One of "all", "home", "school", "work" or "other".

Value

A square (16 by 16) matrix containing the contact data between the different age classes for a given country.

References

Kiesha Prem, Alex R. Cook, Mark Jit, Projecting social contact matrices in 152 countries using contact surveys and demographic data, PLoS Comp. Biol. (2017), doi: [10.1371/journal.pcbi.1005697](https://doi.org/10.1371/journal.pcbi.1005697)

Examples

```
contact_matrix("France", location = "all")  
contact_matrix("Belgium", location = "school")
```

list_countries *Get the list of countries included in the dataset*

Description

Get the list of countries included in the dataset

Usage

```
list_countries()
```

Value

A character vector with the name of all countries included in the dataset

Note

This package uses the nomenclature from the **countrycode** package. If your names differ from the names used here, you should use **countrycode** as well to update them.

References

Kiesha Prem, Alex R. Cook, Mark Jit, Projecting social contact matrices in 152 countries using contact surveys and demographic data, PLoS Comp. Biol. (2017), doi: [10.1371/journal.pcbi.1005697](https://doi.org/10.1371/journal.pcbi.1005697)

Examples

```
list_countries()
```

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