Package ‘dogesr’

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Type Package

Title Work with the Doges/Dogaresse Dataset

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Description Work with data on Venetian doges and dogaresse and the noble families of the Republic of Venice, and use it for social network analysis, as used in Merelo (2022) <arXiv:2209.07334>.

License GPL-3

Encoding UTF-8

LazyData true

Depends R (>= 3.5.0)

Suggests testthat (>= 3.0.0), devtools, tidyr, networkD3, tibble

Config/testthat/edition 3

Imports Rdpack, dplyr, ggplot2, knitr, igraph, qpdf, rmarkdown

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RoxygenNote 7.2.1

NeedsCompilation no

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data.doges

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Load data into the environment

Description

Load data.doges into the environment

Usage

data("doges")

Value

A dataframe with a row for every doge and doge marriage, and the columns

- Doge Full name of the doge.
- Dogaressa Full name of the dogaressa (wife of the doge).
- Doge.raw Full entry copied from the Wikipedia, original format; includes years of rule.
- Dogaressa.raw Full entry copied from the Wikipedia, original format. Years of marriage are include when known; in other cases, they are simply the same as the years of ruling.
- Century, Start, End, Years Century where the office of the doge took place, years it started and ended, and how many years it lasted, parsed from Doge.raw.
- Family.doge, Family.dogaressa Normalized names of the patrician family the doge and dogaressa belonged. The second is null if it was not a patrician family (usual in the first centuries).
- Family.mother The family name of the mother of the doge, extracted generally from the Wikipedia

Examples

library(dogesr)
data("doges")
# A summary of the duration of the doges ruling
summary(data.doges$Years)

# The families that actually “made doge”
unique(data.doges$Family.doge)

# Families that had either doge or dogaressa
unique( c(data.doges$Family.doge,data.doges$Family.dogaressa))
**do"geb.families**

Load the list of families that became doges, and their numbers

**Description**

Load `do"geb.families` into the environment

**Usage**

`data("families")`

**Value**

A table with two columns:

- `Family.doge` Name of the family
- `n` Number of times this family "made" doge

**Examples**

```r
library(dogesr)
data("families")

# How many times did the Dandolos became doge?
do"geb.families[ do"geb.families$"Family.doge == "Dandolo",]$n

# How many families were doges?
length(do"geb.families$"Family.doge )
```

**do"geb.marriages.sn**

Data on doges' (and parents) matrimonial links

**Description**

An `igraph` object that includes doges' marriages, as well as their fathers', when available.

**Usage**

`data(doges.marriages)`

**Value**

An `igraph` objects, with vertices corresponding to dogi/dogaresse families, edges (links) corresponding to recorded marriages
Note
Data originally from the Wikipedia

Author(s)
J. J. Merelo

References
There are no references for Rd macro `\insertAllCites` on this help page.

See Also
`link{doges}

Examples
```r
library(dogesr)
library(igraph)
data(doges.marriages)

# All families linked to the Contarinis
incident(doges.marriages.sn,as.numeric(V(doges.marriages.sn)["Contarini"]))
```

---

doges.years

Sub-dataset with the list of doges, their family and when it happened.

Description
A dataset with doge data and the years their reign started and ended.

Usage
data("doges.years")

Details

Value
A dataframe with the columns Doge, Century, Start, End, Family, Years

Note
Data originally from the Wikipedia
family.types

Author(s)
J. J. Merelo

References
There are no references for Rd macro \insertAllCites on this help page.

See Also
link{doges}

Examples
library(dogesr)
data("doges.years")
summary(doges.years$Years)

---

family.types  Load data for Venetian family types into the environment

Description
Load family.types into the environment

Usage
data("families")

Value
A list with every noble family in the republic of Venice, and the columns

- Key: family name.
- Value: type of family: Estinte, Vecchie, Apostoliche, Evangeliche, Ducali, Nuove, Nuovissime, Soldo; this last name is not standard, and simply describe those who paid to be included into the Maggior Consiglio. This describes how they accessed nobility.

Main design decision here is that this can be used as external index for the type of family.

Examples
library(dogesr)
data("families")

# Which type was the Dandolo family?
family.types[['Dandolo']]

# Which families bought their way into the nobility
family.types == "Soldo"
# The families that actually “made doge”
unique(data.doges$Family.doge)

# Families that had either doge or dogaresse
unique( c(data.doges$Family.doge,data.doges$Family.dogaressa))

Description

Extract matrimonial links as an igraph object; it includes doges' marriages, as well as their fathers’, when available.

Usage

marriage.graph()

Details

The result of calling the function is an unfiltered igraph object, which you can use to plot the doges social network. Nodes are families, or "casate", and links indicate a wedding has taken place between the two families.

Value

A list that can be used as an igraph object, with noble family names as vertices and edges indicating links

Note

Data originally from the Wikipedia

Author(s)

J. J. Merelo

References

There are no references for Rd macro \insertAllCites on this help page.

See Also

link(doges)
### marriage.graph.slice

#### Examples

```r
library(dogesr)
library(igraph)
all.matrimonial.links <- marriage.graph()

# All families linked to the Contarinis
incident(all.matrimonial.links,as.numeric(V(all.matrimonial.links)["Contarini"]))
```

---

#### Description

Partial graph of doge marriages as an igraph object; it includes doges' marriages, as well as their fathers', when available, but only for the period comprised between the two doges indicated.

#### Usage

```r
marriage.graph.slice(..., from="Orso", to="Ludovico Manin")
```

#### Arguments

- `...`: Not really used
- `from`: A doge name, the first by default
- `to`: Another doge name, the last by default

#### Details

The result of calling the function is an igraph object, which you can use to plot the doges social network. Nodes are families, or "casate", and links indicate a wedding has taken place between the two families. The doges not comprised between the two slices, or the beginning or end and the indicated last or first, are not included.

#### Value

A list that can be used as an igraph object, with noble family names as vertices and edges indicating links.

#### Note

Data originally from the Wikipedia

#### Author(s)

J. J. Merelo
References

There are no references for Rd macro \insertAllCites on this help page.

See Also

link{doges} link{marriage.graph}

Examples

library(dogesr)
library(igraph)

# From that one to the end
from.sagredo <- marriage.graph.slice( from="Nicolo Sagredo")

# From the first one to Sagredo
to.sagredo <- marriage.graph.slice( to="Nicolo Sagredo")

# From the first to the last Contarini
from.sagredo <- marriage.graph.slice(
    from="Domenico I Contarini",
    to="Luigi Contarini"
)


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