

# Package ‘dogesr’

May 28, 2023

**Type** Package

**Title** Work with the Doges/Dogaresse Dataset

**Version** 0.3.0

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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, tidy, networkD3, tibble

**Config/testthat/edition** 3

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

**VignetteBuilder** knitr

**RdMacros** Rdpack

**RoxygenNote** 7.2.1

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2023-05-28 10:50:02 UTC

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`data.doges`*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))
```

---

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

---

**Description**

Load doge.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**

```
library(dogesr)
data("doge.families")

# How many times did the Dandolo become doge?
doge.families[ doge.families$Family.doge == "Dandolo",]$n

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

---

doges.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**

```
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 years they were ruling.*

---

**Description**

Create a sub-dataset with doge data and reigning years.

**Usage**

```
doges.years()
```

**Details**

Eliminates data from the original dataset doges Merelo-Guervós JJ (2022). “What is a good doge? Analyzing the patrician social network of the Republic of Venice.” University of Granada. doi: [10.48550/ARXIV.2209.07334](https://doi.org/10.48550/ARXIV.2209.07334), <https://arxiv.org/abs/2209.07334>. referring to dogaresse, and leaves just data for the doges, eliminating also the "raw" column.

**Value**

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

**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**

```
library(dogesr)
data.doges.years <- doges.years()
summary(data.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))
```

---

marriage.graph      *Data on doges' matrimonial links*

---

### 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}`

**Examples**

```
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"]))
```

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