

Package ‘onadata’

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Title Data Sets for Keith McNulty's Handbook of Graphs and Networks in People Analytics

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Description Data sets for network analysis related to People Analytics. Contains various data sets from the book 'Handbook of Graphs and Networks in People Analytics' by Keith McNulty (2021).

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caviar_end	<i>Caviar end data</i>
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Description

Network edgelist data as at the end of the Operation Caviar investigation into drug trafficking in Canada

Usage

caviar_end

Format

A dataframe with 72 rows and 3 variables:

from An individual under surveillance

to An individual under surveillance

weight The number of intercepted communications between the individuals

Source

Carlo Morselli

Examples

```
caviar_end
```

```
caviar_middle
```

Caviar middle data

Description

Network edgelist data as at the middle of the Operation Caviar investigation into drug trafficking in Canada

Usage

```
caviar_middle
```

Format

A dataframe with 50 rows and 3 variables:

from An individual under surveillance

to An individual under surveillance

weight The number of intercepted communications between the individuals

Source

[Carlo Morselli](#)

Examples

```
caviar_middle
```

```
caviar_start
```

Caviar start data

Description

Network edgelist data as at the start of the Operation Caviar investigation into drug trafficking in Canada

Usage

```
caviar_start
```

Format

A dataframe with 26 rows and 3 variables:

from An individual under surveillance

to An individual under surveillance

weight The number of intercepted communications between the individuals

Source

[Carlo Morselli](#)

Examples

caviar_start

chinook_customers	<i>Chinook customer data</i>
-------------------	------------------------------

Description

Extract of data on customers of a music sales company

Usage

chinook_customers

Format

A dataframe with 59 rows and 4 variables:

CustomerId Customer ID number

FirstName Customer First Name

LastName Customer Last Name

SupportRepId ID of Sales Rep assigned to customer

Source

[Chinook Database on Github](#)

Examples

chinook_customers

chinook_employees	<i>Chinook employee data</i>
-------------------	------------------------------

Description

Extract of data on employees of a music sales company

Usage

chinook_employees

Format

A dataframe with 8 rows and 4 variables:

EmployeeId Employee ID number

FirstName Employee First Name

LastName Employee Last Name

ReportsTo ID of Employee who they report to

Source

[Chinook Database on Github](#)

Examples

chinook_employees

chinook_invoices	<i>Chinook invoice data</i>
------------------	-----------------------------

Description

Extract of data on customer invoices from a music sales company

Usage

chinook_invoices

Format

A dataframe with 412 rows and 2 variables:

InvoiceId Invoice ID number

CustomerId CustomerID number

Source

[Chinook Database on Github](#)

Examples

```
chinook_invoices
```

```
chinook_items      Chinook item sales data
```

Description

Extract of data on items sold by a music sales company

Usage

```
chinook_items
```

Format

A dataframe with 2240 rows and 2 variables:

InvoiceId ID number of invoice containing the item

TrackId ID number of the item

Source

[Chinook Database on Github](#)

Examples

```
chinook_items
```

```
dolphins      Bottlenose dolphin social network
```

Description

Edgelist of network of frequent interaction between bottlenose dolphins in Doubtful Sound, New Zealand

Usage

```
dolphins
```

Format

A dataframe with 159 rows and 2 variables:

from Dolphin ID

to Dolphin ID

Source

[Lusseau et al, 2003](#)

Examples

dolphins

<code>email_edgelist</code>	<i>Email edgelist</i>
-----------------------------	-----------------------

Description

Edgelist of network of email communications at a large European research institution

Usage

`email_edgelist`

Format

A dataframe with 24929 rows and 2 variables:

from ID of sender

to ID of receiver

Source

[Leskovec et al, 2007](#)

Examples

`email_edgelist`

email_vertices	<i>Email vertices</i>
----------------	-----------------------

Description

Vertex data of network of email communications at a large European research institution

Usage

email_vertices

Format

A dataframe with 1005 rows and 2 variables:

id Vertex ID of individual

dept Department of individual

Source

[Leskovec et al, 2007](#)

Examples

email_vertices

eu_referendum	<i>EU referendum data</i>
---------------	---------------------------

Description

Data on voting in the UK EU membership referendum in 2016

Usage

eu_referendum

Format

A dataframe with 382 rows and 4 variables:

Region UK Region

Area_Code UK Area Code

Remain Number of votes to remain in the EU

Leave Number of votes to leave the EU

Source

[UK Electoral Commission](#)

Examples

eu_referendum

friends_tv_edgelist *Friends TV edgelist*

Description

Edgelist of network of characters of US TV Show Friends based on appearing in the same scene

Usage

friends_tv_edgelist

Format

A dataframe with 2976 rows and 3 variables:

from Friends character

to Friends character

weight Number of scenes with both characters

Source

[Keith McNulty](#)

Examples

friends_tv_edgelist

g14_edgelist	<i>G14 edgelist</i>
--------------	---------------------

Description

Edgelist of small network of 14 vertices

Usage

```
g14_edgelist
```

Format

A dataframe with 18 rows and 3 variables:

from Vertex ID

to Vertex ID

weight Edge weight

Examples

```
g14_edgelist
```

karate	<i>Zachary's Karate Club edgelist</i>
--------	---------------------------------------

Description

Edgelist of network of social interactions between members of a karate club

Usage

```
karate
```

Format

A dataframe with 78 rows and 2 variables:

from Member ID

to Member ID

Source

Zachary, 1977

Examples

```
karate
```

koenigsberg	<i>Bridges of Koenigsberg edgelist</i>
-------------	--

Description

Edgelist of network of places connected by bridges in the city of Koenigsberg

Usage

koenigsberg

Format

A dataframe with 7 rows and 2 variables:

from Place name

to Place name

Source

[Euler, 1736](#)

Examples

koenigsberg

lesmis	<i>Les Miserables character network</i>
--------	---

Description

Edgelist of network of characters in Victor Hugo's Les Miserables based on appearance in the same chapter

Usage

lesmis

Format

A dataframe with 254 rows and 3 variables:

from Character name

to Character name

weight Number of chapters both characters appear in

Source

Knuth, 1993

Examples

```
lesmis
```

```
londontube_edgelist
```

London Tube network edgelist

Description

Edgelist of network of London Tube/Underground stations

Usage

```
londontube_edgelist
```

Format

A dataframe with 406 rows and 4 variables:

from Station ID

to Station ID

line Name of line connecting stations

linecolor Official color of line connecting stations

Examples

```
londontube_edgelist
```

```
londontube_vertices
```

London Tube network vertices

Description

Vertices of network of London Tube/Underground stations

Usage

```
londontube_vertices
```

Format

A dataframe with 302 rows and 4 variables:

id Station ID

name Station name

latitude Station latitude

longitude Station longitude

Examples

londontube_vertices

madmen_edges

Mad Men network edgelist

Description

Edgelist of network of romantic relationships between characters of the TV show Mad Men

Usage

madmen_edges

Format

A dataframe with 39 rows and 3 variables:

Name1 Character name

Name2 Character name

Married Whether the relationship was part of a marriage

Examples

madmen_edges

madmen_vertices *Mad Men network vertices*

Description

Vertices of network of romantic relationships between characters of the TV show Mad Men

Usage

madmen_vertices

Format

A dataframe with 45 rows and 3 variables:

label Character name

Gender Character gender

Main Whether the character is a main character

Examples

madmen_vertices

netscience *Network Science collaboration network*

Description

Edgelist of network of academic collaboration between network scientists

Usage

netscience

Format

A dataframe with 2742 rows and 3 variables:

from Scientist name

to Scientist name

weight Measure of strength of collaboration

Source

[Newman, 2006](#)

Examples

netscience

ontariopol_edgelist *Ontario politician Twitter interaction network edgelist*

Description

Edgelist of Twitter interaction network of Ontario province politicians

Usage

```
ontariopol_edgelist
```

Format

A dataframe with 6095 rows and 3 variables:

from Politician ID

to Politician ID

weight Number of Twitter interactions

Source

[Christopher Belanger](#)

Examples

```
ontariopol_edgelist
```

ontariopol_vertices *Ontario politician Twitter interaction network vertices*

Description

Vertices of Twitter interaction network of Ontario province politicians

Usage

```
ontariopol_vertices
```

Format

A dataframe with 108 rows and 4 variables:

id Politician ID

screen_name Politician Twitter screen name

name Politician name

party Party affiliation

Source

Christopher Belanger

Examples

ontariopol_vertices

park_reviews	<i>Yelp park reviews</i>
--------------	--------------------------

Description

Data on Yelp reviews of dog parks in Phoenix, AZ

Usage

park_reviews

Format

A dataframe with 231 rows and 4 variables:

park_id Park ID

user_id User ID

park_name Park name

stars Number of stars awarded by user

Examples

park_reviews

pizza	<i>Random Acts of Pizza</i>
-------	-----------------------------

Description

Data on altruistic acts by Reddit users fulfilling random requests for pizza

Usage

pizza

Format

A dataframe with 400 rows and 5 variables:

requester ID of the requester

responder ID of the individual who responded by ordering pizza for the requester

request_id ID of the request

requester_votes Number of Reddit votes made by the requester

requester_subreddits Number of subreddits which the requester is a member of

Source

[Althoff et al, 2014](#)

Examples

pizza

s50_edges

Teenage Friends and Lifestyle Study network edgelist

Description

Edgelist of friend network of teenage girls in Scotland

Usage

s50_edges

Format

A dataframe with 122 rows and 2 variables:

from Person ID

to Person ID

Source

[Pearson & Michell, 2009](#)

Examples

s50_edges

`s50_vertices`*Teenage Friends and Lifestyle Study network vertices*

Description

Vertices of friend network of teenage girls in Scotland

Usage`s50_vertices`**Format**

A dataframe with 50 rows and 5 variables:

id Person ID

smoke Frequency of smoking from 1 (Never) to 3 (Regularly)

alcohol Frequency of drinking alcohol from 1 (Never) to 5 (More than once a week)

drugs Frequency of cannabis use from 1 (Never) to 4 (Regularly)

sport Frequency of sporting activity from 1 (Not regularly) to 2 (Regularly)

Source

[Pearson & Michell, 2009](#)

Examples`s50_vertices`

`schoolfriends_edgelist`*Schoolfriends network edgelist*

Description

Edgelist of network of schoolfriends in a French high school

Usage`schoolfriends_edgelist`

Format

A dataframe with 2105 rows and 3 variables:

from Person ID

to Person ID

type Whether the friendship is a known Facebook connection or if it was reported by from person

Source

[Mastandrea et al, 2015](#)

Examples

```
schoolfriends_edgelist
```

```
schoolfriends_vertices
```

Schoolfriends network vertices

Description

Vertices of network of schoolfriends in a French high school

Usage

```
schoolfriends_vertices
```

Format

A dataframe with 329 rows and 3 variables:

id Person ID

class School class of person

gender Gender of person

Source

[Mastandrea et al, 2015](#)

Examples

```
schoolfriends_vertices
```

wikivote	<i>Wikipedia administrator voting network</i>
----------	---

Description

Edgelist of network of votes for Wikipedia administrators

Usage

```
wikivote
```

Format

A dataframe with 103688 rows and 2 variables:

from ID of voter

to ID of vote recipient

Examples

```
wikivote
```

workfrance_edgelist	<i>Workplace network edgelist</i>
---------------------	-----------------------------------

Description

Edgelist of network of interactions between people in a French office building based on location sensor technology

Usage

```
workfrance_edgelist
```

Format

A dataframe with 932 rows and 3 variables:

from Person ID

to Person ID

mins Number of minutes spent co-located

Source

[Génois et al, 2015](#)

Examples

```
workfrance_edgelist
```

workfrance_vertices *Workplace network vertices*

Description

Vertices of network of interactions between people in a French office building based on location sensor technology

Usage

```
workfrance_vertices
```

Format

A dataframe with 211 rows and 2 variables:

id Person ID

dept Department of person

Source

[Génois et al, 2015](#)

Examples

```
workfrance_vertices
```

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