

Package ‘gcookbook’

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Type Package

Title Data for ``R Graphics Cookbook''

Version 2.0.1

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License GPL-2

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aapl *Apple stock data*

Description

Weekly stock data for AAPL (Apple, Inc.) from 1984 to 2012.

Usage

aapl

Variables

- date
- adj_price: Price, adjusted for splits and dividends.

anthoming *Homing in desert ants*

Description

Data from an experiment on the homing performance of a desert ant, *Cataglyphis bicolor*.

Usage

anthoming

Variables

- angle: Angle between true home direction and the direction that the ant went in (positive is clockwise).
- expt: Number of ants in the experimental condition that went in this direction.
- ctrl: Number of ants in the control condition that went in this direction.

Source

Hand, D.J., Daly, F., Lunn, A.D., McConway, K.J. & Ostrowski, E. (1994), *A Handbook of Small Data Sets*, Chapman & Hall.

Duelli, P. and Wehner, R. (1973), The spectral sensitivity of polarized light orientation in *Cataglyphis bicolor* (Formicidae, Hymenoptera). *Journal of Comparative Physiology*, **86**, 36-53.

cabbage_exp	<i>Summary of cabbages data set</i>
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Description

This data set has groupwise means, standard deviations, counts, and standard error of the mean for the [cabbages](#) data set from the MASS package. The purpose of this summarized data set is to make it easy to use for example graphs.

Usage

cabbage_exp

See Also

The source data set in the MASS package, [cabbages](#).

climate	<i>Global climate temperature anomaly data from 1800 to 2011</i>
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Description

This data set includes estimated global temperature anomaly data for the years 1800 through 2011. The anomaly is the difference from the baseline temperature, which is the mean of the yearly temperatures from 1951-1980.

Usage

climate

Variables

- Source: Data source (Berkeley, CRUTEM3, NASA).
- Year: Year for the estimate.
- Anomaly1y: Temperature anomaly in Celcius, smoothed over one year.
- Anomaly5y: Temperature anomaly in Celcius, smoothed over five years.
- Anomaly10y: Temperature anomaly in Celcius, smoothed over ten years.
- Unc10y: Uncertainty for 10-year-smoothed anomaly.

Source

Berkeley Earth Project: <http://berkeleyearth.org/land-and-ocean-data/>

Climatic Research Unit (CRUTEM3): <https://crudata.uea.ac.uk/cru/data/crutm3/>

NASA: <https://data.giss.nasa.gov/gistemp/>

corneas

Corneal thickness of eyes

Description

Corneal thickness of eight people who had glaucoma in one eye.

Usage

corneas

Variables

- affected Corneal thickness (in microns) of eye affected by glaucoma.
- notaffected Corneal thickness (in microns) of eye not affected by glaucoma.

Source

Hand, D.J., Daly, F., Lunn, A.D., McConway, K.J. & Ostrowski, E. (1994), *A Handbook of Small Data Sets*, Chapman & Hall.

Ehlers, N. On corneal thickness and introcular pressure, II. (1970). *Acta Ophthalmologica*, **48**, 1107-1112.

countries

Health and economic data about countries around the world from 1960-2010

Description

Health and economic data about countries around the world from 1960-2010, from the World Bank.

Usage

countries

Variables

- Name: Name of country
- Code: Short country code
- Year
- GDP: Per capita Gross Domestic Product, in adjusted 2011 U.S. Dollars
- laborrate: Labor rate.
- healthexp: Health expenditures in U.S. Dollars.
- infmortality: Infant mortality per 1000 live births.

Source

World Bank: <https://data.worldbank.org/>

drunk	<i>Convictions for drunkenness</i>
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Description

Number of people convicted for drunkenness at Tower Bridge and Lambeth Magistrates' Courts from January 1 to June 27, 1970, classified by age and sex.

Usage

drunk

Source

Hand, D.J., Daly, F., Lunn, A.D., McConway, K.J. & Ostrowski, E. (1994), *A Handbook of Small Data Sets*, Chapman & Hall.

Cook, T. (1971). *New Society*, 20 May, 1971.

gcookbook	<i>gcookbook: Data sets for "R Graphics Cookbook"</i>
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Description

This package contains data sets used in the book "R Graphics Cookbook" by Winston Chang, published by O'Reilly Media.

Author(s)

Maintainer: Winston Chang <winston@stdout.org>

heightweight *Height and weight of schoolchildren*

Description

Height and weight of schoolchildren

Usage

heightweight

Variables

- sex
- ageYear: Age in years.
- ageMonth: Age in months.
- heightIn: Height in inches.
- weightLb: Weight in pounds.

Source

Lewis, T., & Taylor, L.R. (1967), *Introduction to Experimental Ecology*, Academic Press.

isabel *Data from simulation of hurricane Isabel*

Description

This data is from a simulation of hurricane Isabel in 2003. It includes temperature and wind data for a 2139km (east-west) x 2004km (north-south) x 19.8km (vertical) volume. The simulation data is from the National Center for Atmospheric Research, and it was used in the IEEE Visualization 2004 Contest.

Usage

isabel

Variables

- x: Latitude (x coordinate).
- y: Longitude (y coordinate).
- z: Height in km (z coordinate).
- vx: x wind component in m/s
- vy: y wind component in m/s
- vz: z wind component in m/s
- t: Temperature in Celcius
- speed: wind speed, $\sqrt{vx^2 + vy^2 + vz^2}$

Source

<http://vis.computer.org/vis2004contest/data.html>

<https://ncar.ucar.edu/>

madmen

Successful sexual relations in Mad Men (TV show)

Description

Each row of this data frame represents a pair of characters who had a sexual relationship on the TV show Mad Men, as of the end of season 4. This data can be displayed with an undirected graph.

Usage

madmen

Variables

The placement of names in column Name1 as opposed to Name2 is arbitrary, and not meaningful. In other words, for any row, you can swap the values of Name1 and Name2, and it will represent the same information.

- Name1: Name of one sexual partner.
- Name2: Name of another sexual partner.

Source

Wired Magazine 20.02, February 2012

See Also

For a list of attempted sexual pairings, see [madmen2](#).

madmen2

Attempted sexual relations in Mad Men (TV show)

Description

Each row of this data frame represents a pair of characters on the TV show Mad Men, as of the end of season 4. Each row represents an attempted sexual relation: the character in the first column, Name1, attempted to have sex with the character in the second column, Name2. If the relationship goes in both directions (the characters had sex with each other), then there will be two rows, representing each direction. This data can be displayed with a directed graph.

Usage

madmen2

Variables

- Name1: Character who made sexual advances.
- Name2: Character who was the target of sexual advances.

Source

Wired Magazine 20.02, February 2012

See Also

For a list of successful sexual pairings, see [madmen](#).

marathon

Marathon and half-marathon times

Description

This data set contains mrathon and half-marathon running times for 520 people. Each row represents one person's times.

Usage

marathon

Variables

- Half: Time in minutes, for half marathon.
- Full: Time in minutes, for full marathon.

Source

Downey, A.B. (2011), *Think Stats*, O'Reilly Media.

pg_mean

Means of results from an experiment on plant growth

Description

This data set simply has groupwise means of the [PlantGrowth](#) data set. The purpose of this summarized data set is to make it easy to use for example graphs.

Usage

pg_mean

Source

Dobson, A. J. (1983) *An Introduction to Statistical Modelling*, Chapman & Hall.

See Also

The source data set, [PlantGrowth](#).

plum

Plum root cuttings (long format)

Description

This is data from an experiment to investigate the effect of cutting length and planting time on the survival of plum root cuttings.

Usage

plum

Variables

- length: Cutting length.
- time: Planting time.
- survival: Survival status.
- count: Number of plants.

Source

Hand, D.J., Daly, F., Lunn, A.D., McConway, K.J. & Ostrowski, E. (1994), *A Handbook of Small Data Sets*, Chapman & Hall.

Bartlett, M.S. (1935), Contingency table interactions, *Journal of the Royal Statistical Society Supplement*, **2**, 248-252.

See Also

This data frame is in "long" format. See [plum_wide](#) for the same data in "wide" format.

plum_wide	<i>Plum root cuttings (wide format)</i>
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Description

This is data from an experiment to investigate the effect of cutting length and planting time on the survival of plum root cuttings.

Usage

```
plum_wide
```

Variables

- length: Cutting length.
- time: Planting time.
- dead: Number of dead plants in this condition.
- alive: Number of alive plants in this condition.

Source

Hand, D.J., Daly, F., Lunn, A.D., McConway, K.J. & Ostrowski, E. (1994), *A Handbook of Small Data Sets*, Chapman & Hall.

Bartlett, M.S. (1935), Contingency table interactions, *Journal of the Royal Statistical Society Supplement*, **2**, 248-252.

See Also

This data frame is in "wide" format. See [plum](#) for the same data in "long" format.

simpledat	<i>Simple example data set</i>
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Description

This data set is for examples of R graphics.

Usage

```
simpledat
```

See Also

This data frame is in "wide" format. See [simpledat_long](#) for the same data in "long" format.

simpledat_long	<i>Simple example data set (long format)</i>
----------------	--

Description

This data set is for examples of R graphics.

Usage

```
simpledat_long
```

See Also

This data frame is in "long" format. See [simpledat](#) for the same data in "wide" format.

tg	<i>Summarized ToothGrowth data</i>
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Description

Summarized ToothGrowth data

Usage

```
tg
```

Variables

- supp
- dose
- length

See Also

[ToothGrowth](#)

tophitters2001

Batting averages of the top hitters in Major League Baseball in 2001

Description

Batting statistics for the top 144 hitters in Major League Baseball in 2001.

Usage

tophitters2001

Variables

Variables:

- id: Unique player id
- first: First name
- last: Last name
- name: Full name (first and last)
- year: Year of data
- stint
- team: Abbreviation of team played for
- lg: League (American League or National League)
- g: Number of games
- ab: Number of times at bat
- r: Number of runs
- h: Number of hits (times reached base because of a batted, fair ball without error by the defense)
- 2b: Hits on which the batter reached second base safely
- 3b: Hits on which the batter reached third base safely
- hr: Number of home runs
- rbi: Runs batted in
- sb: Stolen bases
- cs: Caught stealing
- bb: Base on balls (walk)
- so: Strike outs
- ibb: Intentional base on balls
- hbp: Hits by pitch
- sh: Sacrifice hits
- sf: Sacrifice flies
- gidp: Ground into double-play
- avg: Batting average (hits divided by at-bats)

Source

<http://www.baseball-databank.org/>.

uspopage

Age distribution of population in the United States, 1900-2002

Description

These are the estimated (not counted) values by the U.S. Census.

Usage

uspopage

Variables

- Year
- AgeGroup
- Thousands: Number of people, in thousands.

Source

U.S. Census Bureau, Statistical Abstract of the United States, 2003, HS-3: <http://www2.census.gov/library/publications/2004/compendia/statab/123ed/hist/hs-03.pdf>

uspopchange

Change in population of states in the U.S. between 2000 and 2010

Description

This data set represents the percent change in population of states in the U.S. from 2000 to 2010.

Usage

uspopchange

Variables

- State
- Abb: Abbreviated state name.
- Region: Region of country that the state is in.
- Change: Percent change in population.

Source

U.S. Census Bureau, Statistical Abstract of the United States, 2012, Table 14. <https://www2.census.gov/library/publications/2011/compendia/statab/131ed/2012-statab.pdf>

wind

Wind speed and direction

Description

This data set contains the wind speed and direction over the course of a single day in Chicago (February 29, 2012).

Usage

wind

Variables

- TimeUTC: Time of day in minutes; 0 is midnight.
- Temp: Temperature in Celcius.
- WindAvg: Average wind speed in m/s in this time block.
- WindMax: Maximum wind speed in m/s in this time block.
- WindDir: Average direction that wind comes from (0=north, 90=east).
- SpeedCat: Average wind speed, categorized in 5 m/s groups.
- DirCat: Average direction, categorized in 15-degree groups.

Source

Great Lakes Environmental Research Laboratory: <http://www.glerl.noaa.gov/metdata/chi/>

worldpop

World population estimates from 10,000 B.C. to 2,000 A.D.

Description

World population estimates from 10,000 B.C. to 2,000 A.D.

Usage

worldpop

Variables

- Year
- Population: Estimated population, in thousands

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