Package 'dslabs'

October 13, 2022

Title Da	ata Science Labs
Version	0.7.4
we	tion Datasets and functions that can be used for data analysis practice, homeork and projects in data science courses and workshops. 26 datasets are available for case studes in data visualization, statistical inference, modeling, linear regression, data wraning and machine learning.
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admissions

Gender bias among graduate school admissions to UC Berkeley.

Description

The admission data for six majors for the fall of 1973; often used as an example of Simpson's paradox

Usage

data(admissions)

Format

An object of class "data.frame".

Details

- major. The major or university department.
- gender. Men or women.
- admitted. Percent of students admitted.
- applicants. Total number of applicants.

Source

PJ Bickel, EA Hammel, and JW O'Connell. Science (1975)

brca 3

Examples

data(admissions)
admissions

brca

Breast Cancer Wisconsin Diagnostic Dataset from UCI Machine Learning Repository

Description

Biopsy features for classification of 569 malignant (cancer) and benign (not cancer) breast masses.

Usage

data(brca)

Format

An object of class list.

Details

Features were computationally extracted from digital images of fine needle aspirate biopsy slides. Features correspond to properties of cell nuclei, such as size, shape and regularity. The mean, standard error, and worst value of each of 10 nuclear parameters is reported for a total of 30 features.

This is a classic dataset for training and benchmarking machine learning algorithms.

- y. The outcomes. A factor with two levels denoting whether a mass is malignant ("M") or benign ("B").
- x. The predictors. A matrix with the mean, standard error and worst value of each of 10 nuclear measurements on the slide, for 30 total features per biopsy:
 - radius. Nucleus radius (mean of distances from center to points on perimeter).
 - texture. Nucleus texture (standard deviation of grayscale values).
 - perimeter. Nucleus perimeter.
 - area. Nucleus area.
 - smoothness. Nucleus smoothness (local variation in radius lengths).
 - compactness. Nucleus compactness (perimeter^2/area 1).
 - concavity, Nucleus concavity (severity of concave portions of the contour).
 - concave_pts. Number of concave portions of the nucleus contour.
 - symmetry. Nucleus symmetry.
 - fractal_dim. Nucleus fractal dimension ("coastline approximation" -1).

Source

UCI Machine Learning Repository

brexit_polls

Examples

```
data(brca)
table(brca$y)
dim(brca$x)
head(brca$x)
```

brexit_polls

Brexit Poll Data

Description

Brexit (EU referendum) poll outcomes for 127 polls from January 2016 to the referendum date on June 23, 2016.

Usage

```
data(brexit_polls)
```

Format

An object of class "data.frame".

Details

- startdate. Start date of poll.
- enddate. End date of poll.
- pollster. Pollster conducting the poll.
- poll_type. Online or telephone poll.
- samplesize. Sample size of poll.
- remain. Proportion voting Remain.
- leave. Proportion voting Leave.
- undecided. Proportion of undecided voters.
- spread. Spread calculated as remain leave.

Source

Wikipedia

```
data(brexit_polls)
head(brexit_polls)
```

death_prob 5

death_prob

2015 US Period Life Table

Description

Probability of death within 1 year by age and sex in the United States in 2015.

Usage

```
data(death_prob)
```

Format

An object of class "data.frame".

Details

- age. Age strata, with each year a different stratum.
- sex. Male or Female.
- prob. Probability of death within 1 year given exact age and sex.

Source

Social Security Administraton

Examples

```
data(death_prob)
head(death_prob)
```

divorce_margarine

Divorce rate and margarine consumption data

Description

Divorce rates in Maine and per capita consumption of margarine in US data

Usage

```
data(divorce_margarine)
```

Format

An object of class "data.frame".

ds_theme_set

Details

- divorce_rate_maine. Divorce per 1000 in Maine.
- margarine_consumption_per_capita. US per capita consumption of margarine in pounds.
- · year. Year.

Source

Spurious Correlations

Examples

```
data(divorce_margarine)
with(divorce_margarine, plot(margarine_consumption_per_capita, divorce_rate_maine))
```

 ds_theme_set

dslabs theme set

Description

This function sets a ggplot2 theme used throughout the data science labs. It can be called without arguments.

Usage

```
ds_theme_set(
  new = "theme_bw",
  args = NULL,
  base_size = 11,
  bold_title = TRUE,
  ...
)
```

Arguments

new a prebuilt ggplot2 theme. Defaults to "theme_minimal"

the arguments to be passed along to the ggplot2 theme function. Defaults to "NULL".

base_size if "args" is "NULL", base_size is one of the arguments passed to the theme function. It defaults to 11.

bold_title if TRUE, sets titles to be bold

... additional arguments to be used by theme

Value

None

gapminder 7

Examples

```
library(ggplot2)
ds_theme_set()
qplot(hp, mpg, data=mtcars, color=am, facets=gear~cyl,
main="Scatterplots of MPG vs. Horsepower",
xlab="Horsepower", ylab="Miles per Gallon")
```

gapminder

Gapminder Data

Description

Health and income outcomes for 184 countries from 1960 to 2016. Also includes two character vectors, oecd and opec, with the names of OECD and OPEC countries from 2016.

Usage

```
data(gapminder)
```

Format

An object of class "data.frame".

Details

- country.
- year.
- infant_mortality. Infant deaths per 1000.
- life_expectancy. Life expectancy in years.
- fertility. Average number of children per woman.
- population. Country population.
- gpd. GDP according to World Bankdev.
- continent.
- region. Geographical region.

```
data(gapminder)
head(gapminder)
print(oecd)
print(opec)
```

8 heights

greenhouse_gases

Greenhouse gas concentrations over 2000 years

Description

Concentrations of the three main greenhouse gases carbon dioxide, methane and nitrous oxide. Measurements are from the Law Dome Ice Core in Antarctica. Selected measurements are provided every 20 years from 1-2000 CE.

Usage

```
data(greenhouse_gases)
```

Format

An object of class "data.frame".

Details

- year. Year (CE).
- gas. Gas being measured: carbon dioxide ('CO2'), methane ('CH4') or nitrous oxide ('N2O').
- concentration. Gas concentration in ppm by volume ('CO2') or ppb by volume ('CH4', 'N2O').

Source

MacFarling Meure et al. 2006 via NOAA.

Examples

```
data(greenhouse_gases)
head(greenhouse_gases)
```

heights

Self-Reported Heights

Description

Self-reported heights in inches for males and females.

Usage

```
data(heights)
```

historic_co2

Format

An object of class "data.frame".

Details

- sex. Male or Female.
- height. Height in inches.

Examples

```
data(heights)
head(heights)
```

historic_co2

Atmospheric carbon dioxide concentration over 800,000 years

Description

Concentration of carbon dioxide in ppm by volume from direct measurements at Mauna Loa (1959-2018 CE) and indirect measurements from a series of Antarctic ice cores (approx. -800,000-2001 CE).

Usage

```
data(historic_co2)
```

Format

An object of class "data.frame".

Details

- year. Year (CE).
- co2. Carbon dioxide concentration in ppm by volume.
- source. Source of carbon dioxide measurement: direct CO2 annual mean concentrations from Mauna Loa ('Mauna Loa') or indirect CO2 concentrations from air trapped in ice cores ('Ice Cores').

Source

Mauna Loa data from NOAA. Ice core data from Bereiter et al. 2015 via NOAA.

```
data(historic_co2)
head(historic_co2)
```

10 mnist_27

mnist_27

Useful example for illustrating machine learning algorithms based on MNIST data

Description

We only include a randomly selected set of 2s and 7s along with the two predictors based on the proportion of dark pixels in the upper left and lower right quadrants respectively. The dataset is divided into training and test sets.

Usage

```
data(mnist_27)
```

Format

An object of class list.

Details

- train. A data frame containing training data: labels and predictors.
- test. A data frame containing test data: labels and predictors.
- index_train. The index of the original mnist training data used for the training set.
- index_test. The index of the original mnist test data used for the test set.
- true_p. A data. frame containing the two predictors x_1 and x_2 and the conditional probability of being a 7 for x_1, x_2.

References

Y. LeCun, L. Bottou, Y. Bengio, and P. Haffner. "Gradient-based learning applied to document recognition." Proceedings of the IEEE, 86(11):2278-2324, November 1998.

See Also

```
[read_mnist()]
```

movielens 11

movielens

Movie ratings

Description

MovieLens Latest Dataset (Small)

Usage

data(movielens)

Format

Two object of class data. frame.

Details

- movieId. Unique ID for the movie.
- title. Movie title (not unique).
- year. Year the movie was released.
- genres. Genres associated with the movie.
- userId. Unique ID for the user.
- rating. A rating between 0 and 5 for the movie.
- timestamp. Date and time the rating was given.

Source

http://files.grouplens.org/datasets/movielens/ml-latest-small.zip

References

F. Maxwell Harper and Joseph A. Konstan. 2015. The MovieLens Datasets: History and Context. ACM Transactions on Interactive Intelligent Systems (TiiS) 5, 4, Article 19 (December 2015), 19 pages. DOI=http://dx.doi.org/10.1145/2827872

```
data(movielens)
head(movielens)
```

na_example

murders

US gun murders by state for 2010

Description

Gun murder data from FBI reports. Also contains the population of each state.

Usage

```
data(murders)
```

Format

An object of class "data.frame".

Details

- state. US state
- abb. Abbreviation of US state
- region. Geographical US region
- population. State population (2010)
- total. Number of gun murders in state (2010)

Source

Wikipedia

Examples

```
data(murders)
print(murders)
```

na_example

Count data with some missing values

Description

This dataset was randomly generated.

Usage

```
data(na_example)
```

Format

An object of class "integer".

nyc_regents_scores 13

Examples

```
data(na_example)
print(sum(is.na(na_example)))
```

nyc_regents_scores

NYC Regents exams scores 2010

Description

Distribution of scores for New York City Regents algebra, global history, biology, English, and U.S. history exams. These data were used to make this New York Times plot.

Usage

```
data(nyc_regents_scores)
```

Format

An object of class "data.frame".

Details

- score. Test score from 0 to 100.
- integrated_algebra. Score frequency on Algebra exam.
- global_history. Score frequency on global history exam.
- living_environment. Score frequency on biology exam.
- english. Score frequency on English exam.
- us_history. Score frequency on U.S. history exam.

Source

New York City Department of Education via Amanda Cox.

```
data(nyc_regents_scores)
print(nyc_regents_scores)
```

14 olive

olive

Italian olive

Description

Composition in percentage of eight fatty acids found in the lipid fraction of 572 Italian olive oils

Usage

```
data(olive)
```

Format

An object of class "data.frame".

Details

- region. General region of Italy.
- area. Area of Italy.
- palmitic. Percent palmitic acid of sample.
- palmitoleic. Percent palmitoleic of sample.
- stearic. Percent stearic acid of sample.
- oleic. Percent oleic acid of sample.
- linoleic. Percent linoleic acid of sample.
- linolenic. Percent linolenic acid of sample.
- arachidic. Percent arachidic acid of sample.
- eicosenoic. Percent eicosenoic acid of sample.

Source

J. Zupan, and J. Gasteiger. Neural Networks in Chemistry and Drug Design.

```
data(olive)
head(olive)
```

outlier_example 15

outlier_example

Adult male heights in feet with outliers

Description

This dataset was randomly generated with a normal distribution (average: 5 feet 9 inches, standard deviation: 3 inches). One value was changed to be mistakenly reported in centimeters rather than feet.

Usage

```
data(outlier_example)
```

Format

An object of class "numeric".

Examples

```
data(outlier_example)
mean(outlier_example)
median(outlier_example)
```

polls_2008

Poll data for popular vote in 2008 presidential election

Description

Data from different pollsters for the popular vote between Obama and McCain in the 2008 presidential election.

Usage

```
data(polls_2008)
```

Format

An object of class data. frame.

Details

- day. Days until election day. Negative numbers are reported so that days can increase up to 0, which is election day.
- margin. Average difference between Obama and McCain for that day.

Source

https://web.archive.org/web/20161108190914/http://www.pollster.com/08USPresGEMvO-2.html

Examples

```
data(polls_2008)
with(polls_2008, plot(day, margin))
```

polls_us_election_2016

Fivethirtyeight 2016 Poll Data

Description

Poll results from US 2016 presidential elections aggregated from HuffPost Pollster, RealClearPolitics, polling firms, and news reports. The dataset also includes election results (popular vote) and electoral college votes in results_us_election_2016.

Usage

```
data(polls_us_election_2016)
```

Format

An object of class "data.frame".

Details

- state. State in which poll was taken. 'U.S' is for national polls.
- startdate. Poll's start date.
- enddate. Poll's end date.
- pollster. Pollster conducting the poll.
- grade. Grade assigned by fivethirtyeight to pollster.
- samplesize. Sample size.
- population. Type of population being polled.
- rawpoll_clinton. Percentage for Hillary Clinton.
- rawpoll_trump. Percentage for Donald Trump
- rawpoll_johnson. Percentage for Gary Johnson
- rawpoll_mcmullin. Percentage for Evan McMullin.
- adjpoll_clinton. Fivethirtyeight adjusted percentage for Hillary Clinton.
- ajdpoll_trump. Fivethirtyeight adjusted percentage for Donald Trump
- adjpoll_johnson. Fivethirtyeight adjusted percentage for Gary Johnson
- adjpoll_mcmullin. Fivethirtyeight adjusted percentage for Evan McMullin.

read_mnist 17

Source

```
The original csv file used to create polls_us_election_2016 is here: https://projects.fivethirtyeight.com/general-model/president_general_polls_2016.csv
```

The data for results_us_election_2016 is from Ballotpedia and can be found here: https://docs.google.com/spreadsheets/d/1zxyOQDjNOJS_UkzerorUCf2OAdcMcIQEwRciKuYBIZ4/pubhtml?widget=true&headers=false#gid=658726802/

Examples

```
data(polls_us_election_2016)
head(polls_us_election_2016)
```

read_mnist

Download and read the mnist dataset

Description

This function downloads the mnist training and test data available here http://yann.lecun.com/exdb/mnist/

Usage

```
read_mnist(
  path = NULL,
  download = FALSE,
  destdir = tempdir(),
  url = "https://www2.harvardx.harvard.edu/courses/IDS_08_v2_03/",
  keep.files = TRUE
)
```

Arguments

path	A character giving the full path of the directory to look for files. It assumes the filenames are the same as the originals. If path is NULL a download or direct read of the files is attempted.
download	If TRUE the files will be downloaded and saved in detsdir.
destdir	A character giving the full path of the directory in which to save the downloaded files. The default is to use a temporary directory.
url	A character giving the URL from which to download files. Currently a copy of the data is available at https://www2.harvardx.harvard.edu/courses/IDS_08_v2_03/, the current default URL.
keep.files	A logical. If TRUE the downloaded files will be saved in destdir. If FALSE the entire directory is erased. This argument is ignored if download is FALSE.)

18 reported_heights

Value

A list with two components: train and test. Each of these is a list with two components: images and labels. The images component is a matrix with each column representing one of the 28*28 = 784 pixels. The values are integers between 0 and 255 representing grey scale. The labels components is a vector representing the digit shown in the image.

Note that the data is over 10MB, so the download may take several seconds depending on internet speed. If you plan to load the data more than once we recommend you download the data once and read it from disk in the future. See examples.

Author(s)

Samuela Pollack

Rafael A. Irizarry, <rafael_irizarry@dfci.harvard.edu>

References

Y. LeCun, L. Bottou, Y. Bengio, and P. Haffner. "Gradient-based learning applied to document recognition." Proceedings of the IEEE, 86(11):2278-2324, November 1998.

Examples

 ${\tt reported_heights}$

Self-reported Heights

Description

Students were asked to report their height (in inches) and sex in an online form. This table includes the results from four courses.

research_funding_rates

Usage

```
data(reported_heights)
```

Format

An object of class "data.frame".

Details

- time_stamp. Time and date of the entry.
- sex. Sex of the student.
- height. Height as reported by student by filling in a text free box.

Examples

```
data(reported_heights)
head(reported_heights)
```

research_funding_rates

Gender bias in research funding in the Netherlands

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Description

Table S1 from paper title "Gender contributes to personal research funding success in The Netherlands"

Usage

```
data(research_funding_rates)
```

Format

An object of class "data.frame".

Details

- discipline. Research area discipline.
- applications_total. Total applications.
- applications_men. Total applications by men.
- applications_women. Total applications by women.
- awards_total. Total awards.
- awards_men. Total awards received by men.
- awards_women. Total awards received by women.
- success_rates_total. Overall success rate.
- success_rates_men. Success rate for men.
- success_rates_women. Success rate for women.

20 rfalling_object

Source

van der Lee and Ellemers (2015) PNAS https://www.pnas.org/content/112/40/12349.abstract/

Examples

```
data(research_funding_rates)
research_funding_rates
# The raw data for this table is available from
data(raw_data_research_funding_rates)
```

rfalling_object

Simulate falling object data

Description

The function simulates a falling object's position. Default parameters are for dropping a weight from the tower of Pisa.

Usage

```
rfalling_object(
    n = 14,
    d_0 = 55.86,
    v_0 = 0,
    g = -9.8,
    scale = 1,
    time = seq(0, 3.25, length.out = n),
    error_distribution = c("rnorm", "rt"),
    df = 3
)
```

Arguments

n	Sample size			
d_0	Height from which object will fall in meters.			
v_0	Initial velocity with which object will fall in meters per second.			
g	Gravitational constant, 9.8 meters per second per seonnd			
scale	The measurement errors will be multiplied by this constant.			
time	Numeric vector of times, in seconds, at which measurements were taken.			
error_distribution				
	Character. Either rnorm for normal or rt for t-distribution.			
df	If using t-distribution, the degrees of freedom.			

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Value

A data. frame with the time, the distance travelled, and the observed distance.

Examples

```
dat <- rfalling_object()
with(dat, plot(time, observed_distance))
with(dat, lines(time, distance, col = "blue"))</pre>
```

stars

Physical Properties of Stars

Description

Physical properties of selected stars, including luminosity, temperature, and spectral class.

Usage

```
data(stars)
```

Format

An object of class "data.frame".

Details

- star. Name of star.
- magnitude. Absolute magnitude of the star, which is a function of the star's luminosity and distance to the star.
- temp. Surface temperature in degrees Kelvin (K).
- type. Spectral class of star in the OBAFGKM system.

Source

Compiled from multiple open-access references on VizieR.

```
data(stars)
head(stars)
```

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take_poll

Models results from taking a poll

Description

The function shows a plot of a random sample drawn from an urn with blue and red beads. The sample is taken with replacement. The proportion of blue beads is not shown so that students can try to estimate it.

Usage

```
take_poll(n, ...)
```

Arguments

n Sample size

additional arguments to be used by the function sample.

Value

None

Examples

```
take_pol1(25)
```

temp_carbon

Global temperature anomaly and carbon emissions, 1751-2018

Description

Annual mean global temperature anomaly on land, sea and combined, 1880-2018. Annual global carbon emissions, 1751-2014.

Usage

```
data(temp_carbon)
```

Format

An object of class "data.frame".

tissue_gene_expression 23

Details

- year. Year (CE).
- temp_anomaly. Global annual mean temperature anomaly in degrees Celsius relative to the 20th century mean temperature. 1880-2018.
- land_anomaly. Annual mean temperature anomaly on land in degrees Celsius relative to the 20th century mean temperature. 1880-2018.
- ocean_anomaly. Annual mean temperature anomaly over ocean in degrees Celsius relative to the 20th century mean temperature. 1880-2018.
- carbon_emissions. Annual carbon emissions in millions of metric tons of carbon. 1751-2014.

Source

NOAA and Boden, T.A., G. Marland, and R.J. Andres (2017) via CDIAC

Examples

```
data(temp_carbon)
head(temp_carbon)
```

tissue_gene_expression

Gene expression profiles for 189 biological samples taken from seven different tissue types.

Description

This is a subset of the data provided by the tissuesGeneExpression package available from the genomicsclass GitHub repository. The predictors are gene expression measurements from 500 genes that are a random subset of the original 22,215.

Usage

```
data(tissue_gene_expression)
```

Format

An object of class list.

Details

The example dataset is recommended for illustrating clustering and machine learning techniques.

- x. The predictors composed of 500 genes. Each row is a gene expression profile and each column is different gene. The column names are the gene symbols.
- y. The outcomes. A character vector representing the tissue. One of seven tissue types.

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Source

https://github.com/genomicsclass/tissuesGeneExpression

Examples

```
data(tissue_gene_expression)
table(tissue_gene_expression$y)
dim(tissue_gene_expression$x)
```

trump_tweets

Trump Tweets from 2009 to 2017

Description

All tweets from Donald Trump's twitter account from 2009 to 2017

Usage

```
data(trump_tweets)
```

Format

An object of class "data.frame".

Details

- source. Device or service used to compose tweet.
- id_str. Tweet ID.
- text. Tweet.
- created_at. Data and time tweet was tweeted.
- retweet_count. How many times tweet had been retweeted at time dataset was created.
- in_reply_to_user_id_str. If a reply, the user id of person being replied to.
- favorite_count. Number of times tweet had been favored at time dataset was created.
- is_retweet. A logical telling us if it is a retweet or not.

Source

The Trump Twitter Archive: https://www.thetrumparchive.com/

```
data(trump_tweets)
head(trump_tweets)
```

us_contagious_diseases 25

us_contagious_diseases

Contagious disease data for US states

Description

Yearly counts for Hepatitis A, Measles, Mumps, Pertussis, Polio, Rubella, and Smallpox for US states. Original data courtesy of Tycho Project (http://www.tycho.pitt.edu/).

Usage

```
data(us_contagious_diseases)
```

Format

An object of class "data.frame".

Details

- disease. A factor containing disease names.
- state. A factor containing state names.
- · year.
- weeks_reporting. Number of weeks counts were reported that year.
- count. Total number of reported cases.
- population. State population, interpolated for non-census years.

Source

Tycho Project

References

Willem G. van Panhuis, John Grefenstette, Su Yon Jung, Nian Shong Chok, Anne Cross, Heather Eng, Bruce Y Lee, Vladimir Zadorozhny, Shawn Brown, Derek Cummings, Donald S. Burke. Contagious Diseases in the United States from 1888 to the present. NEJM 2013; 369(22): 2152-2158.

```
data(us_contagious_diseases)
head(us_contagious_diseases)
```

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