

LOCK5DATA

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Title Dataset documentaton for the third edition of "Statistics: UnLocking the Power of Data"

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Documentation for these datasets has been generated from the manual for the Lock5Data package.

The package itself also includes versions of some fo the datasets for the first and second editions.

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ACS

*American Community Survey***Description**

Data from a sample of individuals in the American Community Survey

Format

A data frame with 2000 observations on the following 9 variables.

Sex 0=female and 1=male

Age Age (years)

Married 0=not married and 1=married

Income Wages and salary for the past 12 months (in \$1,000's)

HoursWk Hours of work per week

Race asian, black, other, or white

USCitizen 1=citizen and 0=noncitizen

HealthInsurance 1=have health insurance and 0=no health insurance

Language 1=English spoken at home and 0=other

Details

The American Community Survey, administered by the US Census Bureau, is given every year to a random sample of about 3.5 million households (about 3% of all US households). Data on a random sample of 1% of all US residents are made public (after ensuring anonymity), and we have selected a random sub-sample of $n = 2000$ from the 2017 data for this dataset.

** Updated for 3e (ealier verson is ACS2010). **

Source

The full public dataset can be downloaded at <http://www.census.gov/acs/www/datadocumentation/pumsdata/>, and the full list of variables are at <https://www.census.gov/programs-surveys/acs/data/pums.html>

AllCountries

All Countries

Description

Data on the countries of the world

Format

A data frame with 217 observations on the following 26 variables.

Country Country name

Code Three-letter code for country

LandArea Size in 1000 sq. km.

Population Population in millions

Density Number of people per square kilometer

GDP Gross Domestic Product (in \$US) per capita

Rural Percentage of population living in rural areas

CO2 CO2 emissions (metric tons per capita)

PumpPrice Price for a liter of gasoline (\$US)

Military Percentage of government expenditures directed toward the military

Health Percentage of government expenditures directed towards healthcare

ArmedForces Number of active duty military personnel (in 1,000's)

Internet Percentage of the population with access to the internet

Cell Cell phone subscriptions (per 100 people)

HIV Percentage of the population with HIV

Hunger Percent of the population considered undernourished

Diabetes Percent of the population diagnosed with diabetes

BirthRate Births per 1000 people

DeathRate Deaths per 1000 people

ElderlyPop Percentage of the population at least 65 years old

LifeExpectancy Average life expectancy (years)

FemaleLabor Percent of females 15 - 64 in the labor force

Unemployment Percent of labor force unemployed

Energy Kilotons of oil equivalent

Electricity Electric power consumption (kWh per capita)

Developed Categories for kilowatt hours per capita, 1= under 2500, 2=2500 to 5000, 3=over 5000

Details

Data for each variable were collected for 2018 (or most recently available year). Within a variable all country measurements are from the same year, but the year may vary between different variables depending on availability.

** This dataset is updated from an earlier versions (now Allcountries1e and AllCountries2e) **

Source

The data were gathered online from data.worldbank.org. Accessed June 2019.

APMultipleChoice *AP Multiple Choice*

Description

Correct responses on Advanced Placement multiple choice exams

Format

A dataset with 400 observations on the following variable.

Answer Correct response: A, B, C, D, or E

Details

Correct responses from multiple choice sections for a sample of released Advanced Placement exams

Source

Sample exams from several disciplines at <http://apcentral.collegeboard.com>

April14Temps *April 14th Temperatures*

Description

Temperatures in Des Moines, IA and San Francisco, CA on April 14th

Format

A data frame with 25 observations on the following 3 variables.

Year 1995 to 2019

DesMoines Temperature in Des Moines (degrees F)

SanFrancisco Temperature in San Francisco (degrees F)

Details

Average temperature for the day of April 14th in each of 25 years from 1995-2019

** Data set updated for 3e (earlier versions are now April14Temps1e and April14Temps2e) **

Source

The University of Dayton Average Daily Temperature Archive at <http://academic.udayton.edu/kissock/http/Weather/citylistUS.htm>

BaseballHits2019	<i>Baseball Team Statistics (2019)</i>
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Description

Number of hits, wins, and other stats for MLB teams in 2019

Format

A data frame with 30 observations on the following 14 variables.

Team Name of baseball team (3-character code)

League Either AL or NL

Wins Number of wins for the season

Runs Number of runs scored

Hits Number of hits

Doubles Number of doubles

Triples Number of triples

HomeRuns Number of home runs

RBI Number of runs batted in

StolenBases Number of stolen bases

CaughtStealing Number of times caught stealing

Walks Number of walks

Strikeouts Number of stikeouts

BattingAvg Team batting average

Details

Offensive team statistics for the 2019 Major League Baseball regular season.

** Updated for 3e (earlier versions are now BaseballHits2014 and BaseballHits1e)

Source

<http://www.baseball-reference.com/leagues/MLB/2019-standard-batting.shtml>

BaseballSalaries2019 *MLB Player Salaries in 2019*

Description

Opening Day salaries for all Major League Baseball players in 2019

Format

A data frame with 877 observations on the following 4 variables.

Name Player's name

Salary 2019 season salary (in millions)

Team Abbreviated team name

POS Code for player's main position

Details

Yearly salary (in millions of dollars) for all players on the rosters of Major League Baseball teams at the start of the 2019 season.

** Updated for 3e (ealier version for 2015 is at BaseballSalaries2015). **

Source

<http://www.usatoday.com/sports/mlb/salaries>

BaseballTimes *Baseball Game Times*

Description

Information for a sample of 30 Major League Baseball games played during the 2011 season

Format

A dataset with 30 observations on the following 9 variables.

Away	Away team name
Home	Home team name
Runs	Total runs scored (both teams)
Margin	Margin of victory
Hits	Total number of hits (both teams)
Errors	Total number of errors (both teams)
Pitchers	Total number of pitchers used (both teams)
Walks	Total number of walks (both teams)
Time	Elapsed time for game (in minutes)

Details

Data from a sample of boxscores for Major League Baseball games played in August 2011.

Source

<http://www.baseball-reference.com/boxes/2011.shtml>

Benford	<i>Benford data</i>
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Description

Two examples to test Benford's Law

Format

A dataset with 9 observations on the following 4 variables.

Digit	Leading digit (1-9)
BenfordP	Expected proportion according to Benford's law
Address	Frequency as a first digit in an address
Invoices	Frequency as the first digit in invoice amounts

Details

Leading digits from 1188 addresses sampled from a phone book and 7273 amounts from invoices sampled at a company.

Source

Thanks to Prof. Richard Cleary for providing the data

BikeCommute	<i>Bike Commute</i>
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Description

Commute times for two kinds of bicycle

Format

A dataset with 56 observations on the following 9 variables.

Bike	Type of material Carbon or Steel
Date	Date of the bike commute
Distance	Length of commute (in miles)
Time	Total commute time (hours:minutes:seconds)
Minutes	Time converted to minutes

AvgSpeed Average speed during the ride (miles per hour)
 TopSpeed Maximum speed (miles per hour)
 Seconds Time converted to seconds
 Month Categories: 1Jan 2Feb 3Mar 4Apr 5May 6June 7July

Details

Data from a personal experiment to compare commuting time based on a randomized selection between two bicycles made of different materials.

Source

Thanks to Dr. Groves for providing his data.

References

Bicycle weight and commuting time: randomised trial, in British Medical Journal, BMJ 2010;341:c6801.

BodyFat *Body Measurements*

Description

Percent fat and other body measurements for a sample of men

Format

A dataset with 100 observations on the following 10 variables.

Bodyfat	Percent body fat
Age	Age in years
Weight	Weight in pounds
Height	Height in inches
Neck	Neck circumference in cm.
Chest	Chest circumference in cm.
Abdomen	Abdomen circumference in cm.
Ankle	Ankle circumference in cm.
Biceps	Extended biceps circumference in cm.
Wrist	Wrist circumference in cm.

Details

This is a subset of a larger sample of men who each had a percent body fat estimated by an underwater weighing technique. Other measurements were taken to see how they might be used to predict the body fat percentage.

Source

These data were contributed by Roger Johnson, then at Carleton University, to the Datasets Archive at the Journal of Statistics Education.

<https://ww2.amstat.org/publications/jse/v4n1/datasets.johnson.html>

The data were originally supplied by Dr. A. Garth Fisher, Human Performance Research Center, Brigham Young University, Provo, Utah 84602.

BodyTemp50 *Body Temperatures*

Description

Sample of 50 body temperatures

Format

A data frame with 50 observations on the following 3 variables.

BodyTemp Body temperature in degrees F

Pulse Pulse rates (beat per minute)

Sex F=Female, M=Male

Details

Body temperatures and pulse rates for a sample of 50 healthy adults. Note the Sex variable was labeled as Gender in earlier versions of this dataset. We acknowledge that this binary dichotomization is not a complete or inclusive representation of reality.

Source

Shoemaker, "What's Normal: Temperature, Gender and Heartrate", Journal of Statistics Education, Vol. 4, No. 2 (1996)

<http://jse.amstat.org/v4n2/datasets.shoemaker.html>

BootAtlantaCorr *Bootstrap Correlations for Atlanta Commutes*

Description

Bootstrap correlations between Time and Distance for 500 commuters in Atlanta

Format

A dataset with 1000 observations on the following variable.

CorrTimeDist Correlation between Time and Distance for a bootstrap sample of Atlanta commuters

Details

Correlations for bootstrap samples of Time vs. Distance for the data on Atlanta commuters in CommuteAtlanta.

Source

Computer simulation

CaffeineTaps

Caffeine Taps

Description

Finger tap rates with and without caffeine

Format

A dataset with 20 observations on the following 2 variables.

Taps	Number of finger taps in one minute
Group	Treatment with levels Caffeine NoCaffeine

Details

Results from a double-blind experiment where a sample of male college students were asked to tap their fingers at a rapid rate. The sample was then divided at random into two groups of ten students each. Each student drank the equivalent of about two cups of coffee, which included about 200 mg of caffeine for the students in one group but was decaffeinated coffee for the second group. After a two hour period, each student was tested to measure finger tapping rate (taps per minute). The goal of the experiment was to determine whether caffeine produces an increase in the average tap rate.

Source

Hand, Daly, Lund, McConway and Ostrowski, Handbook of Small Data Sets, Chapman and Hall, London (1994), pp. 40

CAOSExam

CAOS Exam Scores

Description

Scores on a pre-test and post-test of basic statistics concepts

Format

A dataset with 10 observations on the following 3 variables.

Student	ID code for student
Pretest	CAOS Pretest score
Posttest	CAOS Posttest score

Details

The CAOS (Comprehensive Assessment of Outcomes in First Statistics Course) exam is designed to measure comprehension of basic statistical ideas in an introductory statistics course. This dataset has scores for ten students who took the CAOS pre-test at the start of a course and the post-test during the course itself. Each exam consists of 40 multiple choice questions and the score is the percentage correct.

Source

A sample of 10 students from an introductory statistics course. Find out more about the CAOS exam at <http://app.gen.umn.edu/artist/caos.html>

CarbonDioxide	<i>Carbon Dioxide Levels</i>
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Description

Atmospheric carbon dioxide levels by year

Format

A data frame with 12 observations on the following 2 variables.

Year Every five years from 1960 to 2015

C02 Carbon dioxide level in parts per million

Details

Carbon dioxide levels in the atmosphere over a 55 year span from 1960-2015.

** Updated for 3e (earlier version is now CarbonDioxide2e) **

Source

Dr. Pieter Tans, NOAA/ESRL. Values recorded at the Mauna Loa Observatory in Hawaii. www.esrl.noaa.gov/gmd/ccgg/trends/

CarDepreciation	<i>Car Depreciation</i>
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Description

Depreciation for 20 car models.

Format

A dataset with 20 observations on the following 4 variables.

Car	Name of the car model
New	Price of a new car
Used	Value after new car leaves the lot after purchase
Depreciation	Drop in value when a new car is driven away

Details

Twenty car models were selected at random from *kellybluebook.com*. Original price (in dollars) and value after the car has been driven 10 miles were recorded for each model. The depreciation is the difference (New-Used).

Source

New and used automobile costs determined using 2015 models selected from *kellybluebook.com*.

Cars2020	2020 Car Models
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Description

Information about new car models in 2020

Format

A data frame with 110 observations on the following 21 variables.

Make Manufacturer (e.g. Chevrolet, Toyota, etc.)

Model Car model (e.g. Impala, Highlander, ...)

Type Vehicle category (Hatchback, Minivan, Sedan, Sporty, SUV, or Wagon)

LowPrice Lowest MSRP (in \$1,000)

HighPrice Highest MSRP (in \$1,000)

CityMPG City miles per gallon (EPA)

HwyMPG Highway miles per gallon (EPA)

Seating Seating capacity

Drive Type of drive (AWD, FWD, or RWD)

Acc030 Time (in seconds) to go from 0 to 30 mph

Acc060 Time (in seconds) to go from 0 to 60 mph

QtrMile Time (in seconds) to go ¼ mile

Braking Distance to stop from 60 mph (dry pavement)

FuelCap Fuel capacity (in gallons)

Length Length (in inches)

Width Width (in inches)

Height Height (in inches)

Wheelbase Wheelbase (in inches)

UTurn Diameter (in feet) needed for a U-turn

Weight Curb weight (in pounds)

Size Large, Midsized, or Small

Details

Data for a set of 110 new car models in 2020 based on information in the Consumer Reports.

** Updated for 3e (an earlier version from 2015 is at Cars2015). **

Source

Data on new car models in 2020 accessed from Consumer Reports website. <https://www.consumerreports.org/cars/>

Cereal	<i>Breakfast Cereals</i>
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Description

Nutrition information for a sample of 30 breakfast cereals

Format

A dataset with 30 observations on the following 10 variables.

Name	Brand name of cereal
Company	Manufacturer coded as G=General Mills, K=Kellog's or Q=Quaker
Serving	Serving size (in cups)
Calories	Calories (per cup)
Fat	Fat (grams per cup)
Sodium	Sodium (mg per cup)
Carbs	Carbohydrates (grams per cup)
Fiber	Dietary Fiber (grams per cup)
Sugars	Sugars (grams per cup)
Protein	Protein (grams per cup)

Details

Nutrition contents for a sample of breakfast cereals, derived from nutrition labels. Values are per cup of cereal (rather than per serving).

Source

Cereal data obtained from nutrition labels at <http://www.nutritionresource.com/foodcomp2.cfm?id=0800>

CityTemps	<i>City Temperatures</i>
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Description

Mean monthly temperature in Moscow, Melbourne, and San Francisco for 2017 and 2018

Format

A data frame with 24 observations on the following 5 variables.

Year 2017 or 2018

Month 1=January through 12=December

Moscow Monthly temperatures in Moscow (Russia)

Melbourne Monthly temperatures in Melbourne (Australia)

San.Francisco Monthly temperatures in San Francisco (United States)

Details

Mean monthly temperatures in degrees C for the years 2017 and 2018 in each of three cities.

** Updated for 3e (an earlier version for 2014 and 2015 is at CityTemps2e). **

Source

Source: KNMI Climate Explorer at <https://climexp.knmi.nl/selectstation.cgi?id=someone@somewhere> Use station codes 94866 (Melbourne), 72494 (San Francisco), 27612 (Moscow).

CocaineTreatment	<i>Cocaine Treatment</i>
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Description

Relapse/no relapse responses to three different treatments for cocaine addiction

Format

A dataset with 72 observations on the following 2 variables.

Drug	Treatment drug: Desipramine, Lithium, or Placebo
Relapse	Did the patient relapse? no or yes

Details

Data from an experiment to investigate the effectiveness of the two drugs, desipramine and lithium, in the treatment of cocaine addiction. Subjects (cocaine addicts seeking treatment) were randomly assigned to take one of the treatment drugs or a placebo. The response variable is whether or not the subject relapsed (went back to using cocaine) after the treatment.

Source

Gawin, F., et.al., "Desipramine Facilitation of Initial Cocaine Abstinence", Archives of General Psychiatry, 1989; 46(2): 117 - 121.

ColaCalcium	<i>Cola Calcium</i>
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Description

Calcium excretion with diet cola and water

Format

A dataset with 16 observations on the following 2 variables.

Drink	Type of drink: Diet cola or Water
Calcium	Amount of calcium excreted (in mg.)

Details

A sample of 16 healthy women aged 18 - 40 were randomly assigned to drink 24 ounces of either diet cola or water. Their urine was collected for three hours after ingestion of the beverage and calcium excretion (in mg.) was measured. The researchers were investigating whether diet cola leaches calcium out of the system, which would increase the amount of calcium in the urine for diet cola drinkers.

Source

Larson, Amin, Olsen, and Poth, Effect of Diet Cola on Urine Calcium Excretion, *Endocrine Reviews*, 31[3]: S1070, June 2010. These data are recreated from the published summary statistics, and are estimates of the actual data.

 CollegeScores

College Scorecard

Description

Information on all US post-secondary schools collected by the Department of Education for the College Scorecard

Format

A data frame with 6141 observations on the following 37 variables.

Name Name of the school

State State where school is located

ID ID number for school

Main Main campus? (1=yes, 0=branch campus)

Accred Accreditation agency

MainDegree Predominant undergrad degree (0=not classified, 1=certificate, 2=associate, 3=bachelors, 4=only graduate)

HighDegree Highest degree (0=no degrees, 1=certificate, 2=associate, 3=bachelors, 4= graduate)

Control Control of school (Private, Profit, Public)

Region Region of country (Midwest, Northeast, Southeast, Territory, West)

Locale Locale (City, Rural, Suburb, Town)

Latitude Latitude

Longitude Longitude

AdmitRate Admission rate

MidACT Median of ACT scores
 AvgSAT Average combined SAT scores
 Online Only online (distance) programs
 Enrollment Undergraduate enrollment
 White Percent of undergraduates who report being white
 Black Percent of undergraduates who report being black
 Hispanic Percent of undergraduates who report being Hispanic
 Asian Percent of undergraduates who report being Asian
 Other Percent of undergraduates who don't report one of the above
 PartTime Percent of undergraduates who are part-time students
 NetPrice Average net price (cost minus aid)
 Cost Average total cost for tuition, room, board, etc.
 TuitionIn In-state tuition and fees
 TuitionOut Out-of-state tuition and fees
 TuitionFTE Net Tuition revenue per FTE student
 InstructFTE Instructional spending per FTE student
 FacSalary Average monthly salary for full-time faculty
 FullTimeFac Percent of faculty that are full-time
 Pell Percent of students receiving Pell grants
 CompRate Completion rate (percent who finish program within 150% of normal time)
 Debt Average debt for students who complete program
 Female Percent of female students
 FirstGen Percent of first-generation students
 MedIncome Median family income (in \$1,000)

Details

The US Department of Education maintains a database through its College Scorecard project of demographic information from all active postsecondary educational institutions that participate in Title IV. This dataset contains a small subsets of the variables in the full College Scorecard.

Source

Data downloaded from the US Department of Education's College Scorecard at <https://collegescorecard.ed.gov/data/> (November 2019)

CollegeScores2yr

*College Scorecard - Two Year***Description**

Information on all US colleges and universities that primarily grant associate's degrees, collected by the Department of Education for the College Scoreboard.

Format

A data frame with 1141 observations on the following 37 variables.

Name Name of the school

State State where school is located

ID ID number for school

Main Main campus? (1=yes, 0=branch campus)

Accred Accreditation agency

MainDegree Predominant undergrad degree (2=associate)

HighDegree Highest degree (0=no degrees, 1=certificate, 2=associate, 3=bachelors, 4= graduate)

Control Control of school (Private, Profit, Public)

Region Region of country (Midwest, Northeast, Southeast, Territory, West)

Locale Locale (City, Rural, Suburb, Town)

Latitude Latitude

Longitude Longitude

AdmitRate Admission rate

MidACT Median of ACT scores

AvgSAT Average combined SAT scores

Online Only online (distance) programs

Enrollment Undergraduate enrollment

White Percent of undergraduates who report being white

Black Percent of undergraduates who report being black

Hispanic Percent of undergraduates who report being Hispanic

Asian Percent of undergraduates who report being Asian

Other Percent of undergraduates who don't report one of the above

PartTime Percent of undergraduates who are part-time students

NetPrice Average net price (cost minus aid)

Cost Average total cost for tuition, room, board, etc.

TuitionIn In-state tuition and fees

TuitionOut Out-of-state tuition and fees

TuitionFTE Net Tuition revenue per FTE student

InstructFTE Instructional spending per FTE student

FacSalary Average monthly salary for full-time faculty

FullTimeFac Percent of faculty that are full-time
 Pell Percent of students receiving Pell grants
 CompRate Completion rate (percent who finish program within 150% of normal time)
 Debt Average debt for students who complete program
 Female Percent of female students
 FirstGen Percent of first-generation students
 MedIncome Median family income (in \$1,000)

Details

The US Department of Education maintains a database through its College Scorecard project of demographic information from all active postsecondary educational institutions that participate in Title IV. This dataset contains a small subset of the variables in the full College Scorecard and only the schools that primarily grant associate's degrees (MainDegree=2). The CollegeScores dataset contains these and other schools with other degree types.

Source

Data downloaded from the US Department of Education's College Scorecard at <https://collegescorecard.ed.gov/data/> (November 2019)

CollegeScores4yr *College Scorecard - Four Year*

Description

Information on all US colleges and universities that primarily grant bachelor's degrees, collected by the Department of Education for the College Scoreboard

Format

A data frame with 2012 observations on the following 37 variables.

Name Name of the school
 State State where school is located
 ID ID number for school
 Main Main campus? (1=yes, 0=branch campus)
 Accred Accreditation agency
 MainDegree Predominant undergrad degree (3=bachelors)
 HighDegree Highest degree (0=no degrees, 1=certificate, 2=associate, 3=bachelors, 4= graduate)
 Control Control of school (Private, Profit, Public)
 Region Region of country (Midwest, Northeast, Southeast, Territory, West)
 Locale Locale (City, Rural, Suburb, Town)
 Latitude Latitude
 Longitude Longitude
 AdmitRate Admission rate

MidACT Median of ACT scores
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 White Percent of undergraduates who report being white
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 Asian Percent of undergraduates who report being Asian
 Other Percent of undergraduates who don't report one of the above
 PartTime Percent of undergraduates who are part-time students
 NetPrice Average net price (cost minus aid)
 Cost Average total cost for tuition, room, board, etc.
 TuitionIn In-state tuition and fees
 TuitionOut Out-of-state tuition and fees
 TuitionFTE Net Tuition revenue per FTE student
 InstructFTE Instructional spending per FTE student
 FacSalary Average monthly salary for full-time faculty
 FullTimeFac Percent of faculty that are full-time
 Pell Percent of students receiving Pell grants
 CompRate Completion rate (percent who finish program within 150% of normal time)
 Debt Average debt for students who complete program
 Female Percent of female students
 FirstGen Percent of first-generation students
 MedIncome Median family income (in \$1,000)

Details

The US Department of Education maintains a database through its College Scorecard project of demographic information from all active postsecondary educational institutions that participate in Title IV. This dataset contains a small subset of the variables in the full College Scorecard and only the schools that primarily grant bachelor's degrees (MainDegree=3). The CollegeScores dataset contains these and other schools with other degree types.

Source

Data downloaded from the US Department of Education's College Scorecard at <https://collegescorecard.ed.gov/data/> (November 2019)

CommuteAtlanta

Commute Atlanta

Description

Commute times and distances for a sample of 500 people in Atlanta

Format

A data frame with 500 observations on the following 5 variables.

City	Atlanta
Age	Age of the respondent (in years)
Distance	Commute distance (in miles)
Time	Commute time (in minutes)
Sex	F or M

Details

Data from the US Census Bureau's American Housing Survey (AHS) which contains information about housing and living conditions for samples from certain metropolitan areas. These data were extracted from respondents in the Atlanta metropolitan area. They include only cases where the respondent worked somewhere other than home. Values show the time (in minutes) and distance (in miles) that respondents typically traveled on their commute to work each day as well as age and sex.

Source

Sample chosen using DataFerret at <http://www.thedataweb.org/index.html>.

CommuteStLouis	<i>Commute Times in St. Louis</i>
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Description

Commute times and distances for a sample of 500 people in St. Louis

Format

A dataset with 500 observations on the following 5 variables.

City	St. Louis
Age	Age of the respondent (in years)
Distance	Commute distance (in miles)
Time	Commute time (in minutes)
Sex	F or M

Details

Data from the US Census Bureau's American Housing Survey (AHS) which contains information about housing and living conditions for samples from certain metropolitan areas. These data were extracted from respondents in the St. Louis metropolitan area. They include only cases where the respondent worked somewhere other than home. Values show the time (in minutes) and distance (in miles) that respondents typically traveled on their commute to work each day as well as age and sex.

Source

Sample chosen using DataFerret at <http://www.thedataweb.org/index.html>.

CompassionateRats *Compassionate Rats*

Description

Would a rat attempt to free a trapped rat?

Format

A dataset with 30 observations on the following 2 variables.

Sex	Sex of the rat: coded as F or M
Empathy	Freed the trapped rat? no or yes

Details

In a recent study, some rats showed compassion by freeing another trapped rat, even when chocolate served as a distraction and even when the rats would then have to share the chocolate with their freed companion.

Source

Bartal I.B., Decety J., and Mason P., "Empathy and Pro-Social Behavior in Rats," *Science*, 2011; 224(6061):1427-1430.

CricketChirps *Cricket Chirps*

Description

Cricket chirp rate and temperature

Format

A dataset with 7 observations on the following 2 variables.

Temperature	Air temperature in degrees F
Chirps	Cricket chirp rate (chirps per minute)

Details

The data were collected by E.A. Bessey and C.A. Bessey who measured chirp rates for crickets and temperatures during the summer of 1898.

Source

From E.A Bessey and C.A Bessey, Further Notes on Thermometer Crickets, *American Naturalist*, (1898) 32, 263-264.

 DDS

Develomental Services

Description

Funding for individuals by the California Department of Developmental Services (DDS),

Format

A dataset with 1000 observations on the following 6 variables.

ID	ID code for subject
AgeCohort	Age group (0-5, 6-12, 13-17, 18-21, 22-50, 50+)
Age	Age in years
Expenditures	Annual expenditures in dollars
Ethnicity	Ethnic group

Details

The California Department of Developmental Services (DDS) allocates funds to support developmentally disabled California residents (such as those with autism, cerebral palsy, or intellectual disabilities) and their families. We refer to those supported by DDS as DDS consumers. The dataset DDS includes data on annual expenditure (in \$), ethnicity, age, and gender for 1000 DDS consumers.

Source

Taylor, S.A. and Mickel, A. E. (2014). "Simpson's Paradox: A Data Set and Discrimination Case Study Exercise," *Journal of Statistics Education*, 22(1). The dataset has been altered slightly for privacy reasons, but is based on actual DDS consumers.

 DecemberFlights

December Flights

Description

Difference between actual and scheduled arrival for United and Delta flights in December 2018.

Format

A data frame with 2000 observations on the following 2 variables.

Airline Delta or United

Difference Actual - Scheduled arrival times (in minutes)

Details

For a sample of 1000 December flights (in 2018) from each airline, we find the difference between actual and scheduled arrival times. A negative value indicates the flight arrived early.

** Updated for 3e (earlier version from 2014 is in DecemberFlights2e.)

Source

Downloaded from the Bureau of Transportation Statistics (<https://www.bts.gov/>). More specific URL is https://www.transtats.bts.gov/DL_SelectFields.asp?Table_ID=236&DB_Short_Name=0n-Time

DietDepression	<i>Diet and Depression</i>
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Description

Results from a study of a short-term diet intervention on depression.

Format

A data frame with 75 observations on the following 10 variables.

Group Control or Diet

CESD1 CESD depression score on Day 1

CESD21 CESD depression score on Day 21

CESDDiff Change in CESD depression score

DASS1 DASS depression score on Day 1

DASS21 DASS depression score on Day 21

DASSDiff Change in DASS depression score

BMI1 Body Mass Index on Day 1

BMI21 Body Mass Index on Day 21

BMIDiff Change in Body Mass Index

Details

A group of researchers in Australia conducted a short (three-week) dietary intervention in a randomized controlled experiment. In the study, 75 college-age students with elevated depression symptoms and relatively poor diet habits were randomly assigned to either a healthy diet intervention group or a control group. The researchers recorded the change over the three-week period on two different numeric scales of depression (the CESD scale and the DASS scale). The CESD (Centre for Epidemiological Studies Depression) score is based more on clinical observations, while the DASS (Depression, Anxiety, and Stress Scale) depends more on self-reported information. They also recorded body mass index (BMI) at the start and end of the 21 day period.

Source

Francis HM, et al., "A brief diet intervention can reduce symptoms of depression in young adults - A randomised controlled trial," PLoS ONE, 14(10), October 2019.

 Digits

Digit Counts

Description

Digits from social security numbers and student selected "random numbers"

Format

A dataset with 150 observations on the following 7 variables.

Random	Four digit random numbers given by a sample of students
RND1	First digit
RND2	Second digit
RND3	Third digit
RND4	Fourth digit
SSN8	Eighth digit of social security number
SSN9	Last digit of social security number

Details

A sample of students were asked to give a random four digit number. The numbers are given in the dataset, along with separate columns for each of the four digits. The data also show the last two digits of each student's social security number (SSN).

Source

In-class student surveys from several classes.

 DogOwner

Dog/Owner matches

Description

Experiment to match dogs with owners

Format

A dataset with 25 observations on the following variable.

Match	Was the dog correctly paired with it's owner? no or yes
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Details

Pictures were taken of 25 owners and their purebred dogs, selected from dog parks. Study participants were shown a picture of an owner together with pictures of two dogs (the owner's dog and another random dog from the study) and asked to choose which dog most resembled the owner.

Each dog-owner pair was viewed by 28 naive undergraduate judges, and the pairing was deemed "correct" (yes) if the majority of judges (more than 14) chose the correct dog to go with the owner.

** In first edition, but not as dataset in 2e **

Source

Roy and Christenfeld, Do Dogs Resemble their Owners?, Psychological Science, Vol. 15, No. 5, 2004, pp. 361 - 363.

DrugResistance	<i>Drug Resistance</i>
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Description

Effect on drug resistance by level of treatment in mice.

Format

A dataset with 72 observations on the following 5 variables.

Treatment	Untreated, Light, Moderate, or Aggressive
Weight	Mouse weight in grams
RBC	Red blood cell density
ResistantDensity	Density of resistant parasites
DaysInfectious	Days infectious with resistant parasites

Details

In an experiment to study drug resistance in mice, groups of 18 mice were injected with a mixture of drug-resistant and drug-susceptible malaria parasites. One group received no treatment while the others got limited, moderate, or aggressive amounts of anti-malarial treatment. The weight and red blood cell density reflect the initial health of the mice. Density of resistant parasites and number of days infectious measure the effectiveness of the treatment.

Source

Huijben S, Bell AS, Sim DG, Tomasello D, Mideo N, Day T, Read AF (2013) Aggressive chemotherapy and the selection of drug resistant pathogens. PLoS Pathogens 9(9): e1003578.

<http://dx.doi.org/10.1371/journal.ppat.1003578>

Huijben S, et al., (2013). Data from: Aggressive chemotherapy and the selection of drug resistant pathogens. Dryad Digital

Repository. <http://dx.doi.org/10.5061/dryad.09qc0>

EducationLiteracy	<i>Education and Literacy</i>
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Description

Education spending and literacy rates for countries.

Format

A data frame with 170 observations on the following 4 variables.

Country Name of country

Code Three-letter code for country

Education Education spending (as a percentage of GDP)

Literacy Literacy rate

Details

For each country, we have public spending on education (as a percentage of GDP) and literacy rate (percentage of the population who can read and write).

** Updated for 3e (an earlier version is at EducationLiteracy2e). **

Source

Most recent data (as of 2019) for each country obtained from worldbank.org.

ElectionMargin	<i>Election Margin</i>
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Description

Approval rating and election margin for recent presidential elections

Format

A dataset with 12 observations on the following 5 variables.

Year	Certain election years from 1940-2012
Candidate	Incumbent US president
Approval	Presidential approval rating at time of election
Margin	Margin of victory/defeat (as a percentage)
Result	Outcome of the election for the incumbent: Lost or Won

Details

Data include US Presidential elections since 1940 in which an incumbent was running for president. The approval rating for the sitting president is compared to the margin of victory/defeat in the election.

** Updated for 2e (original is now ElectionMargin1e) **

Source

Silver, Nate, "Approval Ratings and Re-Election Odds", *fivethirtyeight.com*, posted January 28, 2011 and <http://realclearpolitics.org>

EmployedACS	<i>Employed in American Community Survey</i>
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Description

Employed individuals from the American Community Survey (ACS) dataset

Format

A data frame with 1287 observations on the following 9 variables.

Sex 0=female and 1=male

Age Age (years)

Married 0=not married and 1=married

Income Wages and salary for the past 12 months (in \$1,000's)

HoursWk Hours of work per week

Race asian, black, other, white

USCitizen 1=citizen and 0=noncitizen

HealthInsurance 1=have health insurance and 0= no health insurance

Language 1=native English speaker and 0=other

Details

This is a subset of the ACS dataset including only 1287 individuals who were employed. (HoursWk>0)

** Updated for 3e (an earlier version is at EmployedACS2010). **

Source

The full public dataset can be downloaded at <http://www.census.gov/acs/www/datadocumentation/pumsdata/>, and the full list of variables is at <https://www.census.gov/programs-surveys/acs/data/pums.html>

ExerciseHours	<i>Exercise Hours</i>
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Description

Amount of exercise per week for students (and other variables)

Format

A data frame with 50 observations on the following 7 variables.

Year Year in school (1=First year,..., 4=Senior)

Sex F or M

Hand Left (l) or Right (r) handed?

Exercise Hours of exercise per week

TV Hours of TV viewing per week

Pulse Resting pulse rate (beats per minute)

Pierces Number of body piercings

Details

Data from an in-class survey of statistics students asking about amount of exercise, TV viewing, handedness, sex, pulse rate, and number of body piercings. Note the Sex variable was labeled as Gender in earlier versions of this dataset. We acknowledge that this binary dichotomization is not a complete or inclusive representation of reality.

Source

In-class student survey.

FacebookFriends

Facebook Friends

Description

Data on number of Facebook friends and grey matter density in brain regions related to social perception and associative memory.

Format

A dataset with 40 observations on the following 2 variables.

GMdensity Normalized z-scores of grey matter density in certain brain regions

FBfriends Number of friends on Facebook

Details

A recent study in Great Britain examines the relationship between the number of friends an individual has on Facebook and grey matter density in the areas of the brain associated with social perception and associative memory. The study included 40 students at City University London.

Source

Kanai, R., Bahrami, B., Roylance, R., and Rees, G., "Online social network size is reflected in human brain structure," *Proceedings of the Royal Society*, 7 April 2012; 279(1732): 1327-1334. Data approximated from information in the article.

 FireAnts

Fire Ants

Description

Reactions of lizards to the presence of fire ants.

Format

A dataset with 80 observations on the following 3 variables.

Invasion Coded as Uninvaded or Invaded, depending on if the lizard comes from a region with fire ants
 Twitches Number of twitches the lizard makes when encountering fire ants
 Flee Time for the lizard to flee in seconds (more than one minute is recorded as 61).

Details

The red imported fire ant, *Solenopsis invicta*, is native to South America, but has an expansive invasive range, including much of the southern United States (invasion of this ant is predicted to go global). In the United States, these ants occupy similar habitats as fence lizards. The ants eat the lizards and the lizards eat the ants, and in either scenario the venom from the fire ant can be fatal to the lizard. The study explored the question of whether lizards learn to adapt their behavior if their environment has been invaded by fire ants by taking lizards from an uninvaded habitat (eastern Arkansas) and lizards from an invaded habitat (southern Alabama, which has been invaded for more than 70 years), exposing them to fire ants, and measuring how long it takes each lizard to flee and the number of twitches each lizard does.

Source

Langkilde, T. (2009). "Invasive fire ants alter behavior and morphology of native lizards", *Ecology*, 90(1): 208-217. Thanks to Dr. Langkilde for providing the data.

 FisherIris

Fisher's Iris Data

Description

Measurements of three iris species

Format

A dataset with 150 observations on the following 5 variables.

Type	Species of iris, Setosa, Virginica, or Versicolor
PetalLength	Petal length in mm.
PetalWidth	Petal width in mm.
SepalLength	Sepal length in mm.
SepalWidth	Sepal width in mm.

Details

Data used in Fisher's 1936 paper, this famous dataset looks at measurements for samples of three different species of iris. The petal is part of the flower itself and the sepals are green leaves, directly under the petals, providing support.

Source

R. A. Fisher (1936). "The use of multiple measurements in taxonomic problems". *Annals of Eugenics* 7 (2): 179–188. doi:10.1111/j.1469-1809.1936.tb02137.x.

FishGills12

Fish Respiration and Calcium - Full Data

Description

An experiment to look at fish respiration rates in water with different levels of calcium.

Format

A dataset with 360 observations on the following 2 variables.

Calcium	Amount of calcium in the water (mg/L)
GillRate	Respiration rate (beats per minute)

Details

Fish were randomly assigned to twelve tanks with different levels (measured in mg/L) of calcium. Respiration rate was measured as number of gill beats per minute.

Source

Thanks to Prof. Brad Baldwin for supplying the data.

FishGills3

Fish Respiration and Calcium

Description

Respiration rate for fish in three levels of calcium.

Format

A dataset with 90 observations on the following 2 variables.

Calcium	Level of calcium Low 0.71 mg/L, Medium 5.24 mg/L, or High 18.24 mg/L
GillRate	Respiration rate (beats per minute)

Details

Fish were randomly assigned to three tanks with different levels (low, medium and high) of calcium. Respiration rate was measured as number of gill beats per minute.

Source

Thanks to Prof. Brad Baldwin for supplying the data.

 Flight433

Flight 433

Description

Flight times for Flight 433 (Boston-SF) in January 2019.

Format

A data frame with 28 observations on the following variable.

AirTime Airborne flying time (in minutes) for Flight 433, Boston to San Francisco

Details

United Airlines Flight 433 was a daily flight from Boston to San Francisco. The data show the airborne flying times for the flight on each day of January 2019.

Updated for 3e (earlier version from 2016 is in Flight433_2e)

Source

Data collected from the Bureau of Transportation Statistics website at <http://www.bts.gov/xml/ontimesummarystatistics/src/dstat/OntimeSummaryAirtime.xml>

 FloridaLakes

Florida Lakes

Description

Water quality measurements for a sample of lakes in Florida

Format

A dataset with 53 observations on the following 12 variables.

ID	An identifying number for each lake
Lake	Name of the lake
Alkalinity	Concentration of calcium carbonate (in mg/L)
pH	Acidity
Calcium	Amount of calcium in water
Chlorophyll	Amount of chlorophyll in water
AvgMercury	Average mercury level for a sample of fish (large mouth bass) from each lake

NumSamples	Number of fish sampled at each lake
MinMercury	Minimum mercury level in a sampled fish
MaxMercury	Maximum mercury level in a sampled fish
ThreeYrStdMercury	Adjusted mercury level to account for the age of the fish
AgeData	Mean age of fish in each sample

Details

This dataset describes characteristics of water and fish samples from 53 Florida lakes. Some variables (e.g. Alkalinity, pH, and Calcium) reflect the chemistry of the water samples. Mercury levels were recorded for a sample of large mouth bass selected at each lake.

Source

Lange, Royals, and Connor, Transactions of the American Fisheries Society (1993)

FootballBrain	<i>Football Brain Measurements</i>
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Description

Brain measurements for non-football players, football players with no concussion history, and football players with a concussion history.

Format

A dataset with 75 observations on the following 5 variables.

Group	Control=no football, FBNoConcuss=football player but no concussions, or FBConcuss=football player with concussion history
Hipp	Total hippocampus volume, in microL
LeftHipp	Left hippocampus volume, in microL
Years	Number of years playing football
Cognition	Cognitive testing composite reaction time score, given as a percentile

Details

The study included 3 groups, with 25 cases in each group. The control group consisted of healthy individuals with no history of brain trauma who were comparable to the other groups in age, sex, and education. The second group consisted of NCAA Division 1 college football players with no history of concussion, while the third group consisted of NCAA Division 1 college football players with a history of concussion. High resolution MRI was used to collect brain hippocampus volume. Data were collected between June 2011 and August 2013. The data values given here are estimated from information given in the paper.

Source

Singh R, Meier T, Kuplicki R, Savitz J, et al., "Relationship of Collegiate Football Experience and Concussion With Hippocampal Volume and Cognitive Outcome," JAMA, 311(18), 2014

ForestFires

Forest Fires

Description

Characteristics of forest fires in Montesinho park (Portugal)

Format

A data frame with 517 observations on the following 13 variables.

X West to east coordinates for the site (1=farthest west to 9= farthest east)

Y North to south coordinates for the site (1=farthest north to 9=farthest south)

Month Month of the year (jan to dec)

Day Day of the week (sun to sat)

FFMC Fine fuel moisture code

DMC Duff moisture code

DC Drought code

ISI Initial spread index

Temp Outside temperature (in celsius)

RH Relative humidity (in %)

Wind Wind speed (in km/h)

Rain Rain in past 30 minutes (in mm/sq-m)

Area Total burned area (in hectares)

Details

Data were recorded for fires in the Montesinho natural park in Portugal between January 2000 and December 2003. A map of the park (see the pdf linked below) is divided into 9x9 grid sections (given by the x,y-coordinates in the first two columns of the dataset). There are four components of a Fire Weather Index that rate how weather conditions might increase fire danger. FFMC, DMC, and DC reflect various measures of moisture content, while the ISI score indicated how fast a fire might spread (for example, by wind). For all four measures larger values are associated with more fire danger. Fires that are less than 100 square meters in size (0.01 hectares) are recorded as Area=0.

Source

Data downloaded from the UCI Machine Learning Repository, <https://archive.ics.uci.edu/ml/datasets/Forest+Fires>

Original article: P. Cortez and A. Morais. "A Data Mining Approach to Predict Forest Fires using Meteorological Data", in New Trends in Artificial Intelligence, Proceedings of the 13th EPIA 2007 - Portuguese Conference on Artificial Intelligence (December 2007) <http://www.dsi.uminho.pt/~pcortez/fires.pdf>

GeneticDiversity *Genetic Diversity*

Description

Genetic diversity for different populations are compared to the distance from East Africa.

Format

A dataset with 52 observations on the following 5 variables.

Population	Identifier for each population
Country	Main country where the population is found
Continent	Continent where the population is found
GeneticDiversity	A measure of genetic diversity in the population
Distance	Distance by land to East Africa (in km)

Details

The data give a measure of genetic diversity for different populations and the geographic distance of each population from East Africa (Addis Ababa, Ethiopia), as one would travel over the surface of the earth by land (migration long ago is thought to have happened by land).

Source

Calculated using data from S Ramachandran, O Deshpande, CC Roseman, NA Rosenberg, MW Feldman, LL Cavalli-Sforza. "Support from the relationship of genetic and geographic distance in human populations for a serial founder effect originating in Africa," Proceedings of the National Academy of Sciences, 2005, 102: 15942-15947.

GlobalInternet2019 *Global Internet Usage*

Description

Internet usage for several countries

Format

A data frame with 9 observations on the following 3 variables.

Country	Name of country
InternetSpeed	Average download speed (in Mb)
HoursOnline	Average hours online per day

Details

The Worldwide Broadband Speed League tests internet speeds at millions of access points around the world. The average download speed for each country is derived from those data. The DataReportal site provides summaries of country level data on internet usage obtained from various sources. The average number of hours spent online for each country is based on survey data reported at that site.

** Updated for 3e (earlier version from 2011 is at GlobalInternet2011).

Source

Internet speeds for 2019 downloaded from <https://www.cable.co.uk/broadband/speed/worldwide-speed-league>
 Online hours for 2019 downloaded from <https://datareportal.com/library>

 GolfRound

Golf Round

Description

Scorecard for 18 holes of golf

Format

A data frame with 18 observations on the following 4 variables.

Hole Hole number (1 to 18)

Distance Length of the hole (in yards)

Par Par for the hole

Score Actual number of strokes needed in this round

Details

Data come from a scorecard for one round of golf at the Potsdam Country Club. Par is the expected number of strokes a good golfer should need to complete the hole.

Source

Personal file

 GPAbySex

GPA by Sex

Description

Data from a survey of introductory statistics students.

Format

A dataset with 343 observations on the following 6 variables.

Exercise	Hours of exercise (per week)
SAT	Combined SAT scores (out of 1600)
GPA	Grade Point Average (0.00-4.00 scale)
Pulse	Pulse rate (beats per minute)
Piercings	Number of body piercings
CodedSex	0=female or 1=male

Details

This is a subset of the StudentSurvey dataset where cases with missing values have been dropped and sex is coded as a 0/1 indicator variable.

Source

A first day survey over several different introductory statistics classes.

GSWarriors2019

Golden State Warriors Basketball (2019)

Description

Game log data for the Golden State Warriors basketball team in 2018-2019

Format

A data frame with 82 observations on the following 33 variables.

Game ID number for each game

Date Date the game was played (mm/dd/yyyy)

Location Away or Home

Opp Opponent team

Win Game result: L or W

Points Number of points scored

FG Field goals made

FGA Field goals attempted

FG3 Three-point field goals made

FG3A Three-point field goals attempted

FT Free throws made

FTA Free throws attempted

Rebounds Total rebounds

OffReb Offensive rebounds

Assists Number of assists

Steals Number of steals

Blocks Number of shots blocked

Turnovers Number of turnovers

Fouls Number of fouls
 OppPoints Opponent's points scored
 OppFG Opponent's field goals made
 OppFGA Opponent's field goals attempted
 OppFG3 Opponent's three-point field goals made
 OppFG3A Opponent's three-point field goals attempted
 OppFT Opponent's free throws made
 OppFTA Opponent's free throws attempted
 OppRebounds Opponent's total rebounds
 OppOffReb Opponent's offensive rebounds
 OppAssists Opponent's assists
 OppSteals Opponent's steals
 OppBlocks Opponent's shots blocked
 OppTurnovers Opponent's turnovers
 OppFouls Opponent's fouls

Details

Information from online boxscores for all 82 regular season games played by the Golden State Warriors basketball team during the 2018-2019 season.

** Updated for third edition (2e version is now GSWarriors2016, 1e version is MiamiHeat dataset)
 **

Source

Data for the 2018-2019 Golden State games downloaded from <http://www.basketball-reference.com/teams/GSW/2019/gamelog/>

HappyPlanetIndex *Happy Planet Index*

Description

Measurements related to happiness and well-being for 143 countries.

Format

A dataset with 143 observations on the following 11 variables.

Country	Name of country
Region	1=Latin America, 2=Western nations, 3=Middle East, 4=Sub-Saharan Africa, 5=South Asia, 6=East Asia, 7=former Communist countries
Happiness	Score on a 0-10 scale for average level of happiness (10 is happiest)
LifeExpectancy	Average life expectancy (in years)
Footprint	Ecological footprint - a measure of the (per capita) ecological impact
HLY	Happy Life Years - combines life expectancy with well-being
HPI	Happy Planet Index (0-100 scale)

HPIRank	HPI rank for the country
GDPperCapita	Gross Domestic Product (per capita)
HDI	Human Development Index
Population	Population (in millions)

Details

Data for 143 countries from the Happy Planet Index Project that works to quantify indicators of happiness, well-being, and ecological footprint at a country level.

Source

Marks, N., "The Happy Planet Index", www.TED.com/talks, August 29, 2010.
Data downloaded from <http://www.happyplanetindex.org/data/>

HeatCognition

Heat and Cognition

Description

Effect of heat on cognitive ability

Format

A data frame with 46 observations on the following 3 variables.

AC Whether the student had air conditioning on in the room, No or Yes

MathZRT Z-score of reaction time solving math problems

ColorsZRT Z-score of reaction time solving STROOP color problems

Details

Forty-six college students were asked to solve cognitive problems first thing in the morning during a heat wave in their Northeastern city. Twenty of the students had air-conditioning in their rooms and twenty-six did not. Z-scores of reaction times are given for math problems and for color dissonance problems.

Source

Cedeo Laurent JG, Williams A, Oulhote Y, Zanobetti A, Allen JG, Spengler JD "Reduced cognitive function during a heat wave among residents of non-air-conditioned buildings: An observational study of young adults in the summer of 2016." *PLoS Med* 15(7): e1002605, July 10, 2018. <https://doi.org/10.1371/journal.pmed.1002605>. (Dataset is simplified from the repeated measures design used in the original study.)

HeightData *Height Data*

Description

Heights measured for the same 94 children over 18 years.

Format

A dataset with 94 observations on the following 33 variables.

ID	Identification number)
Sex	M or F
Year_1	Height (in cm.) at age 1 year
Year_1.25	Height (in cm.) at age 1.25 years
Year_1.5	Height (in cm.) at age 1.5 years
Year_1.75	Height (in cm.) at age 1.75 years
Year_2	Height (in cm.) at age 2 years
Year_3	Height (in cm.) at age 3 years
Year_4	Height (in cm.) at age 4 years
Year_5	Height (in cm.) at age 5 years
	See below for full list of years...
Year_17.5	Height (in cm.) at age 17.5 years
Year_18	Height (in cm.) at age 18 years

Details

In the 1940's and 1950's, the heights of 39 boys and 54 girls, in centimeters, were measured at 30 different time points between the ages of 1 and 18 years as part of the University of California Berkeley growth study. Ages for measurement are 1, 1.25, 1.5, 1.75, 2, 3, 4, 5, 6, 7, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15, 15.5, 16, 16.5, 17, 17.5, 18.

Source

Tuddenham, R. D., and Snyder, M. M. (1954) "Physical growth of California boys and girls from birth to age 18", University of California Publications in Child Development, 1, 183-364.

HockeyPenalties2019 *Hockey Penalties (2019)*

Description

Penalty minutes (per game) for NHL teams in 2018-2019

Format

A data frame with 30 observations on the following 4 variables.

Team Name of the team

PIM Average penalty minutes per game
 OppPIM Average opponent's penalty minutes per game
 Playoff Did the team make the playoffs? (N or Y)

Details

Data give the average number of penalty minutes for each of the 30 National Hockey League (NHL) teams (and their opponents) during the 2018-2019 regular season.
 ** Updated for 3e (earlier version from 2010-11 is at HockeyPenalties2011). **

Source

Data obtained online at https://www.hockey-reference.com/leagues/NHL_2019.html#all_stats

HollywoodMovies	<i>Hollywood Movies</i>
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Description

Data on movies released in Hollywood between 2012 and 2018

Format

A data frame with 1295 observations on the following 15 variables.

Movie Title of the movie
 LeadStudio Primary U.S. distributor of the movie
 RottenTomatoes Rotten Tomatoes rating (critics)
 AudienceScore Audience rating (via Rotten Tomatoes)
 Genre One of Action Adventure, Black Comedy, Comedy, Concert, Documentary, Drama, Horror, Musical, Romantic Comedy, Thriller, or Western
 TheatersOpenWeek Number of screens for opening weekend
 OpeningWeekend Opening weekend gross (in millions)
 BOAvgOpenWeekend Average box office income per theater, opening weekend
 Budget Production budget (in millions)
 DomesticGross Gross income for domestic (U.S.) viewers (in millions)
 WorldGross Gross income for all viewers (in millions)
 ForeignGross Gross income for foreign viewers (in millions)
 Profitability WorldGross as a percentage of Budget
 OpenProfit Percentage of budget recovered on opening weekend
 Year Year the movie was released

Details

Information from 1295 movies released from Hollywood between 2012 and 2018.
 ** Updated for 3e (earlier versions are HollywoodMovies2013 and HollywoodMovies2011). **

Source

Movie data obtained from
<https://www.boxofficemojo.com/>
<https://www.the-numbers.com/>
<https://www.rottentomatoes.com/>

HomesForSale

Homes For Sale (2019)

Description

Data on homes for sale in four states in 2019

Format

A data frame with 120 observations on the following 5 variables.

State Location of the home (CA, NJ, NY, or PA)

Price Asking price (in \$1,000's)

Size Area of all rooms (in 1,000's sq. ft.)

Beds Number of bedrooms

Baths Number of bathrooms

Details

Data for samples of homes for sale in each state, selected from *zillow.com*.

** Updated for 3e (earlier version from 2010 is in HomesForSale2e). **

Source

Data collected from www.zillow.com in 2019.

HomesForSaleCA

Homes For Sale in California (2019)

Description

Data for a sample of homes offered for sale in California

Format

A data frame with 30 observations on the following 5 variables.

State Location of the home (CA)

Price Asking price (in \$1,000's)

Size Area of all rooms (in 1,000's sq. ft.)

Beds Number of bedrooms

Baths Number of bathrooms

Details

Data for a sample of homes for sale in California, selected from *zillow.com*. This is a subset of the HomesForSale dataset.

** Updated for 3e (earlier version from 2010 is in HomesForSaleCA2e). **

Source

Data collected from www.zillow.com in 2019.

HomesForSaleCanton *Homes For Sale in Canton, NY (2019)*

Description

Data for a sample of homes offered for sale in Canton, NY

Format

A data frame with 30 observations on the following 4 variables.

Price Asking price (in \$1,000's)

Size Area of all rooms (in 1,000's sq. ft.)

Beds Number of bedrooms

Baths Number of bathrooms

Details

Data for a sample of homes for sale in Canton, NY, selected from *zillow.com*.

** Updated for 3e (earlier version from 2010 is in HomesForSaleCanton2e). **

Source

Data collected from www.zillow.com in 2019.

HomesForSaleNY *Homes For Sale in New York (2019)*

Description

Data for a sample of homes offered for sale in New York (state)

Format

A data frame with 30 observations on the following 5 variables.

State Location of the home (NY)

Price Asking price (in \$1,000's)

Size Area of all rooms (in 1,000's sq. ft.)

Beds Number of bedrooms

Baths Number of bathrooms

Details

Data for a sample of homes for sale in New York, selected from *zillow.com*. This is a subset of the HomesForSale dataset.

** Updated for 3e (earlier version from 2010 is in HomesForSaleNY2e). **

Source

Data collected from www.zillow.com in 2019.

HomingPigeons	<i>Homing Pigeons</i>
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Description

Results from the 2019 Midwest Classic Homing Pigeon race

Format

A data frame with 1412 observations on the following 5 variables.

Position Finishing position in the race

Loft Name of the pigeon's home loft

Sex C=cock (male) or H=hen (female)

Distance Distance (in miles) from release point to home loft

Speed Speed (in yards per minute)

Details

Finishing results from 1412 pigeons completing the 2019 Midwest Classic race for homing pigeons on June 30, 2019. Each loft may enter multiple pigeons.

Source

Final race report from the Midwest Homing Pigeon Association, downloaded from <http://www.midwesthpa.com/MIDFinalReports.htm>

Honeybee	<i>Honeybee Colonies</i>
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Description

Number of honeybee colonies (1995-2012)

Format

A dataset with 18 observations on the following 2 variables.

Year	Year
Colonies	Estimated number of honeybee colonies in the US (in thousands)

Details

Data collected from the USDA on the estimated number of honeybee colonies in the US for the years 1995 through 2012.

Source

USDA National Agriculture and Statistical Services,
<http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documentID=1191> Accessed September 2015.

HoneybeeCircuits	<i>Honeybee Circuits</i>
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Description

Number of circuits for honeybee dances and nest quality

Format

A dataset with 78 observations on the following 2 variables.

Circuits	Number of waggle dance circuits for a returning scout bee
Quality	Quality of the nest site: High or Low

Details

When honeybees are looking for a new home, they send out scouts to explore options. When a scout returns, she does a "waggle dance" with multiple circuit repetitions to tell the swarm about the option she found. The bees then decide between the options and pick the best one. Scientists wanted to find out how honeybees decide which is the best option, so they took a swarm of honeybees to an island with only two possible options for new homes: one of very high honeybee quality and one of low quality. They then kept track of the scouts who visited each option and counted the number of waggle dance circuits each scout bee did when describing the option.

Source

Seeley, T., *Honeybee Democracy*, Princeton University Press, Princeton, NJ, 2010, p. 128

HoneybeeWaggle	<i>Honeybee Waggle</i>
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Description

Honeybee dance duration and distance to nesting site

Format

A dataset with 7 observations on the following 2 variables.

Distance Distance to the potential nest site (in meters)
 Duration Duration of the waggle dance (in seconds)

Details

When honeybee scouts find a food source or a nice site for a new home, they communicate the location to the rest of the swarm by doing a "waggle dance." They point in the direction of the site and dance longer for sites farther away. The rest of the bees use the duration of the dance to predict distance to the site.

Source

Seeley, T., Honeybee Democracy, Princeton University Press, Princeton, NJ, 2010, p. 128

HotDogs2019

Hot Dog Eating Contest

Description

Winning number of hot dogs consumed in an eating contest (2002-2019)

Format

A data frame with 18 observations on the following 2 variables.

Year Year of the contest: 2002 to 2019

HotDogs Winning number of hot dogs consumed

Details

Every Fourth of July, Nathan's Famous in New York City holds a hot dog eating contest, in which contestants try to eat as many hot dogs (with buns) as possible in ten minutes. The winning number of hot dogs are given for each year from 2002-2019.

** Data set updated for 3e (earlier versions are HotDogs2015 and HotDogs1e) **

Source

Downloaded from https://en.wikipedia.org/wiki/Nathan's_Hot_Dog_Eating_Contest

HouseStarts2018 *Housing Starts (2000-2018)*

Description

Quarterly housing starts in the United States from 2000-2018

Format

A data frame with 76 observations on the following 3 variables.

Year Year (2000 to 2018)

Quarter Q1=Jan-Mar, Q2=Apr-June, Q3=July-Sept, Q4=Oct-Dec

Houses New US residential house construction starts (in thousands)

Details

Number of new homes started in the US for each quarter from 2000-2018.
Updated for 3e (earlier version is in HouseStarts2015)

Source

Census.gov website <https://www.census.gov/econ/currentdata/>
<https://www.census.gov/econ/currentdata/dbsearch?program=RESCONST&startYear=2000&endYear=2018&categories=STARTS&dataType=SINGLE&geoLevel=US¬Adjusted=1&submit=GET+DATA&releaseScheduleId=>

HumanTears25 *Human Tears -Sadness and Sexual Arousal*

Description

Differences in sadness and sexual arousal ratings for 25 men sniffing female tears or a placebo in a matched pairs experiment.

Format

A data frame with 25 observations on the following 2 variables.

SexDiff Difference in sexual arousal rating (placebo rating - tears rating)

SadDiff Difference in sadness rating (placebo rating - tears rating)

Details

Twenty-five men had a pad attached to their upper lip that contained either female tears collected from women who watched a sad film or a salt solution (as a placebo) that had been trickled down the same women's faces. The data were collected following a double-blind matched pairs design, where the order was randomized. The men were shown pictures of female faces and asked "To what extent is this face sad?" or "To what extent is this face sexually arousing?" Men's answers were input using a Visual Analog Scale, which were then converted to a scale with results between about 200 and 800. The data show the difference in rating (placebo rating minus sadness rating) for each man for the sad question (SadDiff) or the sexual arousal question (SexDiff). Data are approximated from information given in the article.

Source

Gelstein, S, et al., "Human Tears Contain a Chemosignal," Science, 331(6014), 226-230, January 14, 2011.

HumanTears50

Human Tears - Testosterone

Description

Differences in testosterone levels for 50 men in a matched pairs experiment, where the differences are between sniffing female tears and sniffing a placebo

Format

A data frame with 50 observations on the following 3 variables.

Placebo Testosterone level after sniffing a placebo

Tears Testosterone level after sniffing female tears

Difference Difference in testosterone level (Placebo - Tears)

Details

Fifty men had a pad attached to their upper lip that contained either female tears collected from women who watched a sad film or a salt solution (as a placebo) that had been trickled down the same women's faces. The data were collected following a double-blind matched pairs design, where the order was randomized and the data were collected on consecutive days. After sniffing each substance (placebo or tears), men had their salivary testosterone levels measured, in pg/ml. Data are approximated from information given in the article.

Source

Gelstein, S, et al., "Human Tears Contain a Chemosignal," Science, 331(6014), 226-230, January 14, 2011.

Hurricanes2018 *Hurricanes (1914 to 2018)*

Description

Hurricanes in the North Atlantic each year (1914-2018)

Format

A data frame with 105 observations on the following 2 variables.

Year Year (1914 to 2018)

Hurricanes Number of North Atlantic hurricanes

Details

Number of North Atlantic hurricanes - yearly 1914-2018.

** Updated for 3e (ealier version through 2014 is in Hurricanes2014). **

Source

Weather Underground website at <https://www.wunderground.com/hurricane/hurrarchive.asp>

ICUAdmissions *Intensive Care Unit Admissions*

Description

Data from patients admitted to an intensive care unit

Format

A dataset with 200 observations on the following 21 variables.

ID	Patient ID number
Status	Patient status: 0=lived or 1=died
Age	Patient's age (in years)
Sex	0=male or 1=female
Race	Patient's race: 1=white, 2=black, or 3=other
Service	Type of service: 0=medical or 1=surgical
Cancer	Is cancer involved? 0=no or 1=yes
Renal	Is chronic renal failure involved? 0=no or 1=yes
Infection	Is infection involved? 0=no or 1=yes
CPR	Patient gets CPR prior to admission? 0=no or 1=yes
Systolic	Systolic blood pressure (in mm of Hg)
HeartRate	Pulse rate (beats per minute)
Previous	Previous admission to ICU wihtin 6 months? 0=no or 1=yes
Type	Admission type: 0=elective or 1=emergency
Fracture	Fractured bone involved? 0=no or 1=yes

P02	Partial oxygen level from blood gases under 60? 0=no or 1=yes
PH	pH from blood gas under 7.25? 0=no or 1=yes
PC02	Partial carbon dioxide level from blood gas over 45? 0=no or 1=yes
Bicarbonate	Bicarbonate from blood gas under 18? 0=no or 1=yes
Creatinine	Creatinine from blood gas over 2.0? 0=no or 1=yes
Consciousness	Level: 0=conscious, 1=deep stupor, or 2=coma

Details

Data from a sample of 200 patients following admission to an adult intensive care unit (ICU).

Source

DASL dataset downloaded from <http://lib.stat.cmu.edu/DASL/Datafiles/ICU.html>

ImmuneTea	<i>Immune Tea</i>
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Description

Interferon gamma production and tea drinking

Format

A dataset with 21 observations on the following 2 variables.

InterferonGamma	Measure of interferon gamma production
Drink	Type of drink: Coffee or Tea

Details

Eleven healthy non-tea-drinking individuals were asked to drink five or six cups of tea a day, while ten healthy non-tea and non-coffee-drinkers were asked to drink the same amount of coffee, which has caffeine but not the L-theanine that is in tea. The groups were randomly assigned. After two weeks, blood samples were exposed to an antigen and production of interferon gamma was measured.

Source

Adapted from Kamath, et.al., "Antigens in tea-Beverage prime human V 2V2 T cells in vitro and in vivo for memory and non-memory antibacterial cytokine responses", Proceedings of the National Academy of Sciences, May 13, 2003.

InkjetPrinters	<i>Inkjet Printers</i>
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Description

Data from online reviews of inkjet printers

Format

A dataset with 20 observations on the following 6 variables.

Model	Model name of printer
PPM	Printing rate (pages per minute) for a benchmark set of print jobs
PhotoTime	Time (in seconds) to print 4x6 color photos
Price	Typical retail price (in dollars)
CostBW	Cost per page (in cents) for printing in black & white
CostColor	Cost per page (in cents) for printing in color

Details

Information from reviews of inkjet printers at PCMag.com in August 2011.

Source

Inkjet printer reviews found at <http://www.pcmag.com/reviews/printers>, August 2011.

LifeExpectancyVehicles

Life Expectancy and Vehicle Registrations (2017)

Description

Yearly US life expectancy and number of registered vehicles (1970-2017)

Format

A data frame with 48 observations on the following 3 variables.

Year Year (1970 to 2017)

LifeExpectancy Average life expectancy (in years) for babies born in the year

Vehicles Number of motor vehicles registered in the US (in millions)

Details

Life expectancy (in years for babies born each year) and number of vehicles registered in the US for each year from 1970 to 2017.

** Updated for 3e (earlier versions are LifeExpectancyVehicles2e and LifeExpectancyVehicles1e)
**

Source

Vehicle registrations from the Federal Highway Administration, <https://www.fhwa.dot.gov/policyinformation/statistics.cfm>.

Lifetime data from the Centers for Disease Control and Prevention, National Center for Health Statistics, Health Data Interactive, www.cdc.gov/nchs/hdi.htm.

 LightatNight

Light at Night for Mice

Description

Data on body mass gain from an experiment with mice having different nighttime light conditions

Format

A dataset with 18 observations on the following 2 variables.

Group	Light=dim light at night or Dark=dark at night
BMGain	Body mass gain (in grams over a three week period)

Details

In this study, 18 mice were randomly split into two groups. One group was on a normal light/dark cycle (Dark) and the other group had light during the day and dim light at night (Light). The dim light was equivalent to having a television set on in a room. The mice in darkness ate most of their food during their active (nighttime) period, matching the behavior of mice in the wild. The mice with dim light at night, however, consumed much of their food during the well-lit rest period, when most mice are usually sleeping. The change in body mass was recorded after three weeks.

** See also LightatNight4Weeks or LightatNight8Weeks for more variables measured at other points in the same experiment, with a third experimental condition which had 9 additional mice with a bright light on all the time. **

Source

Fonken, L., et. al., "Light at night increases body mass by shifting time of food intake," Proceedings of the National Academy of Sciences, October 26, 2010; 107(43): 18664-18669.

 LightatNight4Weeks

Light at Night for Mice - After 4 Weeks

Description

Data from an experiment with mice having different nighttime light conditions

Format

A dataset with 27 observations on the following 9 variables.

Light	DM=dim light at night, LD=dark at night, or LL=bright light at night
BMGain	Body mass gain (in grams over a four week period)
Corticosterone	Blood corticosterone level (a measure of stress)
DayPct	Percent of calories eaten during the day
Consumption	Daily food consumption (grams)
GlucoseInt	Glucose intolerant? No or Yes

GTT15	Glucose level in the blood 15 minutes after a glucose injection
GTT120	Glucose level in the blood 120 minutes after a glucose injection
Activity	A measure of physical activity level

Details

In this study, 27 mice were randomly split into three groups. One group was on a normal light/dark cycle (LD), one group had bright light on all the time (LL), and one group had light during the day and dim light at night (DM). The dim light was equivalent to having a television set on in a room. The mice in darkness ate most of their food during their active (nighttime) period, matching the behavior of mice in the wild. The mice in both dim light and bright light, however, consumed more than half of their food during the well-lit rest period, when most mice are sleeping. Values in this dataset are recorded after four weeks in the experimental condition.

** This dataset was named LightatNight in the first edition **

** See also LightatNight8Weeks for the same data after 8 weeks or LightatNight with just BMGain after 3 weeks for the DM and LD groups. **

Source

Fonken, L., et. al., "Light at night increases body mass by shifting time of food intake," Proceedings of the National Academy of Sciences, October 26, 2010; 107(43): 18664-18669.

LightatNight8Weeks	<i>Light at Night for Mice - After 8 Weeks</i>
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Description

Data from an experiment with mice having different nighttime light conditions

Format

A dataset with 27 observations on the following 9 variables.

Light	DM=dim light at night, LD=dark at night, or LL=bright light at night
BMGain	Body mass gain (in grams over an eight week period)
Corticosterone	Blood corticosterone level (a measure of stress)
DayPct	Percent of calories eaten during the day
Consumption	Daily food consumption (grams)
GlucoseInt	Glucose intolerant? No or Yes
GTT15	Glucose level in the blood 15 minutes after a glucose injection
GTT120	Glucose level in the blood 120 minutes after a glucose injection
Activity	A measure of physical activity level

Details

In this study, 27 mice were randomly split into three groups. One group was on a normal light/dark cycle (LD), one group had bright light on all the time (LL), and one group had light during the day and dim light at night (DM). The dim light was equivalent to having a television set on in a room. The mice in darkness ate most of their food during their active (nighttime) period, matching the

behavior of mice in the wild. The mice in both dim light and bright light, however, consumed more than half of their food during the well-lit rest period, when most mice are sleeping. Values in this dataset are recorded after eight weeks in the experimental condition.

** See also LightatNight4Weeks for the same data after 4 weeks or LightatNight with just BMGain after 3 weeks for just the DM and LD groups. **

Source

Fonken, L., et. al., "Light at night increases body mass by shifting time of food intake," Proceedings of the National Academy of Sciences, October 26, 2010; 107(43): 18664-18669.

MalevolentUniformsNFL *Malevolent Uniforms NFL*

Description

Perceived malevolence of uniforms and penalties for National Football League (NFL) teams

Format

A dataset with 28 observations on the following 3 variables.

NFLTeam	Team name
NFL_Malevolence	Score reflecting the "malevolence" of a team's uniform
ZPenYds	Z-score for penalty yards

Details

Participants with no knowledge of the teams rated the jerseys on characteristics such as timid/aggressive, nice/mean and good/bad. The averages of these responses produced a "malevolence" index with higher scores signifying impressions of more malevolent uniforms. To measure aggressiveness, the authors used the amount of penalty yards converted to z-scores and averaged for each team over the seasons from 1970-1986.

Source

Frank and Gilovich, "The Dark Side of Self- and Social Perception: Black Uniforms and Aggression in Professional Sports", Journal of Personality and Social Psychology, Vol. 54, No. 1, 1988, p. 74-85.

MalevolentUniformsNHL *Malevolent Uniforms NHL*

Description

Perceived malevolence of uniforms and penalties for National Hockey League (NHL) teams

Format

A dataset with 28 observations on the following 3 variables.

NHLTeam	Team name
NHL_Malevolence	Score reflecting the "malevolence" of a team's uniform
ZPenMin	Z-score for penalty minutes

Details

Participants with no knowledge of the teams rated the jerseys on characteristics such as timid/aggressive, nice/mean and good/bad. The averages of these responses produced a "malevolence" index with higher scores signifying impressions of more malevolent uniforms. To measure aggressiveness, the authors used the amount of penalty minutes converted to z-scores and averaged for each team over the seasons from 1970-1986.

Source

Frank and Gilovich, "The Dark Side of Self- and Social Perception: Black Uniforms and Aggression in Professional Sports", *Journal of Personality and Social Psychology*, Vol. 54, No. 1, 1988, p. 74-85.

MammalLongevity	<i>Mammal Longevity</i>
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Description

Longevity and gestation period for mammals

Format

A dataset with 40 observations on the following 3 variables.

Animal	Species of mammal
Gestation	Time from fertilization until birth (in days)
Longevity	Average lifespan (in years)

Details

Dataset with average lifespan (in years) and typical gestation period (in days) for 40 different species of mammals.

Source

2010 World Almanac, pg. 292.

ManhattanApartments	<i>Manhattan Apartment Prices (2019)</i>
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Description

Apartment prices for sale in Manhattan in 2019

Format

A data frame with 20 observations on the following variable.

Rent Monthly rent (in dollars)

Details

Monthly rents for a sample of 20 one-bedroom apartments in Manhattan, NY that were advertised on Craig's List in November, 2019.

Source

Apartments newly advertised on Craig's List at newyork.craigslist.org, November, 2019.

MarriageAges	<i>Marriage Ages</i>
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Description

Ages for husbands and wives from marriage licenses

Format

A dataset with 100 observations on the following 2 variables.

Husband	Age of husband at marriage
Wife	Age of wife at marriage

Details

Data from a sample of 100 marriage licences in St. Lawrence County, NY gives the ages of husbands and wives for newly married couples.

Source

Thanks to Linda Casserly, St. Lawrence County Clerk's Office

MastersGolf	<i>Masters Golf Scores</i>
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Description

Scores from the 2011 Masters golf tournament

Format

A dataset with 20 observations on the following 2 variables.

First	First round score (in relation to par)
Final	Final four round score (in relation to par)

Details

Data for a random sample of 20 golfers who made the cut at the 2011 Masters golf tournament.

Source

2011 Masters tournament results at http://www.masters.com/en_US/discover/past_winners.html

MateChoice	<i>Fruitfly Survival - by Mate Choice</i>
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Description

Number of fruitflies surviving depending on number of mating choices.

Format

A dataset with 50 observations on the following 3 variables.

Choice	Number of surviving larvae (out of 200) when female had a choice of mates
NoChoice	Number of surviving larvae (out of 200) when female had only one choice for a mate
Difference	Choice - NoChoice

Details

In an experiment, two hundred larvae from female fruitflies that were exposed to many male fruitflies were tracked to see how many survived. This was compared to a different set of 200 larvae from females that were exposed to only one male each. Values in the dataset give how many of the 200 larvae survived. This process was replicated 50 times, so each row of the dataset corresponds to the survival counts (and difference) for one run, starting with 200 larvae of each type.

Source

Patridge, L. (1980). "Mate choice increases a component of offspring fitness in fruit flies," *Nature*, 283:290-291, 1/17/80.

MentalMuscle	<i>Mental Muscle</i>
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Description

Comparing actual movements to mental imaging movements

Format

A dataset with 32 observations on the following 3 variables.

Action	Treatment: Actual motions or Mental imaging motions
PreFatigue	Time (in seconds) to complete motions before fatigue
PostFatigue	Time (in seconds) to complete motions after fatigue

Details

In this study, participants were asked to either perform actual arm pointing motions or to mentally imagine equivalent arm pointing motions. Participants then developed muscle fatigue by holding a heavy weight out horizontally as long as they could. After becoming fatigued, they were asked to repeat the previous mental or actual motions. Eight participants were assigned to each group, and the time in seconds to complete the motions was measured before and after fatigue.

Source

Data approximated from summary statistics in: Demougeot L. and Papaxanthis C., "Muscle Fatigue Affects Mental Simulation of Action," *The Journal of Neuroscience*, July 20, 2011, 31(29):10712-10720.

 MindsetMatters

Mindset Matters

Description

Data from a study of perceived exercise with maids

Format

A dataset with 75 observations on the following 14 variables.

Cond	Treatment condition: 0=uninformed or 1=informed
Age	Age (in years)
Wt	Original weight (in pounds)
Wt2	Weight after 4 weeks (in pounds)
BMI	Original body mass index
BMI2	Body mass index after 4 weeks
Fat	Original body fat percentage
Fat2	Body fat percentage after 4 weeks
WHR	Original waist to hip ratio
WHR2	Waist to hip ratio after 4 weeks
Syst	Original systolic blood pressure
Syst2	Systolic blood pressure after 4 weeks
Diast	Original diastolic blood pressure
Diast2	Diastolic blood pressure after 4 weeks

Details

In 2007 a Harvard psychologist recruited 75 female maids working in different hotels to participate in a study. She informed 41 maids (randomly chosen) that the work they do satisfies the Surgeon General's recommendations for an active lifestyle (which is true), giving them examples for how and why their work is good exercise. The other 34 maids were told nothing (uninformed). Various characteristics (weight, body mass index, ...) were recorded for each subject at the start of the experiment and again four weeks later. Maids with missing values for weight change have been removed.

Source

Crum, A.J. and Langer, E.J. (2007). Mind-Set Matters: Exercise and the Placebo Effect, *Psychological Science*, 18:165-171. Thanks to the authors for supplying the data.

MustangPrice	<i>Mustang Prices</i>
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Description

Price, age, and mileage for used Mustang cars at an internet website

Format

A dataset with 25 observations on the following 3 variables.

Age	Age of the car (in years)
Miles	Mileage on the car (in 1,000's)
Price	Asking price (in \$1,000's)

Details

A statistics student, Gabe McBride, was interested in prices for used Mustang cars being offered for sale on an internet site. He sampled 25 cars from the website and recorded the age (in years), mileage (in thousands of miles) and asking price (in \$1,000's) for each car in his sample.

Source

Student project with data collected from *autotrader.com* in 2008.

NBAPlayers2019	<i>NBA Players Data for 2018-19 Season</i>
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Description

Data from the 2018-2019 regular season for 193 NBA basketball players.

Format

A data frame with 193 observations on the following 26 variables.

Player Name of player

Pos PG=point guard, SG=shooting guard, PF=power forward, SF=small forward, C=center

Age Age (in years)

Team Team name

Games Games played (out of 82)

Starts Games started

Mins Minutes played
 MinPerGame Minutes per game
 FGMade Field goals made
 FGAttempt Field goals attempted
 FGPct Field goal percentage
 FG3Made Three-point field goals made
 FG3Attempt Three-point field goals attempted
 FG3Pct Three-point field goal percentage
 FTMade Free throws made
 FTAttempt Free throws attempted
 FTPct Free throw percentage
 OffRebound Offensive rebounds
 DefRebound Defensive rebounds
 Rebounds Total rebounds
 Assists Number of assists
 Steals Number of steals
 Blocks Number of blocked shots
 Turnovers Number of turnovers
 Fouls Number of personal fouls
 Points Number of points scored

Details

Data for 193 NBA basketball players from the 2018-2019 regular season. Includes all players who averaged more than 24 minutes per game that season.

** Data set updated for 3e (earlier versions are NBAPlayers2015 and NBAPlayers2011). **

Source

http://www.basketball-reference.com/leagues/NBA_2019_stats.html

NBAStandings2019

NBA 2018-2019 Regular Season Standings

Description

Won-Loss record and statistics for NBA Teams in 2018-2019

Format

A data frame with 30 observations on the following 6 variables.

Team Team name
 Wins Number of wins in an 82 game regular season
 Losses Number of losses
 WinPct Proportion of games won
 PtsFor Average points scored per game
 PtsAgainst Average points allowed per game

Details

Won-Loss record and regular season statistics for 30 teams in the National Basketball Association for the 2018-2019 season.

** Data set updated for 3e (earlier version are NBAStandings2016 and NBAStandings1e) **

Source

Data downloaded from http://www.basketball-reference.com/leagues/NBA_2019_games.html

NFLContracts2019

NFL Contracts in 2019

Description

Dollar size of contracts for all NFL players in 2019

Format

A data frame with 1988 observations on the following 5 variables.

Player Player's name

Position Code for the primary position of the player (QB=quarterback, etc.)

Team Nickname of the team

TotalMoney Total value of the contract (in millions of dollars)

YearlySalary Salary (in millions of dollars) for the 2019 season

Details

This dataset contains salary information for all National Football League (NFL) players under contract for the 2019 season. Many contracts extend over multiple years, so TotalMoney gives the overall size of the contract and YearlySalary indicates how much of that is to be paid for the 2019 season. All amounts are in millions of dollars.

** Updated for 3e (earlier version is NFLContracts2015). **

Source

Contract data collected from <http://OverTheCap.com>, accessed September, 2019.

NFLPreseason2019 *Wins for NFL Teams (2005-2019)*

Description

Number of preseason and regular season wins for NFL teams, each year from 2005 to 2019.

Format

A data frame with 480 observations on the following 4 variables.

Team Code for one of 32 NFL teams

Season Year between 2005 and 2019

Preseason Number of preseason wins (out of 4 games)

RegularWins Number of regular season wins (out of 16 games)

Details

Number of wins in the preseason (out of 4 preseason games) and regular season (out of 16 regular season games) for each of the 32 National Football (NFL) teams over a fifteen year period from 2005 to 2019.

** Updated for 3e (earlier version is now NFLPreseason2014). **

Source

Data available at <http://www.pro-football-reference.com/>.

NFLScores2018 *NFL Scores in 2018*

Description

Results for all NFL games for the 2018 regular season

Format

A data frame with 256 observations on the following 11 variables.

Week Week of the season (1 through 17)

HomeTeam Home team name

AwayTeam Visiting team name

HomeScore Points scored by the home team

AwayScore Points scored by the visiting team

HomeYards Yards gained by the home team

AwayYards Yards gained by the visiting team

HomeTO Turnovers lost by the home team

AwayTO Turnovers lost by the visiting team

Date Date of the game

Day Day of the week (Mon, Sat, Sun, or Thu)

Details

Data for all 256 regular season games in the National Football League (NFL) for the 2018 season.

** Updated for 3e (earlier version is NFLScores2011). **

Source

NFL scores and game statistics found at <http://www.pro-football-reference.com/years/2018/games.htm>.

NHANES

National Health and Nutrition Examination Survey (NHANES) Subset

Description

A subset of the 2009-2010 National Health and Nutrition Examination Survey (NHANES).

Format

A data frame with 4716 observations on the following 5 variables.

Case Case ID number

Organic Buy any food labeled organic (past 30 days)? (No or Yes)

Health Self-rating of health (Excellent, Very good, Fair, Good, or Poor)

HealthBinary Health with two categories: Poor / Fair / Good or Very good / Excellent

Income Monthly income? (dollars)

Details

This dataset is a subset of the 2009-2010 National Health and Nutrition Examination Survey (NHANES). NHANES is a national survey conducted by the Centers for Disease Control and Prevention (CDC) on a random sample of Americans. This subset contains data on select variables for the subset of people with responses to the questions about buying organic food and self-reported health status.

Source

The data were downloaded from <https://www.cdc.gov/nchs/nhanes/index.htm>.

NutritionStudy	<i>Nutrition Study</i>
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Description

Variables related to nutrition and health for 315 individuals

Format

A dataset with 315 observations on the following 17 variables.

ID	ID number for each subject in this sample
Age	Subject's age (in years)
Smoke	Smoker? coded as No or Yes
Quetelet	Weight/(Height ²)
Vitamin	Vitamin use: coded as 1=Regular, 2=Occasionally, or 3=No
Calories	Number of calories consumed per day
Fat	Grams of fat consumed per day
Fiber	Grams of fiber consumed per day
Alcohol	Number of alcoholic drinks consumed per week
Cholesterol	Cholesterol consumed (mg per day)
BetaDiet	Dietary beta-carotene consumed (mcg per day)
RetinolDiet	Dietary retinol consumed (mcg per day)
BetaPlasma	Plasma beta-carotene (ng/ml)
RetinolPlasma	Plasma retinol (ng/ml)
Sex	Coded as Female or Male
VitaminUse	Coded as No Occasional Regular
PriorSmoke	Smoking status: coded as 1=Never, 2=Former, or 3=Current

Details

Data from a cross-sectional study to investigate the relationship between personal characteristics and dietary factors, and plasma concentrations of retinol, beta-carotene and other carotenoids. Study subjects were patients who had an elective surgical procedure during a three-year period to biopsy or remove a lesion of the lung, colon, breast, skin, ovary or uterus that was found to be non-cancerous.

Source

Nierenberg, Stukel, Baron, Dain, and Greenberg, "Determinants of plasma levels of beta-carotene and retinol", *American Journal of Epidemiology* (1989). Data downloaded from http://lib.stat.cmu.edu/datasets/Plasma_Retinol.

OlympicMarathon2016	<i>2016 Olympic Men's Marathon</i>
---------------------	------------------------------------

Description

Times for all finishers in the men's marathon at the 2016 Olympics

Format

A data frame with 140 observations on the following 4 variables.

Athlete Name of marathoner

Country Nationality of marathoner (3 letter country code)

Time Time as H:MM:SS

Minutes Time in minutes

Details

Results for all finishers in the 2016 Men's Olympic marathon in Rio de Janeiro, Brazil.

** Updated for 3e (earlier versions are now in OlympicMarathon2012 and OlympicMarathon2008)

**

Source

<https://www.olympic.org/rio-2016/athletics/marathon-men>

OrganicEffect

Eating Organic Foods

Description

Data comparing pesticide levels in family members when eating non-organic vs organic food

Format

A dataset with 160 observations on the following 6 variables.

Person	Code for family member, Father, Mother, GirlA, GirlB, Boy
Pesticide	One of eight different pesticides measured
Day	Day of the measurement (Day1, Day3, Day4, or Day6)
NonOrganic	Level of the pesticide after eating a non-organic diet
Organic	Level of the pesticide after eating an organic diet
Diff	Difference = NonOrganic - Organic

Details

A study looked at a Swedish family that ate a conventional diet (non-organic), and then had them eat only organic for two weeks. Pesticide concentrations for several different pesticides were measured in micrograms/g creatinine by testing morning urine. Multiple measurements were taken for each person before the switch to organic foods, and then again after participants had been eating organic for at least one week.

Source

Magner, J., Wallberg, P., Sandberg, J., and Cousins, A.P. (2015). "Human exposure to pesticides from food: A pilot study," IVL Swedish Environmental Research Institute.

https://www.coop.se/PageFiles/429812/Coop%20Ekoeffekten_Report%20ENG.pdf, January 2015

OttawaSenators2019 *Ottawa Senators Hockey Team (2018-2019)*

Description

Data for 26 players on the 2018-2109 Ottawa Senators NHL team

Format

A data frame with 26 observations on the following 10 variables.

Player Players name

Position D=defense, C=center, RW=right wing, LW=left wing

Age Age (in years)

Games Games played in the 2018-19 NHL season (out of 82)

Goals Goals

Assists Assists

Points Goals + Assists

PlusMinus Difference between (even strength) goals for and against while on ice

PenMins Number of penalty minutes

MinPerGame Average minutes on the ice per game

Details

Data for all players (except goalies) who played at least 10 games with the Ottawa Senators hockey team in the 2018-2019 NHL season.

** Updated for 3e (previous versions are now OttawaSenators2015 and OttawaSenators1e) **

Source

<http://www.hockey-reference.com/teams/OTT/2019.html>

PASeniors

Pennsylvania High School Seniors

Description

Information on a sample of high school seniors from the state of Pennsylvania between 2010 and 2019.

Format

A data frame with 457 observations on the following 36 variables.

Year Year student submitted data

Gender Female or Male

Age Age (in years)

Hand Dominant hand (Left, Right, or Both)

Height Height (in cm)

Foot Foot length (in cm)

Armspan Armspan (in cm)

Languages Languages spoken

GetToSchool Main mode of transportation to school (Bus, Car, or Walk - Walk includes bicycle)

TravelTime Travel time to school (in minutes)

ReactionTime Time (in seconds) to click when a color changes

MemoryScore Score in an online memory game

Activity Favorite physical activity

Music Favorite genre of music

BirthMonth Birth month

Season Favorite season

Allergies Have allergies? (No or Yes)

Vegetarian Vegetarian? (No or Yes)

FavFood Favorite food

Drink Beverage used most often during the day

FavSubject Favorite subject in school

Sleep1 Typical hours of sleep on a school night

Sleep2 Typical hours of sleep on a non-school night

Occupants Number of occupants at home

Communicate Most often method to communicate with friends

TextsSent Number of texts sent (previous day)

HangHours Hours last week spent hanging out with friends

HWHours Hours last week spent doing homework

SportsHours Hours last week spent playing sports or outdoor activities

VideoGameHours Hours last week spent playing computer/video games

ComputerHours Hours last week spent using a computer

TVHours Hours last week spent watching TV

WorkHours Hours last week spent working at a paid job

SchoolPressure Amount of pressure due to schoolwork

Superpower Most desired superpower (Fly, Freeze time, Invisibility, Super strength, or Telepathy)

Preference Prefers to be Famous, Happy, Healthy, or Rich

Details

The dataset gives responses for a random sample of high school seniors in Pennsylvania who participated in the Census at Schools project.

Source

Data from U.S. Census at School (<https://www.amstat.org/censusatschool>) downloaded and used with the permission of the American Statistical Association.

 PizzaGirl

Pizza Girl Tips

Description

Data on tips for pizza deliveries

Format

A dataset with 24 observations on the following 2 variables.

Tip	Amount of tip (in dollars)
Shift	Data collected over three different shifts

Details

"Pizza Girl" collected data on her deliveries and tips over three different evening shifts.

Source

Pizza Girl: Statistical Analysis at
<http://slice.seriousseats.com/archives/2010/04/statistical-analysis-of-a-pizza-delivery-shift-20100429.html>.

 PumpkinBeer

Pumpkin Beer

Description

Ratings of different kinds of pumpkin beer by a wife and husband

Format

A data frame with 18 observations on the following 8 variables.

Name	Name of pumpkin beer
Brewer	Name of brewery that produced the beer
WifeRating	Rating on a 0-10 scale by the wife
HusbandRating	Rating on a 0-10 scale by the husband

WifeComments Text of comments by the wife
 HusbandComments Text of comments by the husband
 Average Average of the two ratings (wife and husband)
 Year Year the ratings were done (2011 to 2019)

Details

A Lock wife and husband are fans of pumpkin flavored beer, so they have each rated a variety of different brands of pumpkin beer over the years.

Source

Personal records

QuizPulse10	<i>Quiz vs Lecture Pulse Rates</i>
-------------	------------------------------------

Description

Paired data with pulse rates in a lecture and during a quiz for 10 students

Format

A dataset with 10 observations on the following 3 variables.

Student	ID number for the student
Quiz	Pulse rate (beats per minute) during a quiz
Lecture	Pulse rate (beats per minute) during a lecture

Details

Ten students in an introductory statistics class measured their pulse rate (beats per minute) in two settings: first, in the middle of a regular class lecture and second, while taking an in-class quiz.

Source

In-class data collection

RandomP50N200	<i>Simulated proportions</i>
---------------	------------------------------

Description

Counts and proportions for 5000 simulated samples with $n=200$ and $p=0.50$

Format

A dataset with 5000 observations on the following two variables

Count Number of simulated "yes" responses in 200 trials
 Phat Sample proportion (Count/200)

Details

Results from 5000 simulations of samples of size $n=200$ from a population with proportion of "yes" responses at $p=0.50$.

Source

Computer simulation

RetailSales	<i>Retail Sales (2009-2019)</i>
-------------	---------------------------------

Description

Tip data from the First Crush Bistro

Format

A dataset with 157 observations on the following 7 variables.

Bill	Size of the bill (in dollars)
Tip	Size of the tip (in dollars)
Credit	Paid with a credit card? n or y
Guests	Number of people in the group
Day	Day of the week: m=Monday, t=Tuesday, w=Wednesday, th=Thursday, or f=Friday
Server	Code for specific waiter/waitress: A, B, or C
PctTip	Tip as a percentage of the bill

Details

The owner of a bistro called First Crush in Potsdam, NY was interested in studying the tipping patterns of his customers. He collected restaurant bills over a two week period that he believes provide a good sample of his customers. The data recorded from 157 bills include the amount of the bill, size of the tip, percentage tip, number of customers in the group, whether or not a credit card was used, day of the week, and a coded identity of the server.

Source

Thanks to Tom DeRosa at First Crush for providing the tipping data.

RetailSales	<i>Retail Sales (2009-2019)</i>
-------------	---------------------------------

Description

Monthly U.S. Retail Sales from 2009 to 2019

Format

A data frame with 129 observations on the following 3 variables.

Month Month (Jan through Dec)

Year Years from 2009 to 2019

Sales Monthly U.S. retail sales (in billions of dollars)

Details

Data show the monthly retail sales (in billions) for the U.S. economy in each month from January 2009 through September 2019.

** Updated for 3e (earlier versions are RetailSales2e and RetailSales1e). **

Source

Data downloaded from <http://www.census.gov/retail/>.

RockandRoll2019

Rock & Roll Hall of Fame (2019)

Description

Groups and Individuals in the Rock and Roll Hall of Fame as of 2019

Format

A data frame with 329 observations on the following 4 variables.

Inductee Name of the group or individual

FemaleMembers Yes if individual or member of the group is female, otherwise No

Category Type of individual or group: Early Influence, Lifetime Achievement, Non-performer, Performer, or Sideman

People Number of people in the group

Details

All inductees of the Rock & Roll Hall of Fame as of 2019.

** Updated for 3e (earlier versions are now RockandRoll2015 and RockandRoll1e) **

Source

Rock & Roll Hall of Fame website, <http://rockhall.com/inductees/alphabetical/>

SalaryGender	<i>Salary and Gender</i>
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Description

Salaries for college teachers

Format

A dataset with 100 observations on the following 4 variables.

Salary Annual salary in \$1,000's
 Gender 0=female or 1=male
 Age Age in years
 PhD 1=have PhD or 0=no PhD

Details

A random sample of college teachers taken from the 2010 American Community Survey (ACS) 1-year Public Use Microdata Sample (PUMS).

Source

Downloaded from <https://www.census.gov/programs-surveys/acs/data/pums.html>

SampColleges

Sample of US Post-secondary Schools

Description

Information for a sample of 50 US post-secondary schools from the Department of Education's College Scorecard

Format

A data frame with 50 observations on the following 37 variables.

Name Name of the school

State State where school is located

ID ID number for school

Main Main campus? (1=yes, 0=branch campus)

Accred Accreditation agency

MainDegree Predominant undergrad degree (0=not classified, 1=certificate, 2=associate, 3=bachelors, 4=only graduate)

HighDegree Highest degree (0=no degrees, 1=certificate, 2=associate, 3=bachelors, 4= graduate)

Control Control of school (Private, Profit, Public)

Region Region of country (Midwest, Northeast, Southeast, Territory, West)

Locale Locale (City, Rural, Suburb, Town)

Latitude Latitude

Longitude Longitude

AdmitRate Admission rate

MidACT Median of ACT scores

AvgSAT Average combined SAT scores

Online Only online (distance) programs

Enrollment Undergraduate enrollment

White Percent of undergraduates who report being white

Black Percent of undergraduates who report being black
 Hispanic Percent of undergraduates who report being Hispanic
 Asian Percent of undergraduates who report being Asian
 Other Percent of undergraduates who don't report one of the above
 PartTime Percent of undergraduates who are part-time students
 NetPrice Average net price (cost minus aid)
 Cost Average total cost for tuition, room, board, etc.
 TuitionIn In-state tuition and fees
 TuitionOut Out-of-state tuition and fees
 TuitionFTE Net Tuition revenue per FTE student
 InstructFTE Instructional spending per FTE student
 FacSalary Average monthly salary for full-time faculty
 FullTimeFac Percent of faculty that are full-time
 Pell Percent of students receiving Pell grants
 CompRate Completion rate (percent who finish program within 150% of normal time)
 Debt Average debt for students who complete program
 Female Percent of female students
 FirstGen Percent of first-generation students
 MedIncome Median family income (in \$1,000)

Details

The US Department of Education maintains a database through its College Scorecard project of demographic information from all active postsecondary educational institutions that participate in Title IV. This dataset contains information from a sample of the 50 schools selected from CollegeScores.

Source

Data downloaded from the US Department of Education's College Scorecard at <https://collegescorecard.ed.gov/data/> (November 2019)

SampColleges2yr

Sample of College Scorecard - Two Year

Description

Information for a sample of 50 US post-secondary schools that primarily grant associate's degrees, from the Department of Education's College Scorecard

Format

A data frame with 50 observations on the following 31 variables.

Name Name of the school
 State State where school is located
 ID ID number for school
 Main Main campus? (1=yes, 0=branch campus)
 Accred Accreditation agency
 MainDegree Predominant undergrad degree (0=not classified, 1=certificate, 2=associate, 3=bachelors, 4=only graduate)
 HighDegree Highest degree (0=no degrees, 1=certificate, 2=associate, 3=bachelors, 4= graduate)
 Control Control of school (Private, Profit, Public)
 Region Region of country (Midwest, Northeast, Southeast, Territory, West)
 Locale Locale (City, Rural, Suburb, Town)
 Enrollment Undergraduate enrollment
 White Percent of undergraduates who report being white
 Black Percent of undergraduates who report being black
 Hispanic Percent of undergraduates who report being Hispanic
 Asian Percent of undergraduates who report being Asian
 Other Percent of undergraduates who don't report one of the above
 PartTime Percent of undergraduates who are part-time students
 NetPrice Average net price (cost minus aid)
 Cost Average total cost for tuition, room, board, etc.
 TuitionIn In-state tuition and fees
 TuitionOut Out-of-state tuition and fees
 TuitionFTE Net Tuition revenue per FTE student
 InstructFTE Instructional spending per FTE student
 FacSalary Average monthly salary for full-time faculty
 FullTimeFac Percent of faculty that are full-time
 Pell Percent of students receiving Pell grants
 CompRate Completion rate (percent who finish program within 150% of normal time)
 Debt Average debt for students who complete program
 Female Percent of female students
 FirstGen Percent of first-generation students
 MedIncome Median family income (in \$1,000)

Details

Details The US Department of Education maintains a database through its College Scorecard project of demographic information from all active postsecondary educational institutions that participate in Title IV. This dataset contains information from a sample of the two-year colleges selected from all two-year colleges in ColleeScores2yr.

Source

Data downloaded from the US Department of Education's College Scorecard at <https://collegescorecard.ed.gov/data/> (November 2019)

SampColleges4yr

*Sample of College Scorecard - Four Year***Description**

Information on a sample of 50 US four-year colleges and universities from the Department of Education's College Scoreboard

Format

A data frame with 50 observations on the following 37 variables.

Name Name of the school

State State where school is located

ID ID number for school

Main Main campus? (1=yes, 0=branch campus)

Accred Accreditation agency

MainDegree Predominant undergrad degree (3=bachelors)

HighDegree Highest degree (0=no degrees, 1=certificate, 2=associate, 3=bachelors, 4= graduate)

Control Control of school (Private, Profit, Public)

Region Region of country (Midwest, Northeast, Southeast, Territory, West)

Locale Locale (City, Rural, Suburb, Town)

Latitude Latitude

Longitude Longitude

AdmitRate Admission rate

MidACT Median of ACT scores

AvgSAT Average combined SAT scores

Online Only online (distance) programs

Enrollment Undergraduate enrollment

White Percent of undergraduates who report being white

Black Percent of undergraduates who report being black

Hispanic Percent of undergraduates who report being Hispanic

Asian Percent of undergraduates who report being Asian

Other Percent of undergraduates who don't report one of the above

PartTime Percent of undergraduates who are part-time students

NetPrice Average net price (cost minus aid)

Cost Average total cost for tuition, room, board, etc.

TuitionIn In-state tuition and fees

TuitionOut Out-of-state tuition and fees

TuitionFTE Net Tuition revenue per FTE student

InstructFTE Instructional spending per FTE student

FacSalary Average monthly salary for full-time faculty

FullTimeFac Percent of faculty that are full-time
 Pell Percent of students receiving Pell grants
 CompRate Completion rate (percent who finish program within 150% of normal time)
 Debt Average debt for students who complete program
 Female Percent of female students
 FirstGen Percent of first-generation students
 MedIncome Median family income (in \$1,000)

Details

The US Department of Education maintains a database through its College Scorecard project of demographic information from all active postsecondary educational institutions that participate in Title IV. This dataset contains information from a sample of the four-year colleges and universities selected from all four-year colleges in CollegeScores4yr.

Source

Data downloaded from the US Department of Education's College Scorecard at <https://collegescorecard.ed.gov/data/> (November 2019)

SampCountries	<i>Sample of Countries</i>
---------------	----------------------------

Description

Data on a sample of fifty countries of the world (2018)

Format

A data frame with 50 observations on the following 25 variables.

Country Country name
 LandArea Size in 1000 sq. km.
 Population Population in millions
 Density Number of people per square kilometer
 GDP Gross Domestic Product (in \$US) per capita
 Rural Percentage of population living in rural areas
 CO2 CO2 emissions (metric tons per capita)
 PumpPrice Price for a liter of gasoline (\$US)
 Military Percentage of government expenditures directed toward the military
 Health Percentage of government expenditures directed towards healthcare
 ArmedForces Number of active duty military personnel (in 1,000's)
 Internet Percentage of the population with access to the internet
 Cell Cell phone subscriptions (per 100 people)
 HIV Percentage of the population with HIV
 Hunger Percent of the population considered undernourished

Diabetes Percent of the population diagnosed with diabetes
 BirthRate Births per 1000 people
 DeathRate Deaths per 1000 people
 ElderlyPop Percentage of the population at least 65 years old
 LifeExpectancy Average life expectancy (years)
 FemaleLabor Percent of females 15 - 64 in the labor force
 Unemployment Percent of labor force unemployed
 EnergyUse Kilotons of oil equivalent
 Electricity Electric power consumption (kWh per capita)
 Developed Categories for kilowatt hours per capita, 1= under 2500, 2=2500 to 5000, 3=over 5000

Details

Data from AllCountries for a random sample of 50 countries. Data for 2016-2018 to avoid many missing values in more recent years.

** Updated for 3e (earlier versions are now SampCountries2e and SampCountries1e). **

Source

Data collected from the World Bank website, <http://www.worldbank.org>.

SandP500

S&P 500 Prices

Description

Daily data for S&P 500 Stock Index

Format

A data frame with 251 observations on the following 6 variables.

Date Trading date (mm/dd/yyyy)

Open Opening value

High High point for the day

Low Low point for the day

Close Closing value

Volume Shares traded (in millions)

Details

Daily prices for the S&P 500 Stock Index for trading days in 2018.

** Updated for 3e (earlier versions are SandP5002e from 2014 and SandP5001e from 2010). **

Source

Downloaded from <http://finance.yahoo.com/q/hp?s=GSPC+Historical+Prices>

 SandwichAnts

Sandwich Ants

Description

Ant counts on samples of different sandwiches

Format

A dataset with 24 observations on the following 5 variables.

Butter	Butter on the sandwich? no (Cases with Butter=yes are in SandwichAnts2)
Filling	Type of filling: Ham & Pickles, Peanut Butter, or Vegemite
Bread	Type of bread: Multigrain, Rye, White, or Wholemeal
Ants	Number of ants on the sandwich
Order	Trial number

Details

As young students, Dominic Kelly and his friends enjoyed watching ants gather on pieces of sandwiches. Later, as a university student, Dominic decided to study this with a more formal experiment. He chose three types of sandwich fillings (vegemite, peanut butter, and ham & pickles), four types of bread (multigrain, rye, white, and wholemeal), and put butter on some of the sandwiches.

To conduct the experiment he randomly chose a sandwich, broke off a piece, and left it on the ground near an ant hill. After several minutes he placed a jar over the sandwich bit and counted the number of ants. He repeated the process, allowing time for ants to return to the hill after each trial, until he had two samples for each combination of the factors.

This dataset has only sandwiches with no butter. The data in SandwichAnts2 adds information for samples with butter.

Source

Margaret Mackisack, "Favourite Experiments: An Addendum to What is the Use of Experiments Conducted by Statistics Students?", *Journal of Statistics Education* (1994)
<http://www.amstat.org/publications/jse/v2n1/mackisack.supp.html>

 SandwichAnts2

Sandwich Ants - Part 2

Description

Ant counts on samples of different sandwiches

Format

A dataset with 48 observations on the following 5 variables.

Butter	Butter on the sandwich? no or yes
Filling	Type of filling: Ham & Pickles, Peanut Butter, or Vegemite

Bread Type of bread: Multigrain, Rye, White, or Wholemeal
 Ants Number of ants on the sandwich
 Order Trial number

Details

As young students, Dominic Kelly and his friends enjoyed watching ants gather on pieces of sandwiches. Later, as a university student, Dominic decided to study this with a more formal experiment. He chose three types of sandwich fillings (vegemite, peanut butter, and ham & pickles), four types of bread (multigrain, rye, white, and wholemeal), and put butter on some of the sandwiches. To conduct the experiment he randomly chose a sandwich, broke off a piece, and left it on the ground near an ant hill. After several minutes he placed a jar over the sandwich bit and counted the number of ants. He repeated the process, allowing time for ants to return to the hill after each trial, until he had two samples for each combination of the three factors.

Source

Margaret Mackisack, "Favourite Experiments: An Addendum to What is the Use of Experiments Conducted by Statistics Students?", *Journal of Statistics Education* (1994)
<http://www.amstat.org/publications/jse/v2n1/mackisack.supp.html>

SkateboardPrices	<i>Skateboard Prices</i>
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Description

Prices of skateboards for sale online

Format

A dataset with 20 observations on the following variable.

Price Selling price in dollars

Details

Prices for skateboards offered for sale on eBay.

Source

Random sample taken from all skateboards available for sale on eBay on February 12, 2012.

SleepCaffeine	<i>Sleep Caffeine</i>
---------------	-----------------------

Description

Experiment to compare word recall after sleep or caffeine

Format

A dataset with 24 observations on the following 2 variables.

Group	Treatment: Caffeine or Sleep
Words	Number of words recalled

Details

A random sample of 24 adults were divided equally into two groups and given a list of 24 words to memorize. During a break, one group takes a 90 minute nap while another group is given a caffeine pill. The response variable is the number of words participants are able to recall following the break.

Source

Mednick, Cai, Kanady, and Drummond, "Comparing the benefits of caffeine, naps and placebo on verbal, motor and perceptual memory", *Behavioural Brain Research*, 193 (2008), 79-86.

SleepStudy

Sleep Study

Description

Data from a study of sleep patterns for college students.

Format

A dataset with 253 observations on the following 27 variables.

Gender	1=male, 0=female
ClassYear	Year in school, 1=first year, ..., 4=senior
LarkOwl	Early riser or night owl? Lark, Neither, or Owl
NumEarlyClass	Number of classes per week before 9 am
EarlyClass	Indicator for any early classes
GPA	Grade point average (0-4 scale)
ClassesMissed	Number of classes missed in a semester
CognitionZscore	Z-score on a test of cognitive skills
PoorSleepQuality	Measure of sleep quality (higher values are poorer sleep)
DepressionScore	Measure of degree of depression
AnxietyScore	Measure of amount of anxiety
StressScore	Measure of amount of stress
DepressionStatus	Coded depression score: normal, moderate, or severe
AnxietyStatus	Coded anxiety score: normal, moderate, or severe
Stress	Coded stress score: normal or high
DASScore	Combined score for depression, anxiety and stress
Happiness	Measure of degree of happiness
AlcoholUse	Self-reported: Abstain, Light, Moderate, or Heavy
Drinks	Number of alcoholic drinks per week
WeekdayBed	Average weekday bedtime (24.0=midnight)
WeekdayRise	Average weekday rise time (8.0=8 am)

WeekdaySleep	Average hours of sleep on weekdays
WeekendBed	Average weekend bedtime (24.0=midnight)
WeekendRise	Average weekend rise time (8.0=8 am)
WeekendSleep	Average weekend bedtime (24.0=midnight)
AverageSleep	Average hours of sleep for all days
AllNighter	Had an all-nighter this semester? 1=yes, 0=no

Details

The data were obtained from a sample of students who did skills tests to measure cognitive function, completed a survey that asked many questions about attitudes and habits, and kept a sleep diary to record time and quality of sleep over a two week period.

Source

Onyper, S., Thacher, P., Gilbert, J., Gradess, S., "Class Start Times, Sleep, and Academic Performance in College: A Path Analysis," April 2012; 29(3): 318-335. Thanks to the authors for supplying the data.

Smiles

Smiles

Description

Experiment to study effect of smiling on leniency in judicial matters

Format

A dataset with 68 observations on the following 2 variables.

Leniency	Score assigned by a judgment panel (higher is more lenient)
Group	Treatment group: neutral or smile

Details

Hecht and LeFrance conducted a study examining the effect of a smile on the leniency of disciplinary action for wrongdoers. Participants in the experiment took the role of members of a college disciplinary panel judging students accused of cheating. For each suspect, along with a description of the offense, a picture was provided with either a smile or neutral facial expression. A leniency score was calculated based on the disciplinary decisions made by the participants.

Source

LaFrance, M., & Hecht, M. A., "Why smiles generate leniency", *Personality and Social Psychology Bulletin*, 21, 1995, 207-214.

SpeedDating

*Speed Dating***Description**

Data from a sample of four minute speed dates.

Format

A dataset with 276 observations on the following 22 variables.

DecisionM	Would the male like another date? 1=yes 0=no
DecisionF	Would the female like another date? 1=yes 0=no
LikeM	How much the male likes his partner (1-10 scale)
LikeF	How much the female likes her partner (1-10 scale)
PartnerYesM	Male's estimate of chance the female wants another date (1-10 scale)
PartnerYesF	Female's estimate of chance the male wants another date (1-10 scale)
AgeM	Male's age (in years)
AgeF	Females age (in years)
RaceM	Male's race: Asian Black Caucasian Latino Other
RaceF	Female's race: Asian Black Caucasian Latino Other
AttractiveM	Male's rating of female's attractiveness (1-10 scale)
AttractiveF	Female's rating of male's attractiveness (1-10 scale)
SincereM	Male's rating of female's sincerity (1-10 scale)
SincereF	Female's rating of male's sincerity (1-10 scale)
IntelligentM	Male's rating of female's intelligence (1-10 scale)
IntelligentF	Female's rating of male's intelligence (1-10 scale)
FunM	Male's rating of female as fun (1-10 scale)
FunF	Female's rating of male as fun (1-10 scale)
AmbitiousM	Male's rating of female's ambition (1-10 scale)
AmbitiousF	Female's rating of male's ambition (1-10 scale)
SharedInterestsM	Male's rating of female's shared interests (1-10 scale)
SharedInterestsF	Female's rating of male's shared interests (1-10 scale)

Details

Participants were students at Columbia's graduate and professional schools, recruited by mass email, posted fliers, and fliers handed out by research assistants. Each participant attended one speed dating session, in which they met with each participant of the opposite sex for four minutes. Order and session assignments were randomly determined. After each four minute "speed date," participants filled out a form rating their date on a scale of 1-10 on various attributes. Only data from the first date in each session is recorded here.

Source

Gelman, A. and Hill, J., Data analysis using regression and multilevel/hierarchical models, Cambridge University Press: New York, 2007

 SplitBill

Split Bill vs Individual Meal Costs

Description

Meal costs when ordering individually vs splitting a bill

Format

A dataset with 48 observations on the following 4 variables.

Payment	Payment method: Individual or Split
Sex	F = female or M = male
Items	Number of items ordered
Cost	Cost of items ordered in Israeli new shekel's (ILS)

Details

Subjects were 48 Israeli students who were randomly assigned to eat in groups of six (three males and three females) at a restaurant. Half the groups were told that they would pay for meals individually and half were told that the group would split the bill equally. The number of items ordered and cost (in Israeli new shekels) was recorded for each individual.

Source

Gneezy, U., Haruvy, E., and Yafe, H. "The Inefficiency of Splitting the Bill," *The Economic Journal*, 2004; 114, 265-280.

 StatGrades

Statistics Exam Grades

Description

Grades on statistics exams

Format

A dataset with 50 observations on the following 3 variables.

Exam1	Score (out of 100 points) on the first exam
Exam2	Score (out of 100 points) on the second exam
Final	Score (out of 100 points) on the final exam

Details

Exam scores for a sample of students who completed a course using *Statistics: Unlocking the Power of Data* as a text. The dataset contains scores on Exam1 (Chapters 1 to 4), Exam2 (Chapters 5 to 8), and the Final exam (entire book).

Source

Random selection of students in an introductory statistics course.

StockChanges	<i>Stock Changes</i>
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Description

Stock price change for a sample of stocks from the S&P 500 (August 2-6, 2010)

Format

A dataset with 50 observations on the following variable.

SPChange	Change in stock price (in dollars)
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Details

A random sample of 50 companies from Standard & Poor's index of 500 companies was selected. The change in the price of the stock (in dollars) over the 5-day period from August 2 - 6, 2010 was recorded for each company in the sample.

Source

Data obtained from <http://money.cnn.com/data/markets/sandp/>

StorySpoilers	<i>Story Spoilers</i>
---------------	-----------------------

Description

Ratings for stories with and without spoilers

Format

A dataset with 12 observations on the following 3 variables.

Story	ID for story
Spoiler	Average (0-10) rating for spoiler version
Original	Average (0-10) rating for original version

Details

This study investigated whether a story spoiler that gives away the ending early diminishes suspense and hurts enjoyment. For twelve different short stories, the study's authors created a second version in which a spoiler paragraph at the beginning discussed the story and revealed the outcome. Each version of the twelve stories was read by at least 30 people and rated on a 1 to 10 scale to create an

overall rating for the story, with higher ratings indicating greater enjoyment of the story. Stories 1 to 4 were ironic twist stories, stories 5 to 8 were mysteries, and stories 9 to 12 were literary stories.

Source

Leavitt, J. and Christenfeld, N., "Story Spoilers Don't Spoil Stories," Psychological Science, published OnlineFirst, August 12, 2011.

StressedMice

Stressed Mice

Description

Time in darkness for mice in different environments

Format

A dataset with 14 observations on the following 2 variables.

Time	Time spent in darkness (in seconds)
Environment	Type of environment: Enriched or Standard

Details

In the study, mice were randomly assigned to either an enriched environment where there was an exercise wheel available, or a standard environment with no exercise options. After three weeks in the specified environment, for five minutes a day for two weeks, the mice were each exposed to a "mouse bully" - a mouse who was very strong, aggressive, and territorial. One measure of mouse anxiety is amount of time hiding in a dark compartment, with mice who are more anxious spending more time in darkness. The amount of time spent in darkness is recorded for each of the mice.

Source

Data approximated from summary statistics in: Lehmann and Herkenham, "Environmental Enrichment Confers Stress Resiliency to Social Defeat through an Infralimbic Cortex-Dependent Neuroanatomical Pathway", The Journal of Neuroscience, April 20, 2011, 31(16):61596173.

StudentSurvey

Student Survey Data

Description

Data from a survey of students in introductory statistics courses

Format

A data frame with 362 observations on the following 17 variables.

Year Year in school

Sex code F=female or M=male
 Smoke Smoker? No or Yes
 Award Preferred award: Academy, Nobel, or Olympic
 HigherSAT Which SAT is higher? Math or Verbal
 Exercise Hours of exercise per week
 TV Hours of TV viewing per week
 Height Height (in inches)
 Weight Weight (in pounds)
 Siblings Number of siblings
 BirthOrder Birth order, 1=oldest
 VerbalSAT Verbal SAT score
 MathSAT Math SAT scorer
 SAT Combined Verbal + Math SAT
 GPA College grade point average
 Pulse Pulse rate (beats per minute)
 Piercings Number of body piercings

Details

Data from an in-class survey given to introductory statistics students over several years. Note the Sex variable was labeled as Gender in earlier versions of this dataset. We acknowledge that this binary dichotomization is not a complete or inclusive representation of reality.

Source

In-class student survey

SynchronizedMovement *Synchronized Movement*

Description

Effects of synchronized movement activities

Format

A dataset with 264 observations on the following 11 variables.

Sex	f = female or m = male
Group	Type of activity. Coded as HS+HE, HS+LE, LS+HE, or LS+LE for High/Low Synchronizaton + High/Low Exertion
Synch	Synchronized activity? yes or no
Exertion	Exertion level: high or low
PainToleranceBefore	Measure of pain tolerance (mm Hg) before activity
PainTolerance	Measure of pain tolerance (mm Hg) after activity
PainToIDiff	Difference (after - before) in pain tolerance
MaxPressure	Reached the maximum pressure (300 mm Hg) when testing pain tolerance (after)
CloseBefore	Rating of closeness to the group before activity (1=least close to 7=most close)
CloseAfter	Rating of closeness to the group after activity (1=least close to 7=most close)
CloseDiff	Change on closeness rating (after - before)

Details

From a study of 264 high school students in Brazil to examine the effect of doing synchronized movements (such as marching in step or doing synchronized dance steps) and the effect of exertion on variables, such as pain tolerance and attitudes towards others. Students were randomly assigned to activities that involved synchronized or non-synchronized movements involving high or low levels of exertion. Pain tolerance was measured with a blood pressure cuff, going to a maximum possible reading of 300 mmHg.

Source

Tarr B, Launay J, Cohen E, and Dunbar R, "Synchrony and exertion during dance independently raise pain threshold and encourage social bonding," *Biology Letters*, 11(10), October 2015.

TenCountries	<i>Ten Countries</i>
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Description

A subset of the AllCountries data for a random sample of ten countries

Format

A data frame with 10 observations on the following 4 variables.

Country Country name
 Code Three-letter country code
 Area Size in 1000 sq. kilometers
 PctRural Percentage of population living in rural areas

Details

Area and percent rural for a sample of ten countries from AllCountries dataset.
 ** Updated for 3e (earlier versions are now TenCountries2e and TenCountries1e) **

Source

Data collected from the World Bank website, <http://www.worldbank.org>

TextbookCosts	<i>Textbook Costs</i>
---------------	-----------------------

Description

Prices for textbooks for different courses

Format

A data frame with 40 observations on the following 3 variables.

Field General discipline of the course: Arts, Humanities, NaturalScience, or SocialScience
 Books Number of books required
 Cost Total cost (in dollars) for required books

Details

Data are from samples of ten courses in each of four disciplines at a liberal arts college. For each course the bookstore's website lists the required texts(s) and costs. Data were collected for the Fall 2011 semester.

Source

Bookstore online site

ToenailArsenic	<i>Toenail Arsenic</i>
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Description

Arsenic in toenails of 19 people using private wells in New Hampshire

Format

A dataset with 19 observations on the following variable.

Arsenic Level of arsenic found in toenails (ppm)

Details

Level of arsenic was measured in toenails of 19 subjects from New Hampshire, all with private wells as their main water source.

Source

Adapted from Karagas, et.al., "Toenail Samples as an Indicator of Drinking Water Arsenic Exposure", *Cancer Epidemiology, Biomarkers and Prevention* 1996;5:849-852.

TrafficFlow	<i>Traffic Flow</i>
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Description

Traffic flow times from a simulation with timed and flexible traffic lights

Format

A dataset with 24 observations on the following 3 variables.

Timed	Delay time (in minutes) for fixed timed lights
Flexible	Delay time (in minutes) for flexible communicating lights
Difference	Difference (Timed-Flexible) for each simulation

Details

Engineers in Dresden, Germany were looking at ways to improve traffic flow by enabling traffic lights to communicate information about traffic flow with nearby traffic lights. The data show results of one experiment where they simulated buses moving along a street and recorded the delay time (in seconds) for both a fixed time and a flexible system of lights. The process was repeated under both conditions for a sample of 24 simulated scenarios.

Source

Lammer and Helbing, "Self-Stabilizing decentralized signal control of realistic, saturated network traffic", Santa Fe Institute working paper \# 10-09-019, September 2010.

 USStates

US State Data

Description

Various data for all 50 US States.

Format

A data frame with 50 observations on the following 22 variables.

State State name

HouseholdIncome Median household income (in \$1,000's)

Region MW=Midwest, NE=Northeast, S=South, W=West

Population Number of residents (in millions for 2014)

EighthGradeMath Average score NAEP mathematics for 8th-grade students

HighSchool % of residents (ages 25-34) who are high school graduates

College % of residents (ages 25-34) who are college graduates

IQ Estimated mean IQ score of residents

GSP Gross state product (in \$1,000's per capita)

Vegetables % of residents eating vegetables at least once per day

Fruit % of residents eating fruit at least once per day

Smokers % of residents who smoke

PhysicalActivity % who do 150+ minutes of aerobic physical activity per week

Obese % obese residents (BMI 30+)

NonWhite % nonwhite residents

HeavyDrinkers % heavy drinkers (men: 14+ drinks/week, women 7+ drinks/week)

Electoral Number of state votes in the presidential electoral college

ClintonVote Proportion of votes for Democrat Clinton in 2016 presidential election

Elect2016 State winner in 2016 presidential election (D=Clinton, R=Trump)

TwoParents % of children living in two-parent households

StudentSpending School spending (in \$1,000 per pupil)

Insured % of adults (ages 19-64) who have any kind of health coverage

Details

Information from each of the 50 states of the United States. Years vary from 2013 to 2018 depending on data availability.

** Updated for 3e (earlier versions are now USStates2e and USStates1e) **

Source

U.S. Census Bureau, 2013-2017 5-Year American Community Survey

http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_DP03&src=pt

http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_S1501&src=pt

http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_B02001&prodType=table

<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml> (Table C23008)

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_S2701&prodType=table

WaterStriders

Water Striders

Description

Mating activity for water striders

Format

A dataset with 10 observations on the following 3 variables.

AggressiveMale	Hyper-aggressive male in group? No or Yes
FemalesHiding	Proportion of time the female water striders were in hiding
MatingActivity	Measure of mean mating activity (higher numbers meaning more mating)

Details

Water striders are common bugs that skate across the surface of water. Water striders have different personalities and some of the males are hyper-aggressive, meaning they jump on and wrestle with any other water strider near them. Individually, because hyper-aggressive males are much more active, they tend to have better mating success than more inactive striders. This study examined the effect they have on a group. Four males and three females were put in each of ten pools of water. Half of the groups had a hyper-aggressive male as one of the males and half did not. The proportion of time females are in hiding was measured for each of the 10 groups, and a measure of mean mating activity was also measured with higher numbers meaning more mating.

Source

Sih, A. and Watters, J., "The mix matters: behavioural types and group dynamics in water striders," *Behaviour*, 2005; 142(9-10): 1423.

WaterTaste

WaterTaste

Description

Blind taste test to compare brands of bottled water

Format

A dataset with 100 observations on the following 10 variables.

Gender	Gender of respondent: F=Female M=Male
Age	Age (in years)
Class	Year in school F=First year J=Junior O=Other P S0=Sophomore SR=Senior
UsuallyDrink	Usual source of drinking water: Bottled, Filtered, or Tap
FavBotWatBrand	Favorite brand of bottled water
Preference	Order of preference: A=Sams Choice, B=Aquafina, C=Fiji, and D=Tap water
First	Top choice among Aquafina, Fiji, SamsChoice, or Tap
Second	Second choice
Third	Third choice
Fourth	Fourth choice

Details

Result from a blind taste test comparing four different types of water (Sam's Choice, Aquafina, Fiji, and tap water). Participants rank ordered waters when presented in a random order.

Source

"Water Taste Test Data" by M. Leigh Lunsford and Alix D. Dowling Finch in the *Journal of Statistics Education* (Vol 18, No, 1) 2010
<http://www.amstat.org/publications/jse/v18n1/lunsford.pdf>

Wetsuits

Wetsuits

Description

Swim velocity (for 1500 meters) with and without wearing a wetsuit

Format

A dataset with 12 observations on the following 4 variables.

Wetsuit	Maximum swim velocity (m/sec) when wearing a wetsuit
---------	--

NoWetsuit	Maximum swim velocity (m/sec) when wearing a regular bathing suit
Gender	Gender of swimmer: F or M
Type	Type of athlete: swimmer or triathlete

Details

A study tested whether wearing wetsuits influences swimming velocity. Twelve competitive swimmers and triathletes swam 1500m at maximum speed twice each; once wearing a wetsuit and once wearing a regular bathing suit. The order of the trials was randomized. Each time, the maximum velocity in meters/sec of the swimmer was recorded.

Source

de Lucas, R.D., Balildan, P., Neiva, C.M., Greco, C.C., Denadai, B.S. (2000). "The effects of wetsuits on physiological and biomechanical indices during swimming," *Journal of Science and Medicine in Sport*, 3 (1): 1-8.

YoungBlood

Young Blood

Description

Effects of transfusions of young blood on exercise endurance in mice

Format

A dataset with 30 observations on the following 2 variables.

Plasma	Whether the blood came from a Young or Old mouse
Runtime	Maximum treadmill run time (in minutes) in a 90-minute window

Details

The data come from a study to see if transfusions of blood plasma from young mice (equivalent to about a 25-year-old person) can counteract or reverse brain aging in old mice (equivalent to about a 70-year-old person.) Old mice were randomly assigned to receive plasma from either a young mice or another old mouse, and exercise endurance was measured.

Source

Data come from two references, and are estimated from summary statistics and graphs.
 Sanders L, "Young blood proven good for old brain," *Science News*, 185(11), May 31, 2014.
 Manisha S, et al., "Restoring Systemic GDF11 Levels Reverses Age-Related Dysfunction in Mouse Skeletal Muscle," *Science*, 9 May 2014.

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