Package ‘Lock5Data’

July 1, 2017

Type Package
Title Datasets for `Statistics: UnLocking the Power of Data`
Version 2.8
Date 2017-06-30
Author Robin Lock
Maintainer Robin Lock <rlock@stlawu.edu>
Description Datasets for `Statistics: Unlocking the Power of Data` by Lock^5
Datasets for the first and second editions of the book. Older editions of revised data often have an extra 1e in the name.
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Details

Package: Lock5Data
Type: Package
Version: 2.8
Date: 2017-06-30
License: GPL-2
LazyLoad: yes

Author(s)

Robin Lock
Maintainer: Robin Lock <rlock@stlawu.edu>

Description

Data from a sample of individuals in the American Community Survey

Format

A dataset with 1000 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, white, or other
- **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

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 = 1000 from the 2010 data for this dataset.
Source

The full public dataset can be downloaded at 
http://www.census.gov/acs/www/data documentation/pums data/, 
and the full list of variables are at 

<table>
<thead>
<tr>
<th>Description</th>
<th>AllCountries</th>
</tr>
</thead>
</table>

Data on the countries of the world

Format

A dataset with 215 observations on the following 25 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country</td>
<td>Name of the country</td>
</tr>
<tr>
<td>LandArea</td>
<td>Size in 1000 sq. kilometers</td>
</tr>
<tr>
<td>Population</td>
<td>Population in millions</td>
</tr>
<tr>
<td>Density</td>
<td>Number of people per square kilometer</td>
</tr>
<tr>
<td>GDP</td>
<td>Gross Domestic Product (in $US) per capita</td>
</tr>
<tr>
<td>Rural</td>
<td>Percentage of population living in rural areas</td>
</tr>
<tr>
<td>CO2</td>
<td>CO2 emissions (metric tons per capita)</td>
</tr>
<tr>
<td>PumpPrice</td>
<td>Price for a liter of gasoline ($US)</td>
</tr>
<tr>
<td>Military</td>
<td>Percentage of government expenditures directed toward the military</td>
</tr>
<tr>
<td>Health</td>
<td>Percentage of government expenditures directed towards healthcare</td>
</tr>
<tr>
<td>ArmedForces</td>
<td>Number of active duty military personnel (in 1,000’s)</td>
</tr>
<tr>
<td>Internet</td>
<td>Percentage of the population with access to the internet</td>
</tr>
<tr>
<td>Cell</td>
<td>Cell phone subscriptions (per 100 people)</td>
</tr>
<tr>
<td>HIV</td>
<td>Percentage of the population with HIV</td>
</tr>
<tr>
<td>Hunger</td>
<td>Percent of the population considered undernourished</td>
</tr>
<tr>
<td>Diabetes</td>
<td>Percent of the population diagnosed with diabetes</td>
</tr>
<tr>
<td>BirthRate</td>
<td>Births per 1000 people</td>
</tr>
<tr>
<td>DeathRate</td>
<td>Deaths per 1000 people</td>
</tr>
<tr>
<td>ElderlyPop</td>
<td>Percentage of the population at least 65 years old</td>
</tr>
<tr>
<td>LifeExpectancy</td>
<td>Average life expectancy (years)</td>
</tr>
<tr>
<td>FemaleLabor</td>
<td>Percent of females 15 - 64 in the labor force</td>
</tr>
<tr>
<td>Unemployment</td>
<td>Percent of labor force unemployed</td>
</tr>
<tr>
<td>Energy</td>
<td>Energy usage (kilotons of oil equivalent)</td>
</tr>
<tr>
<td>Electricity</td>
<td>Electric power consumption (kWh per capita)</td>
</tr>
<tr>
<td>Developed</td>
<td>Categories for kilowatt hours per capita, 1= under 2500, 2=2500 to 5000, 3=over 5000</td>
</tr>
</tbody>
</table>
Details

Data for each variable were collected for years between 2012 and 2014. 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 version (now Allcountries1e) **

Source

Data collected from the World Bank website, worldbank.org.

Description

Data on the countries of the world

Format

A dataset with 213 observations on the following 18 variables.

Country Name of the country
Code Three letter country code
LandArea Size in sq. kilometers
Population Population in millions
Energy Energy usage (kilotons of oil)
Rural Percentage of population living in rural areas
Military Percentage of government expenditures directed toward the military
Health Percentage of government expenditures directed towards healthcare
HIV Percentage of the population with HIV
Internet Percentage of the population with access to the internet
Developed Categories for kilowatt hours per capita, 1= under 2500, 2=2500 to 5000, 3=over 5000
BirthRate Births per 1000 people
ElderlyPop Percentage of the population at least 65 years old
LifeExpectancy Average life expectancy (years)
CO2 CO2 emissions (metric tons per capita)
GDP Gross Domestic Product (per capita)
Cell Cell phone subscriptions (per 100 people)
Electricity Electric power consumption (kWh per capita)

Details

Most data from 2008 to avoid many missing values in more recent years.

** From 1e - dataset has been updated for 2e **
Source

Data collected from the World Bank website, worldbank.org.

---

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 dataset with 21 observations on the following 3 variables.

- **Year**: 1995 to 2015
- **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 21 years from 1995-2015

**Data set updated for 2e (original is now April14Temps1e)**
BaseballHits

Source

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

April14Temps1e  April 14th Temperatures -1e

Description

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

Format

A dataset with 16 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Year</th>
<th>1995-2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>DesMoines</td>
<td>Temperature in Des Moines (degrees F)</td>
</tr>
<tr>
<td>SanFrancisco</td>
<td>Temperature in San Francisco (degrees F)</td>
</tr>
</tbody>
</table>

Details

Average temperature for the day of April 14th in each of 16 years from 1995-2010

**From 1e - dataset has been updated for 2e**

Source

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

BaseballHits  Baseball Hits

Description

Number of hits, wins, and other stats for MLB teams - 2014

Format

A dataset with 30 observations on the following 14 variables.

<table>
<thead>
<tr>
<th>Team</th>
<th>Name of baseball team (3-character code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>League</td>
<td>Either AL or NL</td>
</tr>
<tr>
<td>Wins</td>
<td>Number of wins for the season</td>
</tr>
<tr>
<td>Runs</td>
<td>Number of runs scored</td>
</tr>
<tr>
<td>Hits</td>
<td>Number of hits</td>
</tr>
</tbody>
</table>
Details

Data from the 2014 Major League Baseball regular season.
** Updated for 2e (original is now BaseballHits1e)

Source


<table>
<thead>
<tr>
<th>BaseballHits1e</th>
<th>Baseball Hits</th>
</tr>
</thead>
</table>

Description

Number of hits, wins, and other stats for MLB teams - 2011

Format

A dataset with 30 observations on the following 14 variables.

- Team: Name of baseball team
- League: Either American AL or National NL League
- 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

Data from the 2010 Major League Baseball regular season.
** From 1e - dataset has been updated for 2e **

Source


---

**BaseballSalaries2015 **  
** MLB Player Salaries in 2015 **

Description

Opening Day salaries for all Major League Baseball players in 2015

Format

A dataset with 868 observations on the following 4 variables.

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Player’s name</td>
</tr>
<tr>
<td>Salary</td>
<td>2015 season salary (in millions)</td>
</tr>
<tr>
<td>Team</td>
<td>Abbreviated team name</td>
</tr>
<tr>
<td>Position</td>
<td>Code for player’s main position</td>
</tr>
</tbody>
</table>

Details

Yearly salary (in millions of dollars) for all players on the rosters of Major League Baseball teams at the start of the 2015 season.

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**


---

**Benford**  
**Benford data**

---

**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**  
*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**  

---

**BodyFat**  
*Description*  
Percent fat and other body measurements for a sample of men  

**Format**  
A dataset with 100 observations on the following 10 variables.
### Bodyfat
- **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** Exended 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](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.

---

### Description

Sample of 50 body temperatures

### Format

A dataset with 50 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BodyTemp</td>
<td>Body temperature in degrees F</td>
</tr>
<tr>
<td>Pulse</td>
<td>Pulse rates (beat per minute)</td>
</tr>
<tr>
<td>Gender</td>
<td>F=Female, M=Male</td>
</tr>
</tbody>
</table>

### Details

Body temperatures and pulse rates for a sample of 50 healthy adults.
CaffeineTaps

Source

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.

<table>
<thead>
<tr>
<th>Taps</th>
<th>Number of finger taps in one minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group</td>
<td>Treatment with levels Caffeine NoCaffeine</td>
</tr>
</tbody>
</table>

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

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.

<table>
<thead>
<tr>
<th>Student ID code for student</th>
<th>Pretest: CAOS Pretest score</th>
<th>Posttest: CAOS Posttest score</th>
</tr>
</thead>
</table>

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](http://app.gen.umn.edu/artist/caos.html)

CarbonDioxide | Carbon Dioxide Levels
---|---

Description
Atmospheric carbon dioxide levels by year
Format

A dataset with 11 observations on the following 2 variables.

   Year  Every five years from 1960 to 2010
   CO2   Carbon dioxide level in parts per million

Details

Carbon dioxide levels in the atmosphere over a 50 year span from 1960-2010.

Source

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

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.
Description

Information about new car models in 2015

Format

A dataset with 110 observations on the following 24 variables.

Make  Manufacturer (e.g. Chevrolet, Toyota, etc.)
Model  Car model (e.g. Impala, Prius, ...)
Type  Vehicle category (Small, Hatchback, Sedan, Sporty, Wagon, SUV, 7Pass)
LowPrice  Lowest MSRP (in $1,000)
HighPrice  Highest MSRP (in $1,000)
Drive  Type of drive (FWD, RWD, AWD)
CityMPG  City miles per gallon (EPA)
HwyMPG  Highway miles per gallon (EPA)
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)
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
PageNum  Page number in the Consumer Reports New Car Buying Guide
Size  Small, Midsized, or Large

Details

Data for a set of 110 new car models in 2015 based on information in the Consumer Reports New Car Buying Guide.

Source

Consumer Reports 2015 New Car Buying Guide
CityTemps

---

**Cereal**

*Breakfast Cereals*

---

**Description**

Nutrition information for a sample of 30 breakfast cereals

**Format**

A dataset with 30 observations on the following 10 variables.

<table>
<thead>
<tr>
<th>Name</th>
<th>Brand name of cereal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company</td>
<td>Manufacturer coded as G=General Mills, K=Kellog’s or Q=Quaker</td>
</tr>
<tr>
<td>Serving</td>
<td>Serving size (in cups)</td>
</tr>
<tr>
<td>Calories</td>
<td>Calories (per cup)</td>
</tr>
<tr>
<td>Fat</td>
<td>Fat (grams per cup)</td>
</tr>
<tr>
<td>Sodium</td>
<td>Sodium (mg per cup)</td>
</tr>
<tr>
<td>Carbs</td>
<td>Carbohydrates (grams per cup)</td>
</tr>
<tr>
<td>Fiber</td>
<td>Dietary Fiber (grams per cup)</td>
</tr>
<tr>
<td>Sugars</td>
<td>Sugars (grams per cup)</td>
</tr>
<tr>
<td>Protein</td>
<td>Protein (grams per cup)</td>
</tr>
</tbody>
</table>

**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

*City Temperatures*

---

**Description**

Mean monthly temperature in Moscow, Melbourne, and San Francisco for 2014 and 2015

**Format**

A dataset with 24 observations on the following 5 variables.

| Year    | 2014 or 2015 |
Details

Mean monthly temperatures in degrees Celsius for the years 2014 and 2015 in each of three cities.

Source

KNMI Climate Explorer at https://climexp.knmi.nl/selectstation.cgi?id=someone@somewhere

---

### Cocaine Treatment

**Description**

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

**Format**

A dataset with 72 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Drug</th>
<th>Treatment drug: Desipramine, Lithium, or Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relapse</td>
<td>Did the patient relapse? no or yes</td>
</tr>
</tbody>
</table>

**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**


---

### Cola Calcium

**Description**

Calcium excretion with diet cola and water
Format

A dataset with 16 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Drink</th>
<th>Type of drink: Diet cola or Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium</td>
<td>Amount of calcium excreted (in mg.)</td>
</tr>
</tbody>
</table>

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.

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.

<table>
<thead>
<tr>
<th>City</th>
<th>Atlanta</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>Age of the respondent (in years)</td>
</tr>
<tr>
<td>Distance</td>
<td>Commute distance (in miles)</td>
</tr>
<tr>
<td>Time</td>
<td>Commute time (in minutes)</td>
</tr>
<tr>
<td>Sex</td>
<td>F or M</td>
</tr>
</tbody>
</table>

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.
CompassionateRats

Source


Commutestlouis  Commute Times in St. Louis

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.

<table>
<thead>
<tr>
<th>City</th>
<th>St. Louis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>Age of the respondent (in years)</td>
</tr>
<tr>
<td>Distance</td>
<td>Commute distance (in miles)</td>
</tr>
<tr>
<td>Time</td>
<td>Commute time (in minutes)</td>
</tr>
<tr>
<td>Sex</td>
<td>F or M</td>
</tr>
</tbody>
</table>

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


CompassionateRats  Compassionate Rats

Description

Would a rat attempt to free a trapped rat?
**CricketChirps**

**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**


---

**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**

Description

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

Format

A dataset with 1000 observations on the following 6 variables.

<table>
<thead>
<tr>
<th>ID</th>
<th>ID code for subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgeCohort</td>
<td>Age group (0-5, 6-12, 13-17, 18-21, 22-50, 50+)</td>
</tr>
<tr>
<td>Age</td>
<td>Age in years</td>
</tr>
<tr>
<td>Expenditures</td>
<td>Annual expenditures in dollars</td>
</tr>
<tr>
<td>Ethnicity</td>
<td>Ethnic group</td>
</tr>
</tbody>
</table>

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


Description

Difference between actual and scheduled arrival for a sample of United and Delta flights in December 2014.

Format

A dataset with 2000 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Airline</th>
<th>Delta or United</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difference</td>
<td>Difference (Actual - Scheduled arrival times)</td>
</tr>
</tbody>
</table>
Details

For a sample of 1000 December flights (in 2014) from each airline, we find the difference between actual and scheduled arrival times. A negative value indicates the flight arrived early.

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=On-Time.

<table>
<thead>
<tr>
<th>Digits</th>
<th>Digit Counts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 its owner? no or yes
```

**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**


---

**DrugResistance**

**Drug Resistance**

**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


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


---

**EducationLiteracy**  
*Education Literacy*

**Description**

Education spending and literacy rates for countries.

**Format**

A dataset with 188 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Country</th>
<th>Name of country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education</td>
<td>Education spending (as a percentage of GDP)</td>
</tr>
<tr>
<td>Literacy</td>
<td>Literacy rate</td>
</tr>
</tbody>
</table>

**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).

**Source**

Most recent data (as of 2015) for each country obtained from worldbank.org and http://www.knoema.com

---

**ElectionMargin**  
*Election Margin*

**Description**

Approval rating and election margin for recent presidential elections

**Format**

A dataset with 12 observations on the following 5 variables.

<table>
<thead>
<tr>
<th>Year</th>
<th>Certain election years from 1940-2012</th>
</tr>
</thead>
</table>
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


Description

Approval rating and election margin for recent presidential elections

Format

A data frame with 11 observations on the following 5 variables.

<table>
<thead>
<tr>
<th>Year</th>
<th>Certain election years from 1940-2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidate</td>
<td>Incumbent US president</td>
</tr>
<tr>
<td>Approval</td>
<td>Presidential approval rating at time of election</td>
</tr>
<tr>
<td>Margin</td>
<td>Margin of victory/defeat (as a percentage)</td>
</tr>
<tr>
<td>Result</td>
<td>Outcome of the election for the incumbent: Lost or Won</td>
</tr>
</tbody>
</table>

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.

**From 1e - dataset has been updated for 2e**

Source

Description

Employed individuals from the American Community Survey (ACS) dataset

Format

A dataset with 431 observations on the following 9 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td>0=female and 1=male</td>
</tr>
<tr>
<td>Age</td>
<td>Age (years)</td>
</tr>
<tr>
<td>Married</td>
<td>0=not married and 1=married</td>
</tr>
<tr>
<td>Income</td>
<td>Wages and salary for the past 12 months (in $1,000’s)</td>
</tr>
<tr>
<td>HoursWk</td>
<td>Hours of work per week</td>
</tr>
<tr>
<td>Race</td>
<td>asian, black, white, or other</td>
</tr>
<tr>
<td>USCitizen</td>
<td>1=citizen and 0=noncitizen</td>
</tr>
<tr>
<td>HealthInsurance</td>
<td>1=have health insurance and 0= no health insurance</td>
</tr>
<tr>
<td>Language</td>
<td>1=native English speaker and 0=other</td>
</tr>
</tbody>
</table>

Details

This is a subset of the ACS dataset including only 431 individuals who were employed.

Source

The full public dataset can be downloaded at
http://www.census.gov/acs/www/data documentation/pums data/, and the full list of variables are at

Description

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

Format

A dataset with 50 observations on the following 7 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year</td>
<td>Year in school (1=First year,..., 4=Senior)</td>
</tr>
<tr>
<td>Gender</td>
<td>F or M</td>
</tr>
</tbody>
</table>
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, gender, pulse rate, and number of body piercings.

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.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMdensity</td>
<td>Normalized z-scores of grey matter density in certain brain regions</td>
</tr>
<tr>
<td>FBfriends</td>
<td>Number of friends on Facebook</td>
</tr>
</tbody>
</table>

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
**FatMice18**

**Fat Mice 18**

**Description**

Weight gain for mice with different nighttime light conditions

**Format**

A dataset with 18 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Light</th>
<th>Light treatment: LD= normal light/dark cycle OR LL=bright light at night</th>
</tr>
</thead>
<tbody>
<tr>
<td>WgtGain4</td>
<td>Weight gain (grams over a four week period)</td>
</tr>
</tbody>
</table>

**Details**

This is a subset of the LightatNight dataset, showing body mass gain in mice after 4 weeks for two of the treatment conditions: a normal light/dark cycle (LD) or a bright light at night (LL).

**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.

---

**FireAnts**

**Fire Ants**

**Description**

Reactions of lizards to the presence of fire ants.

**Format**

A dataset with 80 observations on the following 3 variables.

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

**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
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


---

<table>
<thead>
<tr>
<th>FisherIris</th>
<th>Fisher's Iris Data</th>
</tr>
</thead>
</table>

Description

Measurements of three iris species

Format

A dataset with 150 observations on the following 5 variables.

<table>
<thead>
<tr>
<th>Type</th>
<th>Species of iris, Setosa, Virginica, or Versicolor</th>
</tr>
</thead>
<tbody>
<tr>
<td>PetalLength</td>
<td>Petal length in mm.</td>
</tr>
<tr>
<td>PetalWidth</td>
<td>Petal width in mm.</td>
</tr>
<tr>
<td>SepalLength</td>
<td>Sepal length in mm.</td>
</tr>
<tr>
<td>SepalWidth</td>
<td>Sepal width in mm.</td>
</tr>
</tbody>
</table>

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


---

<table>
<thead>
<tr>
<th>FishGills12</th>
<th>Fish Respiration and Calcium - Full Data</th>
</tr>
</thead>
</table>

**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.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium</td>
<td>Amount of calcium in the water (mg/L)</td>
</tr>
<tr>
<td>GillRate</td>
<td>Respiration rate (beats per minute)</td>
</tr>
</tbody>
</table>

**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.

---

**Description**

Respiration rate for fish in three levels of calcium.

**Format**

A dataset with 90 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium</td>
<td>Level of calcium Low 0.71 mg/L, Medium 5.24 mg/L, or High 18.24 mg/L</td>
</tr>
<tr>
<td>GillRate</td>
<td>Respiration rate (beats per minute)</td>
</tr>
</tbody>
</table>

**Details**

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

**Source**

Thanks to Prof. Brad Baldwin for supplying the data.
### Flight179  
*Flight times*

**Description**

Flight times for Flight 179 (Boston-SF) and Flight 180 (SF-Boston).

**Format**

A dataset with 36 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Date</th>
<th>Date of the flight (5th, 15th and 25th of each month in 2010)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flight179</td>
<td>Flying time (Boston-SF) in minutes</td>
</tr>
<tr>
<td>Flight180</td>
<td>Flying time (SF-Boston) in minutes</td>
</tr>
</tbody>
</table>

**Details**

United Airlines Flight 179 was a daily flight from Boston to San Francisco. Flight 180 goes in the other direction (SF to Boston). The data show the airborne flying times for each flight on the three dates each month (5th, 15th and 25th) in 2010.

**In first edition, but not in 2e - replaced by Flight433**

**Source**

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

---

### Flight433  
*Flight 433*

**Description**

Flight times for Flight 433 (Boston-SF) in January 2016.

**Format**

A dataset with 31 observations on the following 1 variable.

<table>
<thead>
<tr>
<th>Airtime</th>
<th>Airborne flying time (in minutes) for Flight 433, Boston to San Francisco</th>
</tr>
</thead>
</table>
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 2016.
** New to second edition, replaces Flight179 **

Source

Data collected from the Bureau of Transportation Statistics website at

---

Description

Water quality measurements for a sample of lakes in Florida

Format

A dataset with 53 observations on the following 12 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>An identifying number for each lake</td>
</tr>
<tr>
<td>Lake</td>
<td>Name of the lake</td>
</tr>
<tr>
<td>Alkalinity</td>
<td>Concentration of calcium carbonate (in mg/L)</td>
</tr>
<tr>
<td>pH</td>
<td>Acidity</td>
</tr>
<tr>
<td>Calcium</td>
<td>Amount of calcium in water</td>
</tr>
<tr>
<td>Chlorophyll</td>
<td>Amount of chlorophyll in water</td>
</tr>
<tr>
<td>AvgMercury</td>
<td>Average mercury level for a sample of fish (large mouth bass) from each lake</td>
</tr>
<tr>
<td>NumSamples</td>
<td>Number of fish sampled at each lake</td>
</tr>
<tr>
<td>MinMercury</td>
<td>Minimum mercury level in a sampled fish</td>
</tr>
<tr>
<td>MaxMercury</td>
<td>Maximum mercury level in a sampled fish</td>
</tr>
<tr>
<td>ThreeYrStdMercury</td>
<td>Adjusted mercury level to account for the age of the fish</td>
</tr>
<tr>
<td>AgeData</td>
<td>Mean age of fish in each sample</td>
</tr>
</tbody>
</table>

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

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.

<table>
<thead>
<tr>
<th>Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>No football, FBNoConcuss=football player but no concussions,</td>
</tr>
<tr>
<td></td>
<td>or FBConcuss=football player with concussion history</td>
</tr>
<tr>
<td>Hipp</td>
<td>Total hippocampus volume, in microL</td>
</tr>
<tr>
<td>LeftHipp</td>
<td>Left hippocampus volume, in microL</td>
</tr>
<tr>
<td>Years</td>
<td>Number of years playing football</td>
</tr>
<tr>
<td>Cognition</td>
<td>Cognitive testing composite reaction time score, given as a percentile</td>
</tr>
</tbody>
</table>

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


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.
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


---

GlobalInternet

Global Internet Usage

Description

Internet usage for several countries

Format

A dataset with 9 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Country</th>
<th>Name of country</th>
</tr>
</thead>
<tbody>
<tr>
<td>PercentFastConnection</td>
<td>Percent of internet users with a fast connection</td>
</tr>
<tr>
<td>HoursOnline</td>
<td>Average number of hours online in February 2011</td>
</tr>
</tbody>
</table>

Details

The Nielsen Company measured connection speeds on home computers in nine different countries. Variables include the percent of internet users with a fast connection (defined as 2Mb/sec or faster) and the average amount of time spent online, defined as total hours connected to the web from a home computer during the month of February 2011.

Source

NielsenWire, "Swiss Lead in Speed: Comparing Global Internet Connections", April 1, 2011
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
- GenderCode: 0=female or 1=male

Details

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

Source

A first day survey over several different introductory statistics classes.

Description

Game log data for the Golden State Warriors basketball team in 2015-2016

Format

A dataset with 82 observations on the following 33 variables.

- Game: ID number for each game
- Date: Date the game was played
- Location: Away or Home
- Opp: Opponent team
- Win: Game result: L or W
- FG: Field goals made
- FGA: Field goals attempted
**Details**

Information from online boxscores for all 82 regular season games played by the Golden State Warriors basketball team during the 2015-2016 season.

**Updated for second edition (original was Miami Heat dataset in 1e)**

**Source**

Data for the 2015-2016 Golden State games downloaded from


---

**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
Data downloaded from http://www.happyplanetindex.org/data/

HeightData

Description
Heights measured for the same 94 children over 18 years.

Format
A dataset with 94 observations on the following 33 variables.

<table>
<thead>
<tr>
<th>ID</th>
<th>Identification number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td>M or F</td>
</tr>
<tr>
<td>Year_1</td>
<td>Height (in cm.) at age 1 year</td>
</tr>
<tr>
<td>Year_1.25</td>
<td>Height (in cm.) at age 1.25 years</td>
</tr>
<tr>
<td>Year_1.5</td>
<td>Height (in cm.) at age 1.5 years</td>
</tr>
<tr>
<td>Year_1.75</td>
<td>Height (in cm.) at age 1.75 years</td>
</tr>
<tr>
<td>Year_2</td>
<td>Height (in cm.) at age 2 years</td>
</tr>
<tr>
<td>Year_3</td>
<td>Height (in cm.) at age 3 years</td>
</tr>
<tr>
<td>Year_4</td>
<td>Height (in cm.) at age 4 years</td>
</tr>
<tr>
<td>Year_5</td>
<td>Height (in cm.) at age 5 years</td>
</tr>
<tr>
<td>Year_17.5</td>
<td>Height (in cm.) at age 17.5 years</td>
</tr>
<tr>
<td>Year_18</td>
<td>Height (in cm.) at age 18 years</td>
</tr>
</tbody>
</table>

See below for full list of years...
**HollywoodMovies**

**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**


---

**HockeyPenalties**

**Hockey Penalties**

**Description**

Penalty minutes (per game) for NHL teams in 2010-11

**Format**

A dataset with 30 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Team</th>
<th>Name of the team</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIMperG</td>
<td>Average penalty minutes per game</td>
</tr>
</tbody>
</table>

**Details**

Data give the average number of penalty minutes for each of the 30 National Hockey League (NHL) teams during the 2010-11 regular season.

**Source**

Data obtained online at www.nhl.com

---

**HollywoodMovies**

**Hollywood Movies**

**Description**

Data on movies released in Hollywood between 2007 and 2013

**Format**

A dataset with 970 observations on the following 16 variables.
HollywoodMovies2011

<table>
<thead>
<tr>
<th>Movie</th>
<th>Title of movie</th>
</tr>
</thead>
<tbody>
<tr>
<td>LeadStudio</td>
<td>Studio that released the movie</td>
</tr>
<tr>
<td>RottenTomatoes</td>
<td>Rotten Tomatoes rating (reviewers)</td>
</tr>
<tr>
<td>AudienceScore</td>
<td>Audience rating (via Rotten Tomatoes)</td>
</tr>
<tr>
<td>Story</td>
<td>General theme - one of 21 themes</td>
</tr>
<tr>
<td>Genre</td>
<td>One of 14 possible genres</td>
</tr>
<tr>
<td>TheatersOpenWeek</td>
<td>Number of screens for opening weekend</td>
</tr>
<tr>
<td>OpeningWeekend</td>
<td>Opening weekend gross (in $ millions)</td>
</tr>
<tr>
<td>BOAverageOpenWeek</td>
<td>Average opening week box office income (per theater)</td>
</tr>
<tr>
<td>DomesticGross</td>
<td>Gross income for domestic viewers (in $ millions)</td>
</tr>
<tr>
<td>ForeignGross</td>
<td>Gross income for foreign viewers (in $ millions)</td>
</tr>
<tr>
<td>WorldGross</td>
<td>Gross income for all viewers (in $ millions)</td>
</tr>
<tr>
<td>Budget</td>
<td>Production budget (in $ millions)</td>
</tr>
<tr>
<td>Profitability</td>
<td>WorldGross as a percentage of Budget</td>
</tr>
<tr>
<td>OpenProfit</td>
<td>Percentage of budget recovered on opening weekend</td>
</tr>
<tr>
<td>Year</td>
<td>Year the movie was released</td>
</tr>
</tbody>
</table>

Details


** This dataset is updated from an earlier version (HollywoodMovies2011) **

Source

McCandless, D., "Most Profitable Hollywood Movies" from "Information is Beautiful" at
http://www.informationisbeautiful.net/data/ and


Description

Data on movies released in Hollywood in 2011

Format

A dataset with 136 observations on the following 14 variables.

<table>
<thead>
<tr>
<th>Movie</th>
<th>Title of movie</th>
</tr>
</thead>
<tbody>
<tr>
<td>LeadStudio</td>
<td>Studio that released the movie</td>
</tr>
<tr>
<td>RottenTomatoes</td>
<td>Rotten Tomatoes rating (reviewers)</td>
</tr>
<tr>
<td>AudienceScore</td>
<td>Audience rating (via Rotten Tomatoes)</td>
</tr>
<tr>
<td>Story</td>
<td>General theme - one of 21 themes</td>
</tr>
<tr>
<td>Genre</td>
<td>Action Adventure Animation Comedy Drama Fantasy Horror Romance Thriller</td>
</tr>
<tr>
<td>TheatersOpenWeek</td>
<td>Number of screens for opening weekend</td>
</tr>
</tbody>
</table>
HomesForSale

BOAverageOpenWeek  Average opening week box office income (per theater)
DomesticGross      Gross income for domestic viewers (in $ millions)
ForeignGross       Gross income for foreign viewers (in $ millions)
WorldGross         Gross income for all viewers (in $ millions)
Budget             Production budget (in $ millions)
Profitability      WorldGross as a percentage of Budget
OpeningWeekend     Opening weekend gross (in $ millions)

Details

** This dataset has been updated for 2e with more years of data (in HollywoodMovies) **

Source


HomesForSale  Home for Sale

Description

Data on homes for sale in four states

Format

A dataset with 120 observations on the following 5 variables.

State  Location of the home: CA NJ NY 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.

Source

Description

Data for a sample of homes offered for sale in California

Format

A dataset with 30 observations on the following 5 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Location of the home: CA</td>
</tr>
<tr>
<td>Price</td>
<td>Asking price (in $1,000's)</td>
</tr>
<tr>
<td>Size</td>
<td>Area of all rooms (in 1,000's sq. ft.)</td>
</tr>
<tr>
<td>Beds</td>
<td>Number of bedrooms</td>
</tr>
<tr>
<td>Baths</td>
<td>Number of bathrooms</td>
</tr>
</tbody>
</table>

Details

Data for samples of homes for sale in California, selected from zillow.com.

Source


Description

Prices of homes for sale in Canton, NY

Format

A dataset with 10 observations on the following variable.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>Asking price for the home (in $1,000's)</td>
</tr>
</tbody>
</table>

Details

Data for samples of homes for sale in Canton, NY, selected from zillow.com.
Honeybee

Source

---

HomesForSaleNY  Home for Sale in New York

Description
Data for a sample of homes offered for sale in New York State

Format
A dataset with 30 observations on the following 5 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Location of the home: NY</td>
</tr>
<tr>
<td>Price</td>
<td>Asking price (in $1,000’s)</td>
</tr>
<tr>
<td>Size</td>
<td>Area of all rooms (in 1,000’s sq. ft.)</td>
</tr>
<tr>
<td>Beds</td>
<td>Number of bedrooms</td>
</tr>
<tr>
<td>Baths</td>
<td>Number of bathrooms</td>
</tr>
</tbody>
</table>

Details
Data for samples of homes for sale in New York, selected from zillow.com.

Source

---

Honeybee  Honeybee Colonies

Description
Number of honeybee colonies (1995-2012)

Format
A dataset with 18 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year</td>
<td>Year</td>
</tr>
<tr>
<td>Colonies</td>
<td>Estimated number of honeybee colonies in the US (in thousands)</td>
</tr>
</tbody>
</table>
Details

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

Source


Honeybee Circuits

Description

Number of circuits for honeybee dances and nest quality

Format

A dataset with 78 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuits</td>
<td>Number of waggle dance circuits for a returning scout bee</td>
</tr>
<tr>
<td>Quality</td>
<td>Quality of the nest site: High or Low</td>
</tr>
</tbody>
</table>

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


Honeybee Waggle

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


---

HotDogs

Hot Dog Eating Contest

Description

Winning number of hot dogs consumed in an eating contest

Format

A dataset with 14 observations on the following 2 variables.

Year Year of the contest: 2002-2015
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 2002-2015.

** Data set updated for 2e (original is now HotDogs1e) **

Source

Downloaded from https://en.wikipedia.org/wiki/Nathan's_Hot_Dog_Eating_Contest
**HotDog Eating Contest**

**Description**

Winning number of hot dogs consumed in an eating contest

**Format**

A dataset with 10 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Year</th>
<th>Year of the contest: 2002-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>HotDogs</td>
<td>Winning number of hot dogs consumed</td>
</tr>
</tbody>
</table>

**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 2002-2011.

**Source**

Downloaded from [https://en.wikipedia.org/wiki/Nathan’s_Hot_Dog_Eating_Contest](https://en.wikipedia.org/wiki/Nathan’s_Hot_Dog_Eating_Contest)

---

**Housing Starts**

**Description**

Quarterly housing starts in the United States from 2000-2015

**Format**

A dataset with 64 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Year</th>
<th>Year (2000 to 2015)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarter</td>
<td>Q1=Jan-Mar, Q2=Apr-June, Q3=July-Sept, Q4=Oct-Dec</td>
</tr>
<tr>
<td>Houses</td>
<td>New US residential house construction starts (in thousands)</td>
</tr>
</tbody>
</table>

**Details**

Number of new homes started in the US for each quarter from 2000-2015.
ICUAdmissions

Source
Census.gov website https://www.census.gov/econ/currentdata/
https://www.census.gov/econ/currentdata/dbsearch?program=RESCONST&startYear=2000 &endYear=2016&categories=5

Hurricanes

Description
Hurricanes making landfall on the US east coast each year (1914-2014)

Format
A dataset with 64 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Year (1914 to 2014)</th>
<th>Hurricanes</th>
<th>Number of hurricanes making landfall on US East coast</th>
</tr>
</thead>
</table>

Details
Number of hurricanes making landfall on the East coast of the United States - yearly 1914-2014

Source

ICUAdmissions

Description
Data from patients admitted to an intensive care unit

Format
A dataset with 200 observations on the following 21 variables.

<table>
<thead>
<tr>
<th>ID</th>
<th>Patient ID number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Patient status: 0=lived or 1=died</td>
</tr>
<tr>
<td>Age</td>
<td>Patient’s age (in years)</td>
</tr>
<tr>
<td>Sex</td>
<td>0=male or 1=female</td>
</tr>
<tr>
<td>Race</td>
<td>Patient’s race: 1=white, 2=black, or 3=other</td>
</tr>
<tr>
<td>Service</td>
<td>Type of service: 0=medical or 1=surgical</td>
</tr>
<tr>
<td>Cancer</td>
<td>Is cancer involved? 0=no or 1=yes</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Renal</td>
<td>Is chronic renal failure involved? 0=no or 1=yes</td>
</tr>
<tr>
<td>Infection</td>
<td>Is infection involved? 0=no or 1=yes</td>
</tr>
<tr>
<td>CPR</td>
<td>Patient gets CPR prior to admission? 0=no or 1=yes</td>
</tr>
<tr>
<td>Systolic</td>
<td>Systolic blood pressure (in mm of Hg)</td>
</tr>
<tr>
<td>HeartRate</td>
<td>Pulse rate (beats per minute)</td>
</tr>
<tr>
<td>Previous</td>
<td>Previous admission to ICU within 6 months? 0=no or 1=yes</td>
</tr>
<tr>
<td>Type</td>
<td>Admission type: 0=elective or 1=emergency</td>
</tr>
<tr>
<td>Fracture</td>
<td>Fractured bone involved? 0=no or 1=yes</td>
</tr>
<tr>
<td>PO2</td>
<td>Partial oxygen level from blood gases under 60? 0=no or 1=yes</td>
</tr>
<tr>
<td>PH</td>
<td>pH from blood gas under 7.25? 0=no or 1=yes</td>
</tr>
<tr>
<td>PCO2</td>
<td>Partial carbon dioxide level from blood gas over 45? 0=no or 1=yes</td>
</tr>
<tr>
<td>Bicarbonate</td>
<td>Bicarbonate from blood gas under 18? 0=no or 1=yes</td>
</tr>
<tr>
<td>Creatinine</td>
<td>Creatinine from blood gas over 2.0? 0=no or 1=yes</td>
</tr>
<tr>
<td>Consciousness</td>
<td>Level: 0=conscious, 1=deep stupor, or 2=coma</td>
</tr>
</tbody>
</table>

**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](http://lib.stat.cmu.edu/DASL/Datafiles/ICU.html)

---

**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**


---

**InkjetPrinters**

**Inkjet Printers**

**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**

**Description**

Yearly US life expectancy and number of registered vehicles (1970-2013)

**Format**

A dataset with 44 observations on the following 3 variables.

- **Year**: Year
LifeExpectancyVehicles1e

<table>
<thead>
<tr>
<th>LifeExpectancyVehicles</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Life expectancy (in years for babies born each year) and number of vehicles registered in the US for each year from 1970 to 2013. ** This dataset is updated from an earlier version (now LifeExpectancyVehicles1e) **</td>
<td></td>
</tr>
</tbody>
</table>

Source

Vehicle registrations from US Census Bureau, [http://www.census.gov/compendia/statab/cats/transportation.html](http://www.census.gov/compendia/statab/cats/transportation.html)
Lifetime data from the Centers for Disease Control and Prevention, National Center for Health Statistics, Health Data Interactive, [www.cdc.gov/nchs/hdi.htm](http://www.cdc.gov/nchs/hdi.htm)

---

**Description**


**Format**

A dataset with 40 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Year</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>LifeExpectancyVehicles</td>
<td>Average life expectancy (in years) for babies born in the year</td>
</tr>
<tr>
<td>Number of motor vehicles registered in the US (in millions)</td>
<td></td>
</tr>
</tbody>
</table>

**Details**

Life expectancy (in years for babies born each year) and number of vehicles registered in the US for each year from 1970 to 2009. ** From 1e - dataset has been updated for 2e **

**Source**

Vehicle registrations from US Census Bureau, [http://www.census.gov/compendia/statab/cats/transportation.html](http://www.census.gov/compendia/statab/cats/transportation.html)
Lifetime data from the Centers for Disease Control and Prevention, National Center for Health Statistics, Health Data Interactive, [www.cdc.gov/nchs/hdi.htm](http://www.cdc.gov/nchs/hdi.htm)
**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.

---

**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**
  - D=dim light at night, L=D=dark at night, or LL=bright light at night
- **BMGain**
  - Body mass gain (in grams over a four week period)
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.

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.

<table>
<thead>
<tr>
<th>Team name</th>
<th>Score reflecting the &quot;malevolence&quot; of a team’s uniform</th>
<th>Z-score for penalty yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFLTeam</td>
<td>NFL_Malevolence</td>
<td>ZPenYds</td>
</tr>
</tbody>
</table>

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

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.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHLTeam</td>
<td>Team name</td>
</tr>
<tr>
<td>NHL_Malevolence</td>
<td>Score reflecting the &quot;malevolence&quot; of a team’s uniform</td>
</tr>
<tr>
<td>ZPenMin</td>
<td>Z-score for penalty minutes</td>
</tr>
</tbody>
</table>

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

MammalLongevity  Mammal Longevity

Description
Longevity and gestation period for mammals

Format
A dataset with 40 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal</td>
<td>Species of mammal</td>
</tr>
<tr>
<td>Gestation</td>
<td>Time from fertilization until birth (in days)</td>
</tr>
<tr>
<td>Longevity</td>
<td>Average lifespan (in years)</td>
</tr>
</tbody>
</table>
MarriageAges

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

Source

ManhattanApartments  Manhattan Apartment Prices

Description
Monthly rent for one-bedroom apartments in Manhattan, NY

Format
A dataset 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 July, 2011.

Source
Apartments advertised on Craig’s List at newyork.craigslist.org, July 5, 2011.

MarriageAges  Marriage Ages

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   |
**MateChoice**

**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**

*Masters Golf Scores*

**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**


---

**MateChoice**

*Fruitfly Survival - by Mate Choice*

**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


---

Mental Muscle

Description

Comparing actual movements to mental imaging movements

Format

A dataset with 32 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Treatment: Actual motions or Mental imaging motions</td>
</tr>
<tr>
<td>PreFatigue</td>
<td>Time (in seconds) to complete motions before fatigue</td>
</tr>
<tr>
<td>PostFatigue</td>
<td>Time (in seconds) to complete motions after fatigue</td>
</tr>
</tbody>
</table>

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


---

Miami Heat Basketball

Miami Heat Basketball
Description

Game log data for the Miami Heat basketball team in 2010-11

Format

A dataset with 82 observations on the following 33 variables.

- Game: ID number for each game
- Date: Date the game was played
- Location: Away or Home
- Opp: Opponent team
- Win: Game result: L or W
- 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
- Points: Number of 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
- OppOffReb: Opponent’s Offensive rebounds
- OppRebounds: Opponent’s Total rebounds
- OppAssists: Opponent’s assists
- OppSteals: Opponent’s steals
- OppBlocks: Opponent’s shots blocked
- OppTurnovers: Opponent’s turnovers
- OppFouls: Opponent’s fouls
- OppPoints: Opponent’s points scored

Details

Information from online boxscores for all 82 regular season games played by the Miami Heat basketball team during the 2010-11 season.

** This is from the first edition, updated in second edition to GSWarriors dataset **
Source

Data for the 2010-11 Miami games downloaded from

Description

Data from a study of perceived exercise with maids

Format

A dataset with 75 observations on the following 14 variables.

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

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

MustangPrices  Mustang Prices

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

Format
A dataset with 25 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Age</th>
<th>Age of the car (in years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miles</td>
<td>Mileage on the car (in 1,000's)</td>
</tr>
<tr>
<td>Price</td>
<td>Asking price (in $1,000's)</td>
</tr>
</tbody>
</table>

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.

NBAPlayers2011  NBA Players Data for 2010-11 Season

Description
Data from the 2010-2011 regular season for 176 NBA basketball players.

Format
A dataset with 176 observations on the following 25 variables.

<table>
<thead>
<tr>
<th>Player</th>
<th>Name of player</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>Age (in years)</td>
</tr>
<tr>
<td>Team</td>
<td>Team name</td>
</tr>
<tr>
<td>Games</td>
<td>Games played (out of 82)</td>
</tr>
<tr>
<td>Starts</td>
<td>Games started</td>
</tr>
<tr>
<td>Mins</td>
<td>Minutes played</td>
</tr>
<tr>
<td>MinPerGame</td>
<td>Minutes per game</td>
</tr>
<tr>
<td>FGMade</td>
<td>Field goals made</td>
</tr>
<tr>
<td>FGAttempt</td>
<td>Field goals attempted</td>
</tr>
</tbody>
</table>
Details

Data for 176 NBA basketball players from the 2010-2011 regular season. Includes all players who averaged more than 24 minutes per game.
** From 1e - dataset has been updated (in NBAPlayers2015) for 2e **

Source


---

NBA Players Data for 2014-15 Season

Description

Data from the 2014-2015 regular season for 182 NBA basketball players.

Format

A dataset with 182 observations on the following 25 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>player</td>
<td>Name of player</td>
</tr>
<tr>
<td>position</td>
<td>PG=point guard, SG=shooting guard, PF=power forward, SF=small forward, C=center</td>
</tr>
<tr>
<td>age</td>
<td>Age (in years)</td>
</tr>
<tr>
<td>team</td>
<td>Team name</td>
</tr>
<tr>
<td>games</td>
<td>Games played (out of 82)</td>
</tr>
<tr>
<td>starts</td>
<td>Games started</td>
</tr>
<tr>
<td>mins</td>
<td>Minutes played</td>
</tr>
<tr>
<td>minpergame</td>
<td>Minutes per game</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field goal percentage</th>
<th>FGPct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three-point field goals made</td>
<td>FG3Made</td>
</tr>
<tr>
<td>Three-point field goals attempted</td>
<td>FG3Attempt</td>
</tr>
<tr>
<td>Three-point field goal percentage</td>
<td>FG3Pct</td>
</tr>
<tr>
<td>Free throws made</td>
<td>FTMade</td>
</tr>
<tr>
<td>Free throws attempted</td>
<td>FTAtempt</td>
</tr>
<tr>
<td>Free throw percentage</td>
<td>FTPct</td>
</tr>
<tr>
<td>Offensive rebounds</td>
<td>OffRebound</td>
</tr>
<tr>
<td>Defensive rebounds</td>
<td>DefRebound</td>
</tr>
<tr>
<td>Total rebounds</td>
<td>Rebounds</td>
</tr>
<tr>
<td>Number of assists</td>
<td>Assists</td>
</tr>
<tr>
<td>Number of steals</td>
<td>Steals</td>
</tr>
<tr>
<td>Number of blocked shots</td>
<td>Blocks</td>
</tr>
<tr>
<td>Number of turnovers</td>
<td>Turnovers</td>
</tr>
<tr>
<td>Number of personal fouls</td>
<td>Fouls</td>
</tr>
<tr>
<td>Number of points scored</td>
<td>Points</td>
</tr>
</tbody>
</table>
Details

Data for 182 NBA basketball players from the 2014-2015 regular season. Includes all players who averaged more than 24 minutes per game that season.

** Data set updated for 2e (original is NBAPlayers2011) **

Source

Details

Won-Loss record and regular season statistics for 30 teams in the National Basketball Association for the 2010-2011 season.
** From 1e - dataset has been updated (in NBAStandings2016) for 2e **

Source


---

NBAStandings2016  NBA 2015-2016 Regular Season Standings

Description

Won-Loss record and statistics for NBA Teams in 2015-2016

Format

A dataset with 30 observations on the following 6 variables.

<table>
<thead>
<tr>
<th>Team</th>
<th>Team name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wins</td>
<td>Number of wins in an 82 game regular season</td>
</tr>
<tr>
<td>Losses</td>
<td>Number of losses</td>
</tr>
<tr>
<td>WinPct</td>
<td>Proportion of games won</td>
</tr>
<tr>
<td>PtsFor</td>
<td>Average points scored per game</td>
</tr>
<tr>
<td>PtsAgainst</td>
<td>Average points allowed per game</td>
</tr>
</tbody>
</table>

Details

Won-Loss record and regular season statistics for 30 teams in the National Basketball Association for the 2015-2016 season.
** Data set updated for 2e (original is NBAStandings1e) **

Source


---

NFLContracts2015  NFL Contracts in 2015

Description

Dollar size of contracts for all NFL players in 2015
Format

A dataset with 2099 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 2015 season

Details

This dataset contains salary information for all National Football League (NFL) players under contract for the 2015 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 2015 season. All amounts are in millions of dollars.

Source


---

**NFLPreSeason**

| Wins for NFL Teams (2005-2014) |

Description

Number of preseason and regular season wins for NFL teams, each year from 2005 to 2014.

Format

A dataset with 320 observations on the following 4 variables.

- **Team**: Code for one of 32 NFL teams
- **Season**: Year between 2005 and 2014
- **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 ten year period from 2005 to 2014.

Source

NFLScores2011  

_**NFL Game Scores in 2011**_

**Description**

Results for all NFL games for the 2011 regular season

**Format**

A dataset 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 2011 season.

**Source**

NFL scores and game statistics found at


---

NutritionStudy  

_**Nutrition Study**_

**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)
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


Description

Times for all finishers in the men’s marathon at the 2012 Olympics

Format

A data frame with 85 observations on the following 4 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoke</td>
<td>Smoker? coded as No or Yes</td>
</tr>
<tr>
<td>Quetelet</td>
<td>Weight/(Height^2)</td>
</tr>
<tr>
<td>Vitamin</td>
<td>Vitamin use: coded as 1=Regularly, 2=Occasionally, or 3=No</td>
</tr>
<tr>
<td>Calories</td>
<td>Number of calories consumed per day</td>
</tr>
<tr>
<td>Fat</td>
<td>Grams of fat consumed per day</td>
</tr>
<tr>
<td>Fiber</td>
<td>Grams of fiber consumed per day</td>
</tr>
<tr>
<td>Alcohol</td>
<td>Number of alcoholic drinks consumed per week</td>
</tr>
<tr>
<td>Cholesterol</td>
<td>Cholesterol consumed (mg per day)</td>
</tr>
<tr>
<td>BetaDiet</td>
<td>Dietary beta-carotene consumed (mcg per day)</td>
</tr>
<tr>
<td>RetinolDiet</td>
<td>Dietary retinol consumed (mcg per day)</td>
</tr>
<tr>
<td>BetaPlasma</td>
<td>Plasma beta-carotene (ng/ml)</td>
</tr>
<tr>
<td>RetinolPlasma</td>
<td>Plasma retinol (ng/ml)</td>
</tr>
<tr>
<td>Gender</td>
<td>Coded as Female or Male</td>
</tr>
<tr>
<td>VitaminUse</td>
<td>Coded as No Occasional Regular</td>
</tr>
<tr>
<td>PriorSmoke</td>
<td>Smoking status: coded as 1=Never, 2=Former, or 3=Current</td>
</tr>
</tbody>
</table>

OlympicMarathon 2012 Olympic Men’s Marathon

Description

Times for all finishers in the men’s marathon at the 2012 Olympics

Format

A data frame with 85 observations on the following 4 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athlete</td>
<td>Name of marathoner</td>
</tr>
<tr>
<td>Country</td>
<td>Nationality of marathoner (3 letter country code)</td>
</tr>
<tr>
<td>Time</td>
<td>Time as H:MM:SS</td>
</tr>
<tr>
<td>Minutes</td>
<td>Time in minutes</td>
</tr>
</tbody>
</table>
Details

** This is an updated version (previous is now in OlympicMarathon1e) **

Source


OlympicMarathon1e 2008 Olympic Men’s Marathon

Description

Times for all finishers in the men’s marathon at the 2008 Olympics

Format

A data frame with 76 observations on the following 5 variables.

- Rank: Order of finish
- Athlete: Name of marathoner
- Nationality: Country of marathoner
- Time: Time as H:MM:SS
- Minutes: Time in minutes

Details

Results for all finishers in the 2008 Men’s Olympic marathon in Beijing, China.
** This 1e version has been updated for 2e **

Source


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


Description

Data for 24 players on the 2014-2105 Ottawa Senators NHL team

Format

A dataset with 24 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 2014-15 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 2014-15 NHL season.

** This is an updated version (previous version is now in OttawaSenators1e) **

Source


OttawaSenators1e  Ottawa Senators Hockey Team

Description

Data for 24 players on the 2009-10 Ottawa Senators

Format

A dataset with 24 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Points</th>
<th>Number of points (goals + assists) scored</th>
</tr>
</thead>
<tbody>
<tr>
<td>PenMins</td>
<td>Number of penalty minutes</td>
</tr>
</tbody>
</table>

Details

Points scored and penalty minutes for 24 players (excluding goalies) playing ice hockey for the Ottawa Senators during the 2009-10 NHL regular season.

** From 1e - dataset has been updated for 2e **

Source


PizzaGirl  Pizza Girl Tips

Description

Data on tips for pizza deliveries
Format

A dataset with 24 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Tip</th>
<th>Amount of tip (in dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shift</td>
<td>Data collected over three different shifts</td>
</tr>
</tbody>
</table>

Details

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

Source

Pizza Girl: Statistical Analysis at

---

*Quiz Pulse Rate*

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.

<table>
<thead>
<tr>
<th>Student</th>
<th>ID number for the student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiz</td>
<td>Pulse rate (beats per minute) during a quiz</td>
</tr>
<tr>
<td>Lecture</td>
<td>Pulse rate (beats per minute) during a lecture</td>
</tr>
</tbody>
</table>

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

---

Simulated proportions

RandomP50N200
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

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 | Retail Sales

Description

Monthly U.S. Retail Sales

Format

A dataset with 136 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Month</th>
<th>Month of the year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year</td>
<td>Years from 2000 to 2011</td>
</tr>
<tr>
<td>Sales</td>
<td>U.S. retail sales (in billions of dollars)</td>
</tr>
</tbody>
</table>

Details

Data show the monthly retail sales (in billions) for the U.S. economy in each month from January 2000 through April 2011.

Source

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

---

RockandRoll | Rock & Roll Hall of Fame

Description

Groups and Individuals in the Rock and Roll Hall of Fame

Format

A dataset with 303 observations on the following 4 variables.

<table>
<thead>
<tr>
<th>Inductee</th>
<th>Name of the group or individual</th>
</tr>
</thead>
<tbody>
<tr>
<td>FemaleMembers</td>
<td>Yes if individual or member of the group is female, otherwise No</td>
</tr>
<tr>
<td>Category</td>
<td>Type of individual or group: Performer, Non-performer, Early Influence, Lifetime Achievement, Sideman</td>
</tr>
<tr>
<td>People</td>
<td>Number of people in the group</td>
</tr>
</tbody>
</table>
Details

All inductees of the Rock & Roll Hall of Fame as of 2015.
** Data set updated for 2e (original is RockandRoll1e) **

Source


---

<table>
<thead>
<tr>
<th>RockandRoll1e</th>
<th>Rock &amp; Roll Hall of Fame</th>
</tr>
</thead>
</table>

Description

Groups and Individuals in the Rock and Roll Hall of Fame

Format

A dataset with 273 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: Performer, Non-performer, Early Influence, Lifetime Achievement, Sideman
- People: Number of people in the group

Details

All inductees of the Rock & Roll Hall of Fame as of 2012.
** From 1e - dataset has been updated for 2e **

Source


---

<table>
<thead>
<tr>
<th>SalaryGender</th>
<th>Salary and Gender</th>
</tr>
</thead>
</table>

Description

Salaries for college teachers

Format

A dataset with 100 observations on the following 4 variables.
SampCountries

Salary
Gender
Age
PhD

Annual salary in $1,000’s
0=female or 1=male
Age in years
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

SampCountries

Sample of Countries

Description

Data on a sample of fifty countries of the world (2014)

Format

A dataset with 50 observations on the following 25 variables.

Country
LandArea
Population
Density
GDP
Rural
CO2
PumpPrice
Military
Health
ArmedForces
Internet
Cell
HIV
Hunger
Diabetes
BirthRate
DeathRate
ElderlyPop
LifeExpectancy
Female Labor

Name of the country
Size in 1000 sq. kilometers
Population in millions
Number of people per square kilometer
Gross Domestic Product (in US$) per capita
Percentage of population living in rural areas
CO2 emissions (metric tons per capita)
Price for a liter of gasoline ($US)
Percentage of government expenditures directed toward the military
Percentage of government expenditures directed towards healthcare
Number of active duty military personnel (in 1,000’s)
Percentage of the population with access to the internet
Cell phone subscriptions (per 100 people)
Percentage of the population with HIV
Percent of the population considered undernourished
Percent of the population diagnosed with diabetes
Births per 1000 people
Deaths per 1000 people
Percentage of the population at least 65 years old
Average life expectancy (years)
Percent of females 15 - 64 in the labor force
Unemployment  Percent of labor force unemployed
Energy       Energy usage (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 2012-2014 to avoid many missing values in more recent years.
** Updated for 2e (Original is now SampCountries1e) **
Source

SampCountries1e  Sample of Countries - 1e

Description
Data on a sample of fifty countries of the world (2008)

Format
A dataset with 50 observations on the following 13 variables.

Country   Name of the country
LandArea  Size in sq. kilometers
Population Population in millions
Energy    Energy usage (kilotons of oil)
Rural     Percentage of population living in rural areas
Military  Percentage of government expenditures directed toward the military
Health    Percentage of government expenditures directed towards healthcare
HIV       Percentage of the population with HIV
Internet  Percentage of the population with access to the internet
Developed Categories for kilowatt hours per capita: 1= under 2500, 2=2500 to 5000, 3=over 5000
BirthRate Births per 1000 people
ElderlyPop Percentage of the population at least 65 years old
LifeExpectancy Average life expectancy (in years)

Details
A subset of data from AllCountries for a random sample of 50 countries in 2008.
** From 1e - dataset has been updated for 2e **
Source


S&P 500 Prices

Description

Daily data for S&P 500 Stock Index

Format

A dataset with 252 observations on the following 6 variables.

<table>
<thead>
<tr>
<th>Date</th>
<th>Trading date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open</td>
<td>Opening value</td>
</tr>
<tr>
<td>High</td>
<td>High point for the day</td>
</tr>
<tr>
<td>Low</td>
<td>Low point for the day</td>
</tr>
<tr>
<td>Close</td>
<td>Closing value</td>
</tr>
<tr>
<td>Volume</td>
<td>Shares traded (in millions)</td>
</tr>
</tbody>
</table>

Details


** Data set updated for 2e (original is SandP5001e) **

Source

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

S&P 500 Prices

Description

Daily data for S&P 500 Stock Index

Format

A dataset with 252 observations on the following 6 variables.

<table>
<thead>
<tr>
<th>Date</th>
<th>Trading date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open</td>
<td>Opening value</td>
</tr>
<tr>
<td>High</td>
<td>High point for the day</td>
</tr>
</tbody>
</table>
Details

Daily prices for the S&P 500 Stock Index for trading days in 2010.
** From 1e - dataset has been updated for 2e **

Source

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

<table>
<thead>
<tr>
<th>SandwichAnts</th>
<th>Sandwich Ants</th>
</tr>
</thead>
</table>

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
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.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butter</td>
<td>Butter on the sandwich? no or yes</td>
</tr>
<tr>
<td>Filling</td>
<td>Type of filling: Ham &amp; Pickles, Peanut Butter, or Vegemite</td>
</tr>
<tr>
<td>Bread</td>
<td>Type of bread: Multigrain, Rye, White, or Wholemeal</td>
</tr>
<tr>
<td>Ants</td>
<td>Number of ants on the sandwich</td>
</tr>
<tr>
<td>Order</td>
<td>Trial number</td>
</tr>
</tbody>
</table>

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
http://www.amstat.org/publications/jse/v2n1/mackisack.supp.html

SkateboardPrices  Skateboard Prices

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.

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.
Description

Data from a study of sleep patterns for college students.

Format

A dataset with 253 observations on the following 27 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>1=male, 0=female</td>
</tr>
<tr>
<td>ClassYear</td>
<td>Year in school, 1=first year, ...., 4=senior</td>
</tr>
<tr>
<td>LarkOwl</td>
<td>Early riser or night owl? Lark, Neither, or Owl</td>
</tr>
<tr>
<td>NumEarlyClass</td>
<td>Number of classes per week before 9 am</td>
</tr>
<tr>
<td>EarlyClass</td>
<td>Indicator for any early classes</td>
</tr>
<tr>
<td>GPA</td>
<td>Grade point average (0-4 scale)</td>
</tr>
<tr>
<td>ClassesMissed</td>
<td>Number of classes missed in a semester</td>
</tr>
<tr>
<td>CognitionZscore</td>
<td>Z-score on a test of cognitive skills</td>
</tr>
<tr>
<td>PoorSleepQuality</td>
<td>Measure of sleep quality (higher values are poorer sleep)</td>
</tr>
<tr>
<td>DepressionScore</td>
<td>Measure of degree of depression</td>
</tr>
<tr>
<td>AnxietyScore</td>
<td>Measure of amount of anxiety</td>
</tr>
<tr>
<td>StressScore</td>
<td>Measure of amount of stress</td>
</tr>
<tr>
<td>DepressionStatus</td>
<td>Coded depression score: normal, moderate, or severe</td>
</tr>
<tr>
<td>AnxietyStatus</td>
<td>Coded anxiety score: normal, moderate, or severe</td>
</tr>
<tr>
<td>Stress</td>
<td>Coded stress score: normal or high</td>
</tr>
<tr>
<td>DASScore</td>
<td>Combined score for depression, anxiety and stress</td>
</tr>
<tr>
<td>Happiness</td>
<td>Measure of degree of happiness</td>
</tr>
<tr>
<td>AlcoholUse</td>
<td>Self-reported: Abstain, Light, Moderate, or Heavy</td>
</tr>
<tr>
<td>Drinks</td>
<td>Number of alcoholic drinks per week</td>
</tr>
<tr>
<td>WeekdayBed</td>
<td>Average weekday bedtime (24.0=midnight)</td>
</tr>
<tr>
<td>WeekdayRise</td>
<td>Average weekday rise time (8.0=8 am)</td>
</tr>
<tr>
<td>WeekdaySleep</td>
<td>Average hours of sleep on weekdays</td>
</tr>
<tr>
<td>WeekendBed</td>
<td>Average weekend bedtime (24.0=midnight)</td>
</tr>
<tr>
<td>WeekendRise</td>
<td>Average weekend rise time (8.0=8 am)</td>
</tr>
<tr>
<td>WeekendSleep</td>
<td>Average weekend bedtime (24.0=midnight)</td>
</tr>
<tr>
<td>AverageSleep</td>
<td>Average hours of sleep for all days</td>
</tr>
<tr>
<td>AllNighter</td>
<td>Had an all-nighter this semester? 1=yes, 0=no</td>
</tr>
</tbody>
</table>

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.
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 on 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


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) |
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

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


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.

Description

Enrollments in Statistics PhD Programs
Format

A dataset with 82 observations on the following 3 variables.
<table>
<thead>
<tr>
<th>University</th>
<th>Name of the school</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Type of department: Biostatistics or Statistics</td>
</tr>
<tr>
<td>FTGradEnrollment</td>
<td>Full time graduate student enrollment</td>
</tr>
</tbody>
</table>

**Details**

Graduate student enrollments in Statistics and Biostatistics departments in 2009. The list does not include combined departments of mathematics and statistics and does not include departments that did not reply to the AMS survey.

**Source**

The full list of the 82 Group IV departments was obtained at http://www.ams.org/profession/data/annual-survey/group_iv. Data on enrollment were obtained primarily from Assistantships and Graduate Fellowships in the Mathematical Sciences, 2009, American Mathematical Society.

---

### Stock Changes

**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)

**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/

---

Story Spoilers
**Description**

Ratings for stories with and without spoilers

**Format**

A dataset with 12 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Story</th>
<th>ID for story</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spoiler</td>
<td>Average (0-10) rating for spoiler version</td>
</tr>
<tr>
<td>Original</td>
<td>Average (0-10) rating for original version</td>
</tr>
</tbody>
</table>

**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**


---

**Description**

Time in darkness for mice in different environments

**Format**

A dataset with 14 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Time</th>
<th>Time spent in darkness (in seconds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment</td>
<td>Type of environment: Enriched or Standard</td>
</tr>
</tbody>
</table>

**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**


---

**StudentSurvey**

*Student Survey Data*

**Description**

Data from a survey of students in introductory statistics courses

**Format**

A dataset with 362 observations on the following 17 variables.

- **Year**: Year in school
- **Gender**: Student’s gender: F or M
- **Smoke**: Smoker? No or Yes
- **Award**: Preferred award: Academy Nobel 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 score
- **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.

**Source**

In-class student survey
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 Synchronization + 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
- **PainTolDiff**: 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


Ten Countries

Description

A subset of the AllCountries data for a random sample of ten countries
Format
A dataset 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 2e (original is now TenCountries1e) **

Source
**Textbook Costs**

**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, Natural Science, or Social Science
- **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

---

**Toenail Arsenic**

**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


TrafficFlow

Description

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

Format

A dataset with 24 observations on the following 3 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timed</td>
<td>Delay time (in minutes) for fixed timed lights</td>
</tr>
<tr>
<td>Flexible</td>
<td>Delay time (in minutes) for flexible communicating lights</td>
</tr>
<tr>
<td>Difference</td>
<td>Difference (Timed-Flexible) for each simulation</td>
</tr>
</tbody>
</table>

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

Description

Various data for all 50 US States in 2014.

Format

A dataset with 50 observations on the following 22 variables.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>State name</td>
</tr>
</tbody>
</table>
### Household Income
Median household income (in $1,000's)

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

### Population
Number of residents (in millions for 2014)

### Eighth Grade Math
Average score NAEP mathematics for 8th-grade students (2013)

### High School
Percent of residents (ages 25-34) who are high school graduates

### College
Percent 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 in 2013)

### Vegetables
Percent of residents eating vegetables at least once per day

### Fruit
Percent of residents eating fruit at least once per day

### Smokers
Percent of residents who smoke

### Physical Activity
Percent who do 150+ minutes of aerobic physical activity per week

### Obese
Percent of residents (BMI 30+)

### Non White
Percent nonwhite residents (in 2013)

### Heavy Drinkers
Percent heavy drinkers (men: 3+ drinks/day, women 2+ drinks/day)

### Electoral
Number of state votes in the presidential electoral college

### Obama Vote
Proportion of votes for Obama in 2012 presidential election

### Obama Romney
State winner in 2012 presidential election (O=Obama, R=Romney)

### Two Parents
Percent of children living in two-parent households

### Student Spending
School spending (in $1,000 per pupil in 2013)

### Insured
Percent of adults (ages 18-64) who have any kind of health coverage

### Details
Information from each of the 50 states of the United States (from 2013 or 2014).
** Updated for 2e (original is now USStates1e) **

### Source
U.S. Census Bureau, 2009-2013 5-Year American Community Survey
http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_13_5YR_DP03&src=pt
http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_13_5YR_S1501&src=pt
http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_13_5YR_B02001&prodType=table
http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml (Table C23008)
Format

A dataset with 50 observations on the following 17 variables.
**WaterStriders**

<table>
<thead>
<tr>
<th>State</th>
<th>Name of state</th>
</tr>
</thead>
<tbody>
<tr>
<td>HouseholdIncome</td>
<td>Mean household income (in dollars)</td>
</tr>
<tr>
<td>IQ</td>
<td>Mean IQ score of residents</td>
</tr>
<tr>
<td>McCainVote</td>
<td>Percentage of votes for John McCain in 2008 Presidential election</td>
</tr>
<tr>
<td>Region</td>
<td>Area of the country: MW=Midwest, NE=Northeast, S=South, or W=West</td>
</tr>
<tr>
<td>ObamaMcCain</td>
<td>Which 2008 Presidential candidate won state? M=McCain or O=Obama</td>
</tr>
<tr>
<td>Population</td>
<td>Number of residents (in millions)</td>
</tr>
<tr>
<td>EighthGradeMath</td>
<td>Average score NAEP mathematics for 8th-grade students</td>
</tr>
<tr>
<td>HighSchool</td>
<td>Percentage of high school graduates</td>
</tr>
<tr>
<td>GSP</td>
<td>Gross State Product (dollars per capita)</td>
</tr>
<tr>
<td>FiveVegetables</td>
<td>Percentage of residents who eat at least five servings of fruits/vegetables per day</td>
</tr>
<tr>
<td>Smokers</td>
<td>Percentage of residents who smoke</td>
</tr>
<tr>
<td>PhysicalActivity</td>
<td>Percentage of residents who have competed in a physical activity in past month</td>
</tr>
<tr>
<td>Obese</td>
<td>Percentage of residents classified as obese</td>
</tr>
<tr>
<td>College</td>
<td>Percentage of residents with college degrees</td>
</tr>
<tr>
<td>NonWhite</td>
<td>Percentage of residents who are not white</td>
</tr>
<tr>
<td>HeavyDrinkers</td>
<td>Percentage of residents who drink heavily</td>
</tr>
</tbody>
</table>

**Details**

Information from each of the 50 states of the United States.

**From 1e - dataset has been updated for 2e**

**Source**

Various online sources, mostly at [www.census.gov](http://www.census.gov)

---

**WaterStriders**

**Water Striders**

**Description**

Mating activity for water striders

**Format**

A dataset with 10 observations on the following 3 variables.

- AggressiveMale: Hyper-aggressice 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


Description

Blind taste test to compare brands of bottled water

Format

A dataset with 100 observations on the following 10 variables.

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

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
**Wetsuits**

**Description**

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

**Format**

A dataset with 12 observations on the following 4 variables.

<table>
<thead>
<tr>
<th>Wetsuit</th>
<th>NoWetsuit</th>
<th>Gender</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum swim velocity (m/sec) when wearing a wetsuit</td>
<td>Maximum swim velocity (m/sec) when wearing a regular bathing suit</td>
<td>Gender of swimmer: F or M</td>
<td>Type of athlete: swimmer or triathlete</td>
</tr>
</tbody>
</table>

**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**


---

**YoungBlood**

**Description**

Effects of transfusions of young blood on exercise endurance in mice

**Format**

A dataset with 30 observations on the following 2 variables.

<table>
<thead>
<tr>
<th>Plasma</th>
<th>Runtime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whether the blood came from a Young or Old mouse</td>
<td>Maximum treadmill run time (in minutes) in a 90-minute window</td>
</tr>
</tbody>
</table>
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.
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