TIBCO Spotfire S+® 8.2 Function Guide

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TIBCO Software Inc.

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software may be available on multiple operating systems. However, not all operating system platforms for a specific software version are released at the same time. Please see the readme.txt file for the availability of this software version on a specific operating system platform.

Reference

The correct bibliographic reference for this document is as follows:

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Technical Support

For technical support, please visit http://spotfire.tibco.com/support and register for a support account.

TIBCO SPOTFIRE S+ BOOKS

Note about Naming
Throughout the documentation, we have attempted to distinguish between the language (S-PLUS) and the product (Spotfire S+). • "S-PLUS" refers to the engine, the language, and its constituents (that is objects, functions, expressions, and so forth). • "Spotfire S+" refers to all and any parts of the product beyond the language, including the product user interfaces, libraries, and documentation, as well as general product and language behavior.

The TIBCO Spotfire S+® documentation includes books to address your focus and knowledge level. Review the following table to help you choose the Spotfire S+ book that meets your needs. These books are available in PDF format in the following locations:

- In your Spotfire S+ installation directory (**SHOME\help** on Windows, **SHOME/doc** on UNIX/Linux).
- In the Spotfire S+ Workbench, from the **Help ► Spotfire S+ Manuals** menu item.
- In Microsoft® Windows®, in the Spotfire S+ GUI, from the **Help ► Online Manuals** menu item.

Spotfire S+ documentation.

Information you need if you...	**See the...**
Must install or configure your current installation of Spotfire S+; review system requirements.	*Installtion and Administration Guide*
Want to review the third-party products included in Spotfire S+, along with their legal notices and licenses.	*Licenses*

Spotfire S+ documentation. (Continued)

Information you need if you...	**See the...**
Are new to the S language and the Spotfire S+ GUI, and you want an introduction to importing data, producing simple graphs, applying statistical models, and viewing data in Microsoft Excel®.	*Getting Started Guide*
Are a new Spotfire S+ user and need how to use Spotfire S+, primarily through the GUI.	*User's Guide*
Are familiar with the S language and Spotfire S+, and you want to use the Spotfire S+ plug-in, or customization, of the Eclipse Integrated Development Environment (IDE).	*Spotfire S+ Workbench User's Guide*
Have used the S language and Spotfire S+, and you want to know how to write, debug, and program functions from the **Commands** window.	*Programmer's Guide*
Are familiar with the S language and Spotfire S+, and you want to extend its functionality in your own application or within Spotfire S+.	*Application Developer's Guide*
Are familiar with the S language and Spotfire S+, and you are looking for information about creating or editing graphics, either from a **Commands** window or the Windows GUI, or using Spotfire S+ supported graphics devices.	*Guide to Graphics*
Are familiar with the S language and Spotfire S+, and you want to use the Big Data library to import and manipulate very large data sets.	*Big Data User's Guide*
Want to download or create Spotfire S+ packages for submission to the Comprehensive S-PLUS Archive Network (CSAN) site, and need to know the steps.	*Guide to Packages*

Spotfire S+ documentation. (Continued)

Information you need if you...	**See the...**
Are looking for categorized information about individual S-PLUS functions.	*Function Guide*
If you are familiar with the S language and Spotfire S+, and you need a reference for the range of statistical modelling and analysis techniques in Spotfire S+. Volume 1 includes information on specifying models in Spotfire S+, on probability, on estimation and inference, on regression and smoothing, and on analysis of variance.	*Guide to Statistics, Vol. 1*
If you are familiar with the S language and Spotfire S+, and you need a reference for the range of statistical modelling and analysis techniques in Spotfire S+. Volume 2 includes information on multivariate techniques, time series analysis, survival analysis, resampling techniques, and mathematical computing in Spotfire S+.	*Guide to Statistics, Vol. 2*

CONTENTS

CLASS OF FUNCTIONS

This guide contains the complete list of function available in S-PLUS, and is organized by class.

Add to Existing Plot

`abline`	Plot Line in Intercept-Slope Form
`abline.default`	Plot Line in Intercept-Slope Form
`arrows`	Plot Disconnected Line Segments or Arrows
`axes`	Plot Titling Information and/or Axis Labels
`axis`	Add an Axis to the Current Plot
`axis.line.render`	Plotting - Internal Functions
`axis.render`	Low-level Axis Plotting Function
`box`	Add a Box Around a Plot
`boxes`	Boxplots at Specified Locations
`breaks.render`	Plotting - Internal Functions
`contour`	Contour Plot
`contour.old`	Contour Plot
`double.buffer`	Control double buffering of graphics window for dynamic graphics
`grid.render`	Plotting: Low-Level Functions
`hex.legend`	Add a Legend Hexagonal Lattice Plot
`hexagons`	Add Hexagonal Cells to Plot of "hexbin" Object
`hloc.render`	Plotting: Low-Level Functions
`identify`	Identify Points on Plot - Generic Function
`identify.default`	Identify Points on Plot - Generic Function
`identify.hexbin`	Identify Points On a Hexagonal Binned Plot
`identify.xyplot`	Identify Points on Trellis Xyplot
`image`	Plot a Grayscale or Color Image
`image.legend`	Add a Legend to an Image Plot
`key`	Put a Key or Legend on a Plot
`labclust`	Label a Cluster Plot
`labels`	Labels for Printing or Plotting - Generic function
`labels.default`	Labels for Printing or Plotting - Generic function
`labels.render`	Plotting - Internal Functions
`legend`	Put a Legend on a Plot
`lines`	Add Lines or Points to Current Plot
`lines.render`	Plotting: Low-Level Functions
`matlines`	Plot Columns of Matrices

matplot	Plot Columns of Matrices
matpoints	Plot Columns of Matrices
mtext	Text in the Margins of a Plot
mtext.no.overlap	Low-Level Plotting Function
panel.smooth	Smoothing Scatterplots on Multipanel Displays
perspp	Project Points onto Three-Dimensional Perspective Plots
plotlabels	Labels for Printing or Plotting - Generic function
plotlabels.default	Labels for Printing or Plotting - Generic function
points	Add Lines or Points to Current Plot
polygon	Shade in a Polygonal Figure
qqline	Produce a Line through a Normal QQ-Plot
rect	Draws and Shades Rectangles
rug	Add a Rug to a Plot
segments	Plot Disconnected Line Segments or Arrows
stackbar.render	Plotting: Low-Level Functions
stamp	Time Stamp Output, Graph, and Audit File
subplot	Add a Plot to an Existing Plot
symbols	Draw Symbols on a Plot
text	Plot Text
text.default	Plot Text
text.tree	Place Text on a Dendrogram
ticks.render	Plotting - Internal Functions
title	Plot Titling Information and/or Axis Labels
tslines	Plot Multiple Time Series
tsplot	Plot Multiple Time Series
tspoints	Plot Multiple Time Series
usa	United States Coastline and State Boundaries

ANOVA Models

C	Factor with Chosen Contrasts
alias	Aliases (Dependencies) in a Model - Generic function
alias.aovlist	Alias Method for Multiple Strata Analysis of Variance
alias.design	Alias Method for Design Objects
anova	Compute an Anova Table - Generic function
anova.discrim	The ANOVA method for the discrim object.
aov	Fit an Analysis of Variance Model
aov.genyates	Analysis of Variance for Balanced Designs
aov.object	Analysis of Variance Objects

`aovlist.object`	Analysis of Variance Objects
`contr.helmert`	Contrast or Dummy Variable Matrix
`contr.poly`	Contrast or Dummy Variable Matrix
`contr.sum`	Contrast or Dummy Variable Matrix
`contr.treatment`	Contrast or Dummy Variable Matrix
`contrasts`	Contrasts Attribute
`contrasts<-`	Contrasts Attribute
`design`	Generate a Design Object
`design.object`	Design Objects
`design.table`	Arrange Response as a Array
`eff.aovlist`	Compute Efficiency Factors for aovlist Model Terms
`fac.design`	Generate Factorial Designs
`factor.names`	Factor and Level Names
`factor.names<-`	Factor and Level Names
`fractionate`	Produce a Fractional Factorial Design
`friedman.test`	Friedman Rank Sum Test
`interaction`	Compute the Interaction of Several Factors
`interaction.plot`	Two-Way Interaction Plots
`is.random`	Random Factors
`kruskal.test`	Kruskal-Wallis Rank Sum Test
`manova`	Fit a Multivariate Analysis of Variance Model
`maov.object`	Analysis of Variance Objects
`model.tables`	Compute Tables of Estimates for Model Object - Generic function
`model.tables.aov`	Tables of Means and Effects for ANOVA Models
`model.tables.aovlist`	Tables of Means and Effects for ANOVA Models
`multicomp`	Multiple Comparisons
`multicomp.default`	Multiple Comparisons
`multicomp.discrim`	The multiple comparisons method for the discrim object.
`multicomp.gls`	Multiple Comparisons For Generalized Least Squares Models
`multicomp.lm`	Multiple Comparisons
`multicomp.lme`	Multiple Comparisons For Linear Mixed Effects Models
`oa.design`	Generate an Orthogonal Array Design
`plot.design`	Plot a Function of Each Level of Factors or Terms
`plot.factor`	Summary Plots by Factors
`plot.varcomp`	Plot of Random Components
`proj`	Projection Matrix

proj.default	Projection Matrix
qdunnett	Quantiles for Dunnett's Comparisons with Control
qmvt	Quantiles for the Equicorrelated Multivariate-t Distribution
qmvt.sim	Simulation-based Quantiles of the Multivariate-t Distribution
qqnorm.aov	Normal or Half-Normal Plots of Effects
qqnorm.aovlist	Normal or Half-Normal Plots of Effects
qqnorm.maov	Normal or Half-Normal Plots of Effects
qtukey	Quantiles of Tukey's Studentized Range Distribution
randomize	Random Ordering for the Runs of a Design
raov	Random Effects Analysis of Variance
replications	Number of Replications of Terms
se.contrast	Standard Errors for Contrasts among Model Terms - Generic Function
se.contrast.aov	Standard Errors for Contrasts between Means
se.contrast.aovlist	Standard Errors for Contrasts between Means
ssType3	Compute Type III Sum of Squares - Generic Function
ssType3.aovlist	Compute Type III Sum of Squares
ssType3.default	Compute Type III Sum of Squares
ssType3.formula	Compute Type III Sum of Squares
ssType3.lm	Compute Type III Sum of Squares
summary.aov	Summary of an Analysis of Variance Object
summary.aovlist	Summary of an Analysis of Variance Object
summary.manova	Create a Manova Table
varcomp	Variance Components
varcomp.object	Variance Component Objects
Big Data Library	
ExpressionLanguage	Expression Language
[<-.bdFrame	Subscript a bdFrame
[<-.bdVector	Subscript a bdVector
[.bdFrame	Subscript a bdFrame
[.bdVector	Subscript a bdVector
as.bdCharacter	Big Data Character Vector
as.bdFactor	Big Data Factors
as.bdFrame	Convert big data objects
as.bdLogical	Big Data Logical Vectors
as.bdNumeric	Big Data Numeric Vectors
as.bdTimeDate	Big Data Time Date Objects

as.bdVector	Big Data Vectors
bd.assoc.rules	Generate Association Rrules
bd.assoc.rules.get.item.counts	Count Association Rule Items.
bd.assoc.rules.graph	Create a Plot of a Set of Association Rules
bd.aggregate	Column Aggregate Values Within Data Blocks
bd.append	Append data sets
bd.bin	Create Categories
bd.block.apply	Execute Spotfire S+ Script on Blocks
bd.by.group	Apply Function to Data Blocks
bd.by.window	Apply Function to Data Blocks Defined by a Moving Window
bd.cache.cleanup	Analyze BDO Cache Files
bd.cache.info	Analyze BDO Cache Files
bd.cache.temp.dir	Sets and Retrieves the Directory for Creating Temporary Cache Files
bd.coerce	Coerce To or From a Big Data Object
bd.cor	Compute Correlations or Covariances
bd.create.columns	Create New Columns
bd.crosstabs	Create Crosstabulation
bd.data.viewer	Show Data Viewer
bd.duplicated	Find the Unique rows in a dataset.
bd.filter.columns	Remove Data Set Columns
bd.filter.rows	Filter Rows
bd.join	Join Multiple Inputs
bd.modify.columns	Modify Column Names and Types
bd.normalize	Normalize Data
bd.object.info	Extract Internal Information about a bdFrame or bdVector Object
bd.options	Big Data Processing Options
bd.pack.object	Packing Data
bd.partition	Partition Data
bd.relational.difference	Get the Relational Difference of 2 Data Sets
bd.relational.divide	Get the Relational Division of 2 Columns
bd.relational.intersection	Get the Relational Intersection of 2 Data Sets
bd.relational.join	Get the Relational Join of 2 Data Sets
bd.relational.product	Get the Relational Product of 2 Data Sets
bd.relational.project	Remove Data Set Columns
bd.relational.restrict	Select Rows Using a Relational Restriction

bd.relational.union	Get the Relational Union of 2 Data Sets
bd.remove.missing	Handle Missing Values
bd.reorder.columns	Reorder Columns
bd.run.iminer.worksheet	From TIBCO Spotfire Statistics Services, Runs an Insightful Miner Worksheet in Batch Mode
bd.sample	Sample Rows
bd.select.rows	Select Columns and Rows
bd.shuffle	Reorder Data
bd.sort	Sort Rows
bd.split	Split Rows
bd.split.by.group	Divide Data into Blocks
bd.split.by.window	Divide Data into Blocks Defined by a Moving Window
bd.stack	Stack Columns
bd.string.column.width	Maximum Column String Width
bd.tally	Measures Internal Big Data Operations
bd.transpose	Transpose Data
bd.unique	Find the Unique Rows in a Dataset.
bd.univariate	Calculate Univariate Statistics
bd.unpack.object	Packing Data
bd.unstack	Unstack a Column
bdCharacter	Big Data Character Vector
bdCharacter.object	Big Data Objects
bdCluster	Big Data K-Means Clustering
bdFactor	Big Data Factors
bdFactor.object	Big Data Objects
bdFrame	Construct a bdFrame Object
bdFrame.object	Big Data Objects
bdGlm	Big Data Generalized Linear Model
bdLm	Big Data Linear Models
bdLogical	Big Data Logical Vectors
bdNumeric	Big Data Numeric Vectors
bdNumeric.object	Big Data Objects
bdObject.object	Big Data Objects
bdPackedObject	Packing Data
bdPrincomp	Big Data Principal Component Analysis
bdSignalSeries	Constructor Function For bdSignalSeries Objects
bdTimeDate	Big Data Time Date Objects
bdTimeDate.object	Big Data Objects

`bdTimeSeries`	Constructor Function for bdTimeSeries Class
`bdTimeSpan`	Constructor Function For bdTimeSpan Class
`bdVector.object`	Big Data Objects
`class.bdCharacter`	Big Data Objects
`class.bdFactor`	Big Data Objects
`class.bdFrame`	Big Data Objects
`class.bdNumeric`	Big Data Objects
`class.bdObject`	Big Data Objects
`class.bdTimeDate`	Big Data Objects
`class.bdVector`	Big Data Objects
`fitted.bdCluster`	Big Data Predict Cluster Membership
`fitted.bdPrincomp`	Big Data Principal Component Scores
`is.bdCharacter`	Big Data Character Vector
`is.bdFactor`	Big Data Factors
`is.bdLogical`	Big Data Logical Vectors
`is.bdNumeric`	Big Data Numeric Vectors
`is.bdTimeDate`	Big Data Time Date Objects
`is.bdVector`	Big Data Vectors
`names.bdFrame`	Column Names
`plot.bdSignalSeries`	Big-Data Signal Plot
`plot.bdTimeSeries`	Big-Data Calendar Time Series Plot
`predict.bdCluster`	Big Data Predict Cluster Membership
`predict.bdPrincomp`	Big Data Principal Component Scores
`show.bdInternalCache`	Print bdInternalCache Object
`summary.bdFrame`	Summarize bdFrame Object

Bootstrap Methods

`addSamples`	Add New Replicates to Bootstrap Object
`bootstats`	Calculate Bootstrap Statistics
`bootstrap`	General Nonparametric Bootstrapping
`jack.after.bootstrap`	Perform Jackknife-After-Bootstrap
`limits.bca`	Calculate BCa Confidence Limits
`limits.emp`	Calculate Empirical Percentiles of Replicates
`plot.jack.after.bootstrap`	Influence Plot Using Jackknife-After-Bootstrap
`plot.resamp`	Plot Method for Resample Objects
`print.jack.after.bootstrap`	Print a Jackknife-After-Bootstrap Object
`print.resamp`	Print a Resample Object
`print.summary.bootstrap`	Print a Summary of Bootstrap Object

`print.summary.resamp`	Print a Summary of Resample Object
`qqnorm.resamp`	Quantile-Quantile Plots for Resample Objects
`resamp.get.dimnames`	Support for Bootstrap and Jackknife
`resamp.get.fit.func`	Support for Bootstrap and Jackknife
`resamp.get.indices`	Support for Bootstrap and Jackknife
`samp.boot.bal`	Construct Matrix of Resamples
`samp.boot.mc`	Construct Matrix of Resamples
`samp.permute`	Construct Matrix of Resamples
`summary.bootstrap`	Summary Method for Bootstrap Objects
`summary.resamp`	Summary Method for Resample Objects
`update.bootstrap`	Add New Replicates to Bootstrap Object

Categorical Data

`Ops.data.frame`	Ops Group Method for Data Frame Objects
`Ops.factor`	Ops Group Method for Factors and Ordered Factors
`Ops.ordered`	Ops Group Method for Factors and Ordered Factors
`Subscript.factor`	Subscript a Factor Object
`[.factor`	Subscript a Factor Object
`[<-.factor`	Subscript a Factor Object
`aggregate`	Compute Summary Statistics of Subsets of Data
`aggregate.data.frame`	Compute Column-by-Column Summaries of Groups of Observations
`aggregate.default`	Compute Summary Statistics of Subsets of Data
`as.factor`	Create Factor Object
`as.ordered`	Create or Modify Ordered Factors
`by`	Split a Dataset by Factors and Apply a Function to the Parts
`by.data.frame`	Split a Dataset by Factors and Apply a Function to the Parts
`by.default`	Split a Dataset by Factors and Apply a Function to the Parts
`codes`	Codes of an Ordered Factor
`crosstabs`	Create a Contingency Table from Factor Data
`cut`	Create Category by Cutting Continuous Data
`cut.dates`	Create a Factor from a Dates Object
`cut.default`	Create Category by Cutting Continuous Data
`factor`	Create Factor Object
`is.factor`	Create Factor Object
`is.ordered`	Create or Modify Ordered Factors
`levels`	Levels Attribute

`levels.factor`	Levels Attribute for Factor Objects.
`levels<-.factor`	Levels Attribute for Factor Objects.
`loglin`	Contingency Table Analysis
`merge.levels`	Merge the Levels of a Factor
`nlevels`	Number of Levels of a Factor
`ordered`	Create or Modify Ordered Factors
`ordered<-`	Create or Modify Ordered Factors
`ordered<-.default`	Create or Modify Ordered Factors
`print.crosstabs`	Print Output of crosstabs Function
`rowsum`	Row Sums of a Matrix, Based on a Grouping Variable.
`split`	Split Data by Groups
`split.default`	Split Data by Groups
`table`	Create Contingency Table from Categories
`tabulate`	Count Entries in Bins
`tapply`	Apply a Function to a Ragged Array

Character Data Operations

`AsciiToInt`	Convert ASCII Characters to Decimal Representation
`as.character`	Character Objects
`ascii`	Ascii character codes
`basename`	Manipulate File Paths
`casefold`	Convert Case of Character Strings
`character`	Character Objects
`charmatch`	Partial Matching of Character Strings
`dQuote`	Quote Text
`delimMatch`	Delimited Pattern Matching
`dirname`	Manipulate File Paths
`format`	Formatted Character Data
`format.char`	Formatting Using C-style Formats
`format.default`	Format Atomic Data
`formatC`	Formatting Using C-style Formats
`gettext`	Translate Text Messages
`gettextf`	C-style formatted output
`grep`	Search for Pattern in Text
`gsub`	Replace part of a character string.
`is.all.white`	Test for White Space
`is.character`	Character Objects
`make.unique`	Make Character Strings Unique

`match`	Match Items against a Table - Generic function
`nchar`	Lengths of Character Strings
`ngettext`	Translate Text Messages
`oldGrep`	Search for Pattern in Text
`paste`	Concatenate Data to Make Character Data
`pmatch`	Partial Matching of Character Items in a Vector
`print.char.matrix`	Print a char.matrix Object to Make a Formatted Table
`regMatch`	Match Strings to Regular Expression Patterns.
`regexpr`	Pattern Matching in Strings
`rle`	Run Length Encoding
`sQuote`	Quote Text
`sort`	Sort into Ascending Numeric or Alphabetic or Time (Position) Order
`sprintf`	C-style formatted output
`string.bounding.box`	Bounding Boxes of Multiline Strings
`string.break.line`	Change Strings with Line Breaks into Multiple Strings
`strip.blanks`	Strip Spaces from Strings
`strsplit`	Split strings into pieces based on regular expression
`substituteString`	Replace part of a character string.
`substring`	Extract or Replace Portions of Character Strings
`tempdir`	Returns a Vector of Character Strings that are Virtually Certain to be Unique Filenames
`tempfile`	Create Unique Names for Files
`tolower`	Convert Case of Character Strings
`toupper`	Convert Case of Character Strings
Clustering	
`agnes`	Agglomerative Clustering
`agnes.object`	Agglomerative Nesting Object
`bdCluster`	Big Data K-Means Clustering
`clara`	Clustering Large Datasets
`clara.object`	Clustering Large Applications Object
`clorder`	Re-Order Leaves of a Cluster Tree
`clusplot`	Clusplot - Generic Function
`clusplot.default`	Bivariate clusplot
`clusplot.partition`	Bivariate Clusplot of a Partitioning Object
`cluster`	Identify Clusters
`cutree`	Create Groups from Hierarchical Clustering
`daisy`	Dissimilarity Matrix Calculation

`diana`	Divisive Cluster Analysis
`diana.object`	Divisive Analysis Object
`dissimilarity.object`	Dissimilarity Matrix Object
`dist`	Distance Matrix Calculation
`fanny`	Fuzzy Cluster Analysis
`fanny.object`	Fuzzy Analysis Object
`hclust`	Hierarchical Clustering
`hierarchical.object`	Hierarchical Clustering Object
`kmeans`	Hartigan's K-Means Clustering
`labclust`	Label a Cluster Plot
`mclass`	Classification Produced By mclust
`mclust`	Model-based Hierarchical Clustering
`mona`	Monothetic Cluster Analysis
`mona.object`	Monothetic Analysis Object
`mreloc`	Iterative Relocation For mclust / mclass
`pam`	Clustering Around Medoids
`pam.object`	Partitioning Around Medoids Object
`partition.object`	Partitioning Object
`plclust`	Plot Trees From Hierarchical Clustering
`plot.agnes`	Plots of an Agglomerative Hierarchical Clustering
`plot.diana`	Plots of a Divisive Hierarchical Clustering
`plot.mona`	Banner of Monothetic Divisive Hierarchical Clusterings
`plot.partition`	Plot of a Partition of the Data Set
`pltree`	Clustering Trees - Generic Function
`pltree.agnes`	Clustering Tree Of Agglomerative Hierarchical Clusterings
`pltree.diana`	Clustering Tree Of Divisive Hierarchical Clusterings
`pltree.hierarchical`	Clustering Tree of an Agglomerative or a Divisive Hierarchical Clustering
`print.agnes`	Use print() on an agnes object
`print.clara`	Use print() on a clara object
`print.diana`	Use print() on a diana object
`print.dissimilarity`	Use print() on a dissimilarity object
`print.fanny`	Use print() on a fanny object
`print.mona`	Use print() on a mona object
`print.pam`	Use print() on a pam object
`print.summary.agnes`	Use print() on a summary.agnes object
`print.summary.clara`	Use print() on a summary.clara object
`print.summary.diana`	Use print() on a summary.diana object

`print.summary.fanny`	Use print() on a summary.fanny object
`print.summary.mona`	Use print() on a summary.mona object
`print.summary.pam`	Use print() on a summary.pam object
`subtree`	Extract Part of a Cluster Tree
`summary.agnes`	Summary method for agnes objects
`summary.clara`	Summary method for clara objects
`summary.diana`	Summary method for diana objects
`summary.fanny`	Summary Method for fanny Objects
`summary.mona`	Summary Method for mona Objects
`summary.pam`	Summary Method for pam Objects

Complex Numbers

`%%`	Arithmetic Operators
`%/%`	Arithmetic Operators
`+`	Arithmetic Operators
`.Uminus`	Arithmetic Operators
`Arg`	Basic Complex Number Manipulation
`Arithmetic`	Arithmetic Operators
`Complex`	Basic Complex Number Manipulation
`Conj`	Basic Complex Number Manipulation
`Im`	Basic Complex Number Manipulation
`Mod`	Basic Complex Number Manipulation
`Re`	Basic Complex Number Manipulation
`^`	Arithmetic Operators
`acos`	Inverse Trigonometric Functions
`acosh`	Inverse Hyperbolic Trigonometric Functions
`as.complex`	Complex Valued Objects
`asin`	Inverse Trigonometric Functions
`asinh`	Inverse Hyperbolic Trigonometric Functions
`atan`	Inverse Trigonometric Functions
`atanh`	Inverse Hyperbolic Trigonometric Functions
`complex`	Complex Valued Objects
`cos`	Trigonometric Functions
`cosh`	Hyperbolic Trigonometric Functions
`exp`	Exponential Functions
`fft`	Fast Fourier Transform
`gamma`	Gamma Function (and its Natural Logarithm)
`is.complex`	Complex Valued Objects

`lgamma`	Gamma Function (and its Natural Logarithm)
`log`	Exponential Functions
`log2`	Exponential Functions
`log10`	Exponential Functions
`logb`	Exponential Functions
`polyroot`	Find the Roots of a Polynomial
`sin`	Trigonometric Functions
`sinh`	Hyperbolic Trigonometric Functions
`sqrt`	Exponential Functions
`tan`	Trigonometric Functions
`tanh`	Hyperbolic Trigonometric Functions

Computations Related to Plotting

`AsciiToInt`	Convert ASCII Characters to Decimal Representation
`acf`	Estimate Autocovariance, Autocorrelation or Partial Autocorrelation
`add.color.values`	Modify the Table of Named Colors
`approx`	Linear Interpolation of Points
`as.trellis.data.frame.series`	Internal Plotting Function
`as.trellis.data.frame.signal`	Internal Plotting Function
`axis.compute.time.breaks`	Compute Market Open and Close Times for Axis Breaks
`axis.numeric`	Axis for Numeric Data
`axis.time`	Time Axis for Time Series Plot
`axis.time.breaks`	Internal Calculations for Time Series Plotting
`axis.time.build`	Compute Time Series Axis
`axis.time.grid`	Internal Calculations for Time Series Plotting
`axis.time.label.format`	Format Label for Time Axis
`axis.time.labels`	Internal Calculations for Time Series Plotting
`axis.time.scale`	Internal Calculations for Time Series Plotting
`axis.time.ticks`	Internal Calculations for Time Series Plotting
`bandwidth.bcv`	Biased Cross-Validation for Bandwidth Selection
`bandwidth.hb`	Histogram Bin Based Bandwidth Selection
`bandwidth.nrd`	Normal Reference Density Bandwidth Selection
`bandwidth.sj`	Bandwidth Selection by Pilot Estimation of Derivatives
`bandwidth.ucv`	Unbiased Cross-Validation for Bandwidth Selection
`boxplot`	Boxplots
`chull`	Convex Hull of a Planar Set of Points
`cm.colors`	Create Color Sets Suitable for Image Palettes

co.intervals	Conditioning Intervals
col2rgb	Convert Color Specified to RGB Integer Triplet
color.values	Get Color Names and Values
colors	Get Color Names and Values
density	Estimate Probability Density Function
good.layout	Calculate Layout for Trellis
graphsheet.options	Options for graphsheet Graphics Device
gray	Generate Shades of Gray at Different Levels
gray.colors	Generate Gamma-Corrected Shades of Gray
grey	Generate Shades of Gray at Different Levels
grey.colors	Generate Gamma-Corrected Shades of Gray
heat.colors	Create Color Sets Suitable for Image Palettes
hist	Plot a Histogram
hist.factor	Plot a Histogram
hist2d	Calculate Two-Dimensional Histogram
hsl	Convert HSL Color Specification to RGB
hsv	Convert HSV Color Specification to RGB
image.palette	Set or Get Default Palette and Image Palette RGB Values
interp	Bivariate Interpolation for Irregular Data
ksmooth	Densities or Regressions Using Kernel Smoothers
lowess	Scatter Plot Smoothing
mstree	Minimal Spanning Tree and Multivariate Planing
nclass.fd	Freedman-Diaconis Method for Histogram Bin Counts
nclass.scott	Scott Method for Histogram Bin Counts
nclass.sturges	Sturges Method for Histogram Bin Counts
palette	Set or Get Default Palette and Image Palette RGB Values
par	Graphical Parameters
persp.setup	Line Styles for Perspective Plots
plclust	Plot Trees From Hierarchical Clustering
plot.loess	Display of Fitted LOESS Models by Coplots
plot.size.scale	Low-Level Plotting Function
ppoints	Plotting Points for QQplots
preplot	Precompute a Plotting Object - Generic Function
preplot.loess	Display of Fitted LOESS Models by Coplots
pretty	Vector of Prettied Values
pretty.log	Vector of Prettied Log Values
qqnorm	Quantile-Quantile Plots - Generic Function
qqnorm.default	Quantile-Quantile Plots - Generic Function

`qqplot`	Quantile-Quantile Plots - Generic Function
`quickvu`	Make Simple Vu-Graphs
`range`	Range of Data
`rainbow`	Create a Color Set Based on Sequence in HSV Color Space
`rgb`	Create RGB Value from Numeric RGB Intensities
`rgb2hsl`	Create HSL Value from Numeric RGB Intensities
`rgb2hsv`	Create HSV Value from Numeric RGB Intensities
`spline`	Cubic Spline Approximation
`terrain.values`	Create Color Sets Suitable for Image Palettes
`topo.colors`	Create Color Sets Suitable for Image Palettes
`use.device.palette`	Use Device-Specific Palette or Global Palette
`use.legacy.graphics`	Use Legacy Graphics Internal Code
`user.to.plot`	Low-Level Plotting Function
`xysort`	Rearrange x-y Data for Fast Plotting

curl Library

`download.file`	Download a File from the Internet

Data Attributes

`attr`	Attribute of an Object
`attributes`	All Attributes of an Object
`col`	Column and Row Identification in a Matrix
`dim`	Dim Attribute of an Object
`dim<-`	Dim Attribute of an Object
`dimnames`	Dimnames Attribute of an Object
`length`	Length of a Vector or List
`levels`	Levels Attribute
`mode`	Data Mode of the Values in a Vector
`names`	Names Attribute of an Object
`names<-`	Names Attribute of an Object
`ncol`	Extents of a Matrix
`nlevels`	Number of Levels of a Factor
`nrow`	Extents of a Matrix
`row`	Column and Row Identification in a Matrix
`slice.index`	Slice Identification in an Array
`storage.mode`	Data Mode of the Values in a Vector
`structure`	An Object with Given Attributes
`tsp`	Tsp Attribute of a Time Series Object

Data Directories	
«-	Assign a Name to an Object
<-	Assign a Name to an Object
->	Assign a Name to an Object
.First.lib	Shared Functions and Data Sets
.Last.lib	Shared Functions and Data Sets
Assignment	Assign a Name to an Object
NLSstClosestX	Inverse Interpolation
NLSstLfAsymptote	Horizontal Asymptote on the Left Side
NLSstRtAsymptote	Horizontal Asymptote on the Right Side
_	Assign a Name to an Object
as.variable	Make Factor or Numeric Variable out of Vector
asTable	Convert groupedData to a matrix
assign	Assign Object to Database or Frame
attach	Attach a Chapter or Database to the Search List
attach.data.frame	Attach Method for Data Frame Objects
attach.pframe	Attach Method for Data Frame Objects
balancedGrouped	Create a groupedData object from a matrix
cbind.data.frame	Build Data Frame from Columns
conflicts	Report on Conflicts Among Databases
data.dump	Produce Text Representations of S-PLUS Objects
data.restore	Bring Back Data-Dumped Objects
database.attr	Utilities for Use with Spotfire S+ Databases
database.object	Utilities for Use with Spotfire S+ Databases
database.status	Utilities for Use with Spotfire S+ Databases
database.type	Utilities for Use with Spotfire S+ Databases
detach	Detach Data from the Search List
dget	Write a Text Representation of a S-PLUS Object
dput	Write a Text Representation of a S-PLUS Object
dump	Produce Text Representations of S-PLUS Objects
exists	Search for a S-PLUS Object
find	Find the Database that Contains an Object
fix	Fix a Function.
gapply	Apply a Function by Groups
get	Search for a S-PLUS Object
getInitial	Get Initial Parameter Estimates
isBalanced	Check a Design for Balance

`library`	Shared Functions and Data Sets
`make.fields`	Convert Fixed Format Data to Fields
`masked`	Report Masked S-PLUS Objects
`module`	Access Add-On Module
`new.database`	Make a New Directory Database
`objcopy`	Assign Copies of Objects to a Database
`objdiff`	Differences Between S-PLUS Objects
`objects`	Find S-PLUS Object Names
`objects.summary`	Summary Information about S-PLUS Objects
`print.objects.summary`	Summary Information about S-PLUS Objects
`rbind.data.frame`	Create a Data Frame from Rows
`readMapped`	Read and Write Raw (Binary) Data
`readRaw`	Read and Write Raw (Binary) Data
`remove`	Remove Objects from a Database
`restore`	Bring Back Dumped Objects
`rm`	Remove by Name
`search`	View the Search List.
`setDBStatus`	Set Read/Write Permission on a Spotfire S+ Database
`sortedXyData`	Create a sortedXyData object
`true.file.name`	Map Object Name into File Name
`updateChapter`	Update Revised Version of a Chapter
`writeRaw`	Read and Write Raw (Binary) Data

Data Manipulation

`$`	Extract or Replace Parts of an Object - Generic Operators
`%in%`	Tell if items are in a set.
`%w/o%`	Find the Unique Values of a Set
`«-`	Assign a Name to an Object
`<-`	Assign a Name to an Object
`->`	Assign a Name to an Object
`:`	Sequences of Numbers
`@`	Extract or Replace Slot in S-PLUS Object
`Assignment`	Assign a Name to an Object
`Edit`	Edit function using Spotfire S+ script window
`Edit (Script window)`	Edit function using Spotfire S+ script window
`Edit.data`	Edit a dataset
`groupAlls`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array

`groupAlls.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAlls.default`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAnys`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.default`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupMaxs`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.data.frame`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.default`	Computes Group Max for a Vector or Columns of an Array
`groupMeans`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.data.frame`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.default`	Computes Group Means for a Vector or Columns of an Array
`groupMins`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.data.frame`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.default`	Computes Group Mins for a Vector or Columns of an Array
`groupProds`	Computes Group Products for a Vector or Columns of an Array
`groupProds.data.frame`	Computes Group Products for a Vector or Columns of an Array
`groupProds.default`	Computes Group Products for a Vector or Columns of an Array
`groupRanges`	Computes Group Ranges for a Vector or Columns of an Array
`groupRanges.data.frame`	Computes Group Ranges for a Vector or Columns of an Array
`groupRanges.default`	Computes Group Ranges for a Vector or Columns of an Array
`groupStdevs`	Computes Group Standard Deviations for a Vector or Columns of an Array.
`groupSums`	Computes Group Sums for a Vector or Columns of an Array
`groupSums.data.frame`	Computes Group Sums for a Vector or Columns of an Array
`groupSums.default`	Computes Group Sums for a Vector or Columns of an Array
`groupVars`	Computes Group Variances for a Vector or Columns of an Array

groupVars.data.frame	Computes Group Variances for a Vector or Columns of an Array
groupVars.default	Computes Group Variances for a Vector or Columns of an Array
NCOL	Uniform Rectangular Data Functions
NLSstClosestX	Inverse Interpolation
NLSstLfAsymptote	Horizontal Asymptote on the Left Side
NLSstRtAsymptote	Horizontal Asymptote on the Right Side
NROW	Uniform Rectangular Data Functions
Rows	Select Rows of a Data Frame or List
Subscript	Extract or Replace Parts of an Object - Generic Operators
Subscript.data.frame	Subscript a Data Frame
Subscript.factor	Subscript a Factor Object
Subscript.tree	Subscript a Tree Object
[	Extract or Replace Parts of an Object - Generic Operators
[<-	Extract or Replace Parts of an Object - Generic Operators
[<-.bdFrame	Subscript a bdFrame
[<-.bdVector	Subscript a bdVector
[<-.data.frame	Subscript a Data Frame
[.bdFrame	Subscript a bdFrame
[.bdVector	Subscript a bdVector
[.cts	Subscript a Time Series Object
[.data.frame	Subscript a Data Frame
[.factor	Subscript a Factor Object
[.its	Subscript a Time Series Object
[.rts	Subscript a Time Series Object
[.tree	Subscript a Tree Object
[<-.factor	Subscript a Factor Object
[[	Extract or Replace Parts of an Object - Generic Operators
[[<-.data.frame	Subscript a Data Frame
[[«-	Extract or Replace Parts of an Object - Generic Operators
[[.data.frame	Subscript a Data Frame
_	Assign a Name to an Object
abbreviate	Generate Abbreviations
append	Insert or Merge Data
as.bdFrame	Convert big data objects
as.char.rect	Uniform Rectangular Data Functions
as.rectangular	Uniform Rectangular Data Functions

`bd.aggregate`	Column Aggregate Values Within Data Blocks
`bd.append`	Append data sets
`bd.block.apply`	Execute Spotfire S+ Script on Blocks
`bd.by.group`	Apply Function to Data Blocks
`bd.by.window`	Apply Function to Data Blocks Defined by a Moving Window
`bd.coerce`	Coerce To or From a Big Data Object
`bd.create.columns`	Create New Columns
`bd.duplicated`	Find the Unique rows in a dataset.
`bd.filter.columns`	Remove Data Set Columns
`bd.filter.rows`	Filter Rows
`bd.relational.difference`	Get the Relational Difference of 2 Data Sets
`bd.relational.divide`	Get the Relational Division of 2 Columns
`bd.relational.intersection`	Get the Relational Intersection of 2 Data Sets
`bd.relational.join`	Get the Relational Join of 2 Data Sets
`bd.relational.product`	Get the Relational Product of 2 Data Sets
`bd.relational.project`	Remove Data Set Columns
`bd.relational.restrict`	Select Rows Using a Relational Restriction
`bd.relational.union`	Get the Relational Union of 2 Data Sets
`bd.reorder.columns`	Reorder Columns
`bd.sample`	Sample Rows
`bd.select.rows`	Select Columns and Rows
`bd.sort`	Sort Rows
`bd.split`	Split Rows
`bd.split.by.group`	Divide Data into Blocks
`bd.split.by.window`	Divide Data into Blocks Defined by a Moving Window
`bd.stack`	Stack Columns
`bd.string.column.width`	Maximum Column String Width
`bd.unique`	Find the Unique Rows in a Dataset.
`bd.unstack`	Unstack a Column
`bdCharacter.object`	Big Data Objects
`bdFactor.object`	Big Data Objects
`bdFrame`	Construct a bdFrame Object
`bdFrame.object`	Big Data Objects
`bdNumeric.object`	Big Data Objects
`bdObject.object`	Big Data Objects
`bdTimeDate.object`	Big Data Objects
`bdVector.object`	Big Data Objects

`c`	Combine Values into a Vector or List
`casefold`	Convert Case of Character Strings
`cbind`	Build Matrix from Columns or Rows
`charmatch`	Partial Matching of Character Strings
`class.bdCharacter`	Big Data Objects
`class.bdFactor`	Big Data Objects
`class.bdFrame`	Big Data Objects
`class.bdNumeric`	Big Data Objects
`class.bdObject`	Big Data Objects
`class.bdTimeDate`	Big Data Objects
`class.bdVector`	Big Data Objects
`colIds`	Uniform Rectangular Data Functions
`colMaxs`	Row and Column Summaries - min, max, and range
`colMeans`	Row and Column Summaries
`colMedians`	Compute medians columnwise
`colMins`	Row and Column Summaries - min, max, and range
`colProds`	Columnwise Products
`colQuantiles`	Compute quantiles columnwise
`colRanges`	Row and Column Summaries - min, max, and range
`colStdevs`	Row and Column Summaries
`colSums`	Row and Column Summaries
`colVars`	Row and Column Summaries
`colnames`	Uniform Rectangular Data Functions
`colnames <-`	Uniform Rectangular Data Functions
`concat`	Vector Concatenation
`concat.two`	Vector Concatenation
`dQuote`	Quote Text
`delimMatch`	Delimited Pattern Matching
`duplicated`	Unique or Duplicated Values
`duplicated.data.frame`	Unique or Duplicated Rows in a Data Frame, or unique combinations of multiple variables
`duplicatedList`	Match and duplicated for simple lists
`ed`	Invoke ed Text Editor
`edit`	Text Editor
`edit (Text Editor)`	Text Editor
`emacs`	Invoke emacs Text Editor
`fix`	Fix a Function.
`grep`	Search for Pattern in Text

groupedData	Construct a groupedData Object
gsub	Replace part of a character string.
gsummary	Summarize by Groups
head	Get the First or Last Part of an Object
ifelse	Conditional Data Selection
index.rowcol	Find Indices into 1 or 2-dim Dataset
intersect	Find the Intersection of Multiple Sets
is.element	Tell if items are in a set.
is.monthend	The End of Month Day Information
is.na	Test For Missing Values - Generic function
is.rectangular	Uniform Rectangular Data Functions
jitter	Separate Data Points by Jittering
length	Length of a Vector or List
match	Match Items against a Table - Generic function
match.data.frame	Match rows of a data frame in another data frame, or match "rows" of lists
matchList	Match and duplicated for simple lists
merge	Merge Two Datasets and Match Columns
merge.data.frame	Merge Two Datasets and Match Columns
merge.default	Merge Two Datasets and Match Columns
na.exclude	Filter Missing Values From a Data Frame
na.fail	Filter Missing Values From a Data Frame
na.include	Replace NA's in a Factor with a New Level
na.omit	Filter Missing Values From a Data Frame
nafitted	Adjust for Missing Values
nafitted.default	Adjust for Missing Values
nafitted.exclude	Adjust for Missing Values
names.bdFrame	Column Names
napredict	Adjust for Missing Values
napredict.default	Adjust for Missing Values
napredict.exclude	Adjust for Missing Values
naprint	Print Missing Value Information
naprint.default	Print Missing Value Information
naprint.exclude	Print Missing Value Information
naprint.omit	Print Missing Value Information
naresid	Adjust for Missing Values
naresid.default	Adjust for Missing Values
naresid.exclude	Adjust for Missing Values

notSorted	Determine if a vector is sorted.
numCols	Uniform Rectangular Data Functions
numRows	Uniform Rectangular Data Functions
oldGrep	Search for Pattern in Text
order	Ordering to Create Sorted Data
paste	Concatenate Data to Make Character Data
pmatch	Partial Matching of Character Items in a Vector
rbind	Build Matrix from Columns or Rows
regMatch	Match Strings to Regular Expression Patterns.
regexpr	Pattern Matching in Strings
rep	Replicate Data Values
rep.int	Replicate Integer Vector
replace	Insert or Merge Data
rev	Reverse the Order of a Vector or List
rle	Run Length Encoding
row.names	Row Names Attribute
row.names<-	Row Names Attribute
rowIds	Uniform Rectangular Data Functions
rowMaxs	Row and Column Summaries - min, max, and range
rowMeans	Row and Column Summaries
rowMins	Row and Column Summaries - min, max, and range
rowRanges	Row and Column Summaries - min, max, and range
rowStdevs	Row and Column Summaries
rowSums	Row and Column Summaries
rowVars	Row and Column Summaries
rownames	Uniform Rectangular Data Functions
rownames <-	Uniform Rectangular Data Functions
rowsum	Row Sums of a Matrix, Based on a Grouping Variable.
sQuote	Quote Text
sd	Row and Column Summaries
seq	Sequences of Numbers
seq.default	Sequences of Numbers
seriesLag	Time Series Lag/Lead Function
seriesLength	The Length of a "signalSeries" ("bdSignalSeries") or "timeSeries" ("bdTimeSeries") object
setdiff	Find the Unique Values of a Set
sort	Sort into Ascending Numeric or Alphabetic or Time (Position) Order

`sort.list`	Vector of Indices that Sort Data
`split`	Split Data by Groups
`split.default`	Split Data by Groups
`strip.blanks`	Strip Spaces from Strings
`strsplit`	Split strings into pieces based on regular expression
`structure`	An Object with Given Attributes
`sub`	Uniform Rectangular Data Functions
`subscript2d`	Uniform Rectangular Data Functions
`subscript2d<-`	Uniform Rectangular Data Functions
`substituteString`	Replace part of a character string.
`substring`	Extract or Replace Portions of Character Strings
`subtractMeans`	Subtract Group Means from Each Entry for a Vector or Columns of an Array
`tail`	Get the First or Last Part of an Object
`tolower`	Convert Case of Character Strings
`toupper`	Convert Case of Character Strings
`union`	Find the Union of Multiple Sets
`unique`	Unique or Duplicated Values
`unique.data.frame`	Unique or Duplicated Rows in a Data Frame, or unique combinations of multiple variables
`unlist`	Simplify the Structure of a List
`unname`	Remove "names" or "dimnames"
`unpaste`	Split a Character String into Fields
`vi`	Invoke vi Text Editor
`which`	Find TRUE values in logical vector
`zapsmall`	Coerce Small Numbers to Zero for Printing

Data Sets

`.Last.value`	Keep the Value of the Last Un-assigned S Expression
`.Machine`	Machine Arithmetic Constants
`.Random.seed`	Seeds for Random Number Generators
`.Temporary.file.list`	List of Auto-Created Files to be Removed at Session End
`.laenv`	Tuning Parameters for gebra Computations
`LETTERS`	The Alphabet
`Puromycin`	Biochemical Reactions of Cells Treated with Puromycin
`air`	New York Ozone Concentration
`akima`	Waveform Distortion Data for Bivariate Interpolation
`akima.x`	Waveform Distortion Data for Bivariate Interpolation
`akima.y`	Waveform Distortion Data for Bivariate Interpolation

akima.z	Waveform Distortion Data for Bivariate Interpolation
animals	Sample Data Sets For Cluster Analysis
author	Character Counts for Books by Various Authors
author.count	Character Counts for Books by Various Authors
auto	Statistics of Automobile Models
auto.stats	Statistics of Automobile Models
axis.break.table	Time Series Axis Style Tables
axis.label.table	Time Series Axis Style Tables
axis.tick.table	Time Series Axis Style Tables
bar.old	Style List for Barplots
bar.splus	Style List for Barplots
barley	Sample Data Sets for Trellis Graphics
barley.disease	Barley Disease Data
barley.exposed	Barley Disease Data
bicoal	Bituminous Coal Production in USA
bicoal.tons	Bituminous Coal Production in USA
bladder	Sample Data Sets For Survival Analysis
bonds	Daily Yields of Six AT&T Bonds
bonds.coupon	Daily Yields of Six AT&T Bonds
bonds.yield	Daily Yields of Six AT&T Bonds
bxp.att	Style List for Boxplots
bxp.old	Style List for Boxplots
bxp.splus	Style List for Boxplots
capacitor	Sample Data Sets For Survival Analysis
car	Fuel Consumption Data
car.all	Automobile Data from Consumer Reports
car.gals	Fuel Consumption Data
car.miles	Fuel Consumption Data
car.test.frame	Automobile Data from Consumer Reports
car.time	Fuel Consumption Data
catalyst	Comparing the Yield of Two Catalysts
cereal	Consumer Attitudes Towards Breakfast Cereals
cereal.attitude	Consumer Attitudes Towards Breakfast Cereals
chernoff2	Mineral Contents Data (used by Chernoff)
city	Names and Locations of Selected U.S. Cities
city.name	Names and Locations of Selected U.S. Cities
city.state	Names and Locations of Selected U.S. Cities
city.x	Names and Locations of Selected U.S. Cities

`city.y`	Names and Locations of Selected U.S. Cities
`claims`	Cost of Automobile Insurance Claims
`cluster.datasets`	Sample Data Sets For Cluster Analysis
`co2`	Mauna Loa Carbon Dioxide Concentration
`corn`	Corn Yields and Rainfall
`corn.rain`	Corn Yields and Rainfall
`corn.yield`	Corn Yields and Rainfall
`css.colors`	CSS Named Colors
`cu.dimensions`	Automobile Data from Consumer Reports
`cu.specs`	Automobile Data from Consumer Reports
`cu.summary`	Automobile Data from Consumer Reports
`dating`	Sample Data Sets for Trellis Graphics
`djia`	Dow Jones Industrial Average
`drug.mult`	Drug Study Data for Repeated Measures
`environmental`	Sample Data Sets for Trellis Graphics
`ethanol`	Measurement of Exhaust from Burning Ethanol
`euro`	Sample Data Sets For Cluster Analysis
`evap`	Soil Evaporation Data
`evap.x`	Soil Evaporation Data
`evap.y`	Soil Evaporation Data
`exch.rate`	Foreign Exchange Rates
`fed.rate`	Federal Reserve Interest Rates
`font`	Vector Drawn Fonts
`format.timeDate`	Sample Formats
`format.timeSpan`	Sample Formats
`freeny`	Revenue Data
`freeny.x`	Revenue Data
`freeny.y`	Revenue Data
`fuel.frame`	Automobile Data from Consumer Reports
`fusion.time`	Sample Data Sets for Trellis Graphics
`galaxy`	Radial Velocity of Galaxy NGC7531
`ganglion`	Sample Data Sets for Trellis Graphics
`gas`	Measurement of Exhaust from Burning Ethanol
`geyser`	Old Faithful Geyser Data
`gr.pars`	Names of Graphical Parameters
`guayule`	Rate of Germination of Treated Guayule Seeds
`gun`	Speed of Firing Naval Guns
`halibut`	Halibut Data

`hamster`	Sample Data Sets for Trellis Graphics
`heart`	Sample Data Sets For Survival Analysis
`hstart`	US Housing Starts
`iris`	Fisher's Iris Data
`iris.df`	Fisher's Iris Data
`kyphosis`	Spinal Disease in Children Data
`letters`	The Alphabet
`leukemia`	Sample Data Sets For Survival Analysis
`liver`	Carcinogeneity Studies of Rat Livers
`liver.cells`	Carcinogeneity Studies of Rat Livers
`liver.exper`	Carcinogeneity Studies of Rat Livers
`liver.gt`	Carcinogeneity Studies of Rat Livers
`liver.section`	Carcinogeneity Studies of Rat Livers
`longley`	Longley's Regression Data
`longley.x`	Longley's Regression Data
`longley.y`	Longley's Regression Data
`lottery`	New Jersey Pick-It Lottery Data (First Set)
`lottery.number`	New Jersey Pick-It Lottery Data (First Set)
`lottery.payoff`	New Jersey Pick-It Lottery Data (First Set)
`lottery2`	New Jersey Pick-It Lottery Data (Second Set)
`lottery2.number`	New Jersey Pick-It Lottery Data (Second Set)
`lottery2.payoff`	New Jersey Pick-It Lottery Data (Second Set)
`lottery3`	New Jersey Pick-It Lottery Data (Third Set)
`lottery3.number`	New Jersey Pick-It Lottery Data (Third Set)
`lottery3.payoff`	New Jersey Pick-It Lottery Data (Third Set)
`lung`	Sample Data Sets For Survival Analysis
`lynx`	Canadian Lynx Trappings
`market.survey`	AT&T Telemarketing Data
`melanoma`	Sample Data Sets for Trellis Graphics
`month`	Month Names and Abbreviations
`month.abb`	Month Names and Abbreviations
`month.name`	Month Names and Abbreviations
`net.packet`	Network Packet Traffic
`oa.12.2p11`	Standard Orthogonal Array Designs
`oa.16.2p15`	Standard Orthogonal Array Designs
`oa.18.2p1x3p7`	Standard Orthogonal Array Designs
`oa.20.2p19`	Standard Orthogonal Array Designs
`oa.24.2p23`	Standard Orthogonal Array Designs

`oa.24.3p1x2p4`	Standard Orthogonal Array Designs
`oa.27.3p13`	Standard Orthogonal Array Designs
`oa.32.2p31`	Standard Orthogonal Array Designs
`oa.36.2p3x3p4`	Standard Orthogonal Array Designs
`oa.4.2p3`	Standard Orthogonal Array Designs
`oa.8.2p7`	Standard Orthogonal Array Designs
`oa.9.3p4`	Standard Orthogonal Array Designs
`oa.Matrices`	Standard Orthogonal Array Designs
`oilcity`	Monthly Excess Returns of Oil City Petroleum, Inc. Stocks and the Market
`ovarian`	Sample Data Sets For Survival Analysis
`ozone`	Ozone Concentrations in the Northeast U.S.
`ozone.city`	Ozone Concentrations in the Northeast U.S.
`ozone.median`	Ozone Concentrations in the Northeast U.S.
`ozone.quartile`	Ozone Concentrations in the Northeast U.S.
`ozone.xy`	Ozone Concentrations in the Northeast U.S.
`pi`	Fundamental Constant: pi
`pigment`	Moisture Content of Pigments Experiment
`pingpong`	US Table Tennis Association Data
`polarization`	Sample Data Sets for Trellis Graphics
`prim`	Particle Physics Data
`prim4`	Particle Physics Data
`prim9`	Particle Physics Data
`ps.colors.rgb`	Colors for PostScript driver
`ps.paper.regions`	Imageable Regions for PostScript Printers
`ps.setcolor.hsb`	PostScript Procedures for Setting Colors
`ps.setcolor.rgb`	PostScript Procedures for Setting Colors
`ps.setfont.latin1`	PostScript Procedures for Font Selection
`ps.setfont.std`	PostScript Procedures for Font Selection
`quakes.bay`	Bay Area Earthquakes
`r.default.colors`	R Default Palette Colors
`r.default.image.colors`	R Default Image Colors
`rain`	New York City Precipitation
`rain.nyc1`	New York City Precipitation
`rain.nyc2`	New York City Precipitation
`rubber`	Sample Data Sets for Trellis Graphics
`ruspini`	Sample Data Sets For Cluster Analysis
`saving`	Savings Rates for Countries

saving.x	Savings Rates for Countries
say.wavelet	Speech Signal
sensors	Responses of eight sensors to a gas
ship	Manufacturing Shipments
singer	Sample Data Sets for Trellis Graphics
sliced.ball	3D Ball with Slice Removed
solder	AT&T Solder Experiment
solder.balance	AT&T Solder Experiment
solder2	AT&T Solder Experiment
splus.default.colors	Spotfire S+ Default Palette Colors
splus.default.image.colors	Spotfire S+ Default Image Colors
stack	Stack-loss Data
stack.loss	Stack-loss Data
stack.x	Stack-loss Data
state	States of the U.S.
state.abb	States of the U.S.
state.center	States of the U.S.
state.division	States of the U.S.
state.name	States of the U.S.
state.region	States of the U.S.
state.x77	States of the U.S.
steam	Steam Usage Data
steam.x	Steam Usage Data
steam.y	Steam Usage Data
store.co.helmert	Stored Contrasts
store.co.mean	Stored Contrasts
store.co.poly	Stored Contrasts
sunspots	Monthly Mean Relative Sunspot Numbers
survival.datasets	Sample Data Sets For Survival Analysis
swiss	Fertility Data for Switzerland in 1888
swiss.fertility	Fertility Data for Switzerland in 1888
swiss.x	Fertility Data for Switzerland in 1888
switzerland	Heights of Switzerland on 12 by 12 Grid
tbauc.1y	Treasury Bill Auction Rates
tbauc.3m	Treasury Bill Auction Rates
tbauc.6m	Treasury Bill Auction Rates
tbond	Treasury Bond Futures Trading Data
tcm.curve	Treasury Constant Maturity Curve

`telsam`	Interviewer Response Data
`telsam.response`	Interviewer Response Data
`testscores`	Scores from Mathematics Qualifying Exams
`tone`	Bricker's Tone-Ringer Preference Data
`tone.appeal`	Bricker's Tone-Ringer Preference Data
`trellis.datasets`	Sample Data Sets for Trellis Graphics
`util`	Earnings and Market/Book Ratio for Utilities
`util.earn`	Earnings and Market/Book Ratio for Utilities
`util.mktbook`	Earnings and Market/Book Ratio for Utilities
`version`	Spotfire S+ Version Information.
`voice`	Voice Spectrogram Data
`voice.five`	Voice Spectrogram Data
`votes`	Votes for Republican Candidate in Presidential Elections
`votes.repub`	Votes for Republican Candidate in Presidential Elections
`votes.year`	Votes for Republican Candidate in Presidential Elections
`wafer`	AT&T Wafer Experiment
`x11.colors`	X11 Named Colors

Data Types

`Gamma`	Generate a Family Object
`NextMethod`	Methods Invoked from S-PLUS Functions
`UseMethod`	Methods Invoked from S-PLUS Functions
`aov.object`	Analysis of Variance Objects
`aovlist.object`	Analysis of Variance Objects
`arima.object`	ARIMA Model Object
`array`	Multi-Way Arrays
`as.array`	Multi-Way Arrays
`as.bdCharacter`	Big Data Character Vector
`as.bdFactor`	Big Data Factors
`as.bdLogical`	Big Data Logical Vectors
`as.bdNumeric`	Big Data Numeric Vectors
`as.bdVector`	Big Data Vectors
`as.character`	Character Objects
`as.complex`	Complex Valued Objects
`as.double`	Double Precision Objects
`as.factor`	Create Factor Object
`as.function`	Function Objects
`as.integer`	Integer Objects

as.list	List Objects
as.logical	Logical Objects
as.matrix	Matrix Objects
as.name	Name Objects
as.null	Null Objects
as.numeric	Numeric Objects
as.single	Single Precision Objects
as.ts	Time Series Objects
as.vector	Vectors (Simple Objects)
bdCharacter	Big Data Character Vector
bdCharacter.object	Big Data Objects
bdFactor	Big Data Factors
bdFactor.object	Big Data Objects
bdFrame.object	Big Data Objects
bdLogical	Big Data Logical Vectors
bdNumeric	Big Data Numeric Vectors
bdNumeric.object	Big Data Objects
bdObject.object	Big Data Objects
bdTimeDate.object	Big Data Objects
bdVector.object	Big Data Objects
binomial	Generate a Family Object
callGeneric	Call the Current Generic Function
character	Character Objects
class	Class Attribute of an Object
class.«-	Class <<-
class.<-	Class <-
class.()<-	Class ()<-
class.ANY	Class ANY
class.CLASS	Class CLASS
class.GENERIC	Class GENERIC
class.NULL	Class NULL
class.UNKNOWN	Class UNKNOWN
class.UNSET	Class UNSET
class.VIRTUAL	Class VIRTUAL
class.array	Class array
class.atomic	Class atomic
class.attached	Class attached
class.bdCharacter	Big Data Objects

`class.bdFactor`	Big Data Objects
`class.bdFrame`	Big Data Objects
`class.bdNumeric`	Big Data Objects
`class.bdObject`	Big Data Objects
`class.bdTimeDate`	Big Data Objects
`class.bdVector`	Big Data Objects
`class.break`	Class break
`class.call`	Class call
`class.call...`	Class call...
`class.character`	Class character
`class.classRepresentation`	Class classRepresentation
`class.classVersions`	Class classVersions
`class.comment`	Class comment
`class.comment.expression`	Class comment.expression
`class.complex`	Class complex
`class.connection`	Class connection
`class.controlSemantics`	Class controlSemantics
`class.database`	Class database
`class.device`	Class device
`class.directory`	Class directory
`class.docStyle`	Class docStyle
`class.documentsGeneric`	Class documentsGeneric
`class.expression`	Class expression
`class.fifo`	Class fifo
`class.file`	Class file
`class.for`	Class for
`class.function`	Class function
`class.groupGeneric`	Class groupGeneric
`class.groupVec`	Group Vector Class
`class.groupVecVirtual`	Group Vector Class
`class.if`	Class if
`class.indexLookup`	Class indexLookup
`class.integer`	Class integer
`class.interface`	Class interface
`class.internal`	Class internal
`class.iterateState`	Class iterateState
`class.language`	Class language
`class.levelsLookup`	Class levelsLookup

`class.list`	Class list
`class.logical`	Class logical
`class.matrix`	Class matrix
`class.methodDef`	Class methodDef
`class.methodsGeneric`	Class methodsGeneric
`class.missing`	Class missing
`class.named`	Class named
`class.next`	Class next
`class.numeric`	Class numeric
`class.numericSequence`	Numeric Sequence Class
`class.parse`	Class parse
`class.pipe`	Class pipe
`class.positions`	Virtual Classes for Time-Related Objects
`class.positionsCalendar`	Virtual Classes for Time-Related Objects
`class.positionsNumeric`	Virtual Classes for Time-Related Objects
`class.raw`	Class raw
`class.recursive`	Class recursive
`class.repeat`	Class repeat
`class.return`	Class return
`class.semanticAssertion`	Class semanticAssertion
`class.semanticMethod`	Class semanticMethod
`class.semanticState`	Class semanticState
`class.sequence`	Class sequence
`class.series`	Base Class for Time Series and Signals
`class.seriesVirtual`	Base Class for Time Series and Signals
`class.signalSeries`	signalSeries Class
`class.single`	Class single
`class.string`	Class string
`class.stringFactor`	Class stringFactor
`class.stringOrdered`	Class stringOrdered
`class.structure`	Class structure
`class.terminal`	Class terminal
`class.text`	Class text
`class.textConnection`	Class textConnection
`class.timeDate`	Time and Date Class
`class.timeEvent`	Event Class
`class.timeInterval`	Virtual Classes for Time-Related Objects
`class.timeRelative`	Relative Time Class

`class.timeSequence`	Time Sequence Class
`class.timeSeries`	Calendar Time Series Class
`class.timeSpan`	Time Span Class
`class.timeZone`	Time Zone Classes
`class.timeZoneC`	Time Zone Classes
`class.timeZoneS`	Time Zone Classes
`class.vector`	Class vector
`class.while`	Class while
`complex`	Complex Valued Objects
`coxph.object`	Proportional Hazards Regression Object
`cusum.object`	Cusum Quality Control Chart Object
`data.class`	Class of an Object
`data.frame.object`	Data Frame Objects
`design.object`	Design Objects
`double`	Double Precision Objects
`extends`	Test Relations Between Classes
`factanal.object`	Factor Analysis Objects
`factor`	Create Factor Object
`family`	Generate a Family Object
`family.default`	Generate a Family Object
`family.object`	A Family of GLM Models
`formula.object`	Model Formula Objects
`gam.object`	Generalized Additive Model Object
`gaussian`	Generate a Family Object
`getClass`	Get the Definition of a Class
`getClassDef`	Get the Definition of a Class
`getClassVersions`	Get Version Information for a Class
`getClasses`	Get the Classes Defined on a Chapter
`getObjectClass`	Get Object Classes
`getSlots`	The Names, Classes of the Slots for an Object
`glm.object`	Generalized Linear Model Object
`htest.object`	Hypotheses Testing Objects
`inherits`	Test Inheritance of an Object
`integer`	Integer Objects
`inverse.gaussian`	Generate a Family Object
`is`	Test Relations Between Classes
`is.array`	Multi-Way Arrays
`is.atomic`	Test for Recursive or Atomic Objects

`is.bdCharacter`	Big Data Character Vector
`is.bdFactor`	Big Data Factors
`is.bdLogical`	Big Data Logical Vectors
`is.bdNumeric`	Big Data Numeric Vectors
`is.bdVector`	Big Data Vectors
`is.character`	Character Objects
`is.complex`	Complex Valued Objects
`is.double`	Double Precision Objects
`is.factor`	Create Factor Object
`is.function`	Function Objects
`is.integer`	Integer Objects
`is.language`	Test for Recursive or Atomic Objects
`is.list`	List Objects
`is.logical`	Logical Objects
`is.matrix`	Matrix Objects
`is.name`	Name Objects
`is.null`	Null Objects
`is.numeric`	Numeric Objects
`is.recursive`	Test for Recursive or Atomic Objects
`is.single`	Single Precision Objects
`is.symbol`	Name Objects
`is.ts`	Time Series Objects
`is.vector`	Vectors (Simple Objects)
`isClass`	Test for a Class
`list`	List Objects
`lm.object`	Linear Least Squares Model Object
`lms.object`	Least Median of Squares Object
`loadings.object`	Loadings Matrix Objects
`loess.object`	Loess Model Object
`logical`	Logical Objects
`lts.object`	Least Trimmed Squares Object
`maov.object`	Analysis of Variance Objects
`matrix`	Matrix Objects
`mcd.object`	Minimum Covariance Determinant Object
`methods`	List Methods of Old-Style (SV3) Generic Functions
`mlm`	Linear Least Squares Model Object
`mlm.object`	Linear Least Squares Model Object
`mve.object`	Minimum Volume Ellipsoid Object

new	Generate a New Object
null	Null Objects
numeric	Numeric Objects
numericSequence	Constructor For numericSequence Class
oldMethods	Version 3 Methods for S Functions
pframe	Construct a Parameterized Data Frame Object
pframe.object	Parametrized Data Frame Objects
poisson	Generate a Family Object
princomp.object	Principal Component Objects
qcc.object	Quality Control Chart Object
quasi	Generate a Family Object
setClass	Define or Re-Define a Class of Objects
setGeneric	Create Generic Function
setGroupGeneric	Create a Group Generic Function
shewhart.object	Shewhart Quality Control Chart Object
single	Single Precision Objects
slot	Extract or Replace Data in Objects With Slots
slotNames	The Names, Classes of the Slots for an Object
terms.object	Class of Objects for Terms in a Model
tree.object	Regression or Classification Tree Object
tree.sequence.object	Regression or Classification Tree Object
ts	Time Series Objects
unclass	Class Attribute of an Object
varcomp.object	Variance Component Objects
vector	Vectors (Simple Objects)
~	Model Formula Objects

Dates Objects

as.bdTimeDate	Big Data Time Date Objects
bdTimeDate	Big Data Time Date Objects
bdTimeSpan	Constructor Function For bdTimeSpan Class
chron	Create a Chronological Object
class.positions	Virtual Classes for Time-Related Objects
class.positionsCalendar	Virtual Classes for Time-Related Objects
class.positionsNumeric	Virtual Classes for Time-Related Objects
class.timeDate	Time and Date Class
class.timeEvent	Event Class
class.timeInterval	Virtual Classes for Time-Related Objects

`class.timeRelative`	Relative Time Class
`class.timeSpan`	Time Span Class
`class.timeZone`	Time Zone Classes
`class.timeZoneC`	Time Zone Classes
`class.timeZoneS`	Time Zone Classes
`cts`	Regular Calendar Time Series Objects
`cut.dates`	Create a Factor from a Dates Object
`dates`	Generate Dates
`day.of.week`	Convert between Julian and Calendar Dates
`days`	Return Various Periods from a Time or Date Object
`format.dates`	Support for Function dates .
`hms`	Return Various Periods from a Time Vector
`holiday.AllSaints`	Holiday Generating Functions
`holiday.Anzac`	Holiday Generating Functions
`holiday.Australia`	Holiday Generating Functions
`holiday.Bastille`	Holiday Generating Functions
`holiday.Canada`	Holiday Generating Functions
`holiday.Christmas`	Holiday Generating Functions
`holiday.Columbus`	Holiday Generating Functions
`holiday.Easter`	Holiday Generating Functions
`holiday.GoodFriday`	Holiday Generating Functions
`holiday.Independence`	Holiday Generating Functions
`holiday.Labor`	Holiday Generating Functions
`holiday.MLK`	Holiday Generating Functions
`holiday.May`	Holiday Generating Functions
`holiday.Memorial`	Holiday Generating Functions
`holiday.NYSE`	Holiday Generating Functions
`holiday.NewYears`	Holiday Generating Functions
`holiday.Presidents`	Holiday Generating Functions
`holiday.Remembrance`	Holiday Generating Functions
`holiday.StPatricks`	Holiday Generating Functions
`holiday.Thanksgiving`	Holiday Generating Functions
`holiday.Thanksgiving.Canada`	Holiday Generating Functions
`holiday.USFederal`	Holiday Generating Functions
`holiday.VE`	Holiday Generating Functions
`holiday.Veterans`	Holiday Generating Functions
`holiday.Victoria`	Holiday Generating Functions
`holiday.fixed`	Holiday Generating Functions

`holiday.nearest.weekday`	Holiday Generating Functions
`holiday.weekday.number`	Holiday Generating Functions
`holidays`	Holiday Generating Function
`hours`	Return Various Periods from a Time Vector
`is.bdTimeDate`	Big Data Time Date Objects
`is.cts`	Regular Calendar Time Series Objects
`julian`	Convert between Julian and Calendar Dates
`leap.year`	Convert between Julian and Calendar Dates
`mdy`	Return Various Periods from a Time Vector
`minutes`	Return Various Periods from a Time Vector
`month.day.year`	Convert between Julian and Calendar Dates
`months`	Return Various Periods from a Time or Date Object
`origin`	Generate Dates
`quarters`	Return Various Periods from a Time or Date Object
`seconds`	Return Various Periods from a Time Vector
`seq.dates`	Sequences of Dates
`timeAlign`	Alignment of Times
`timeCalendar`	Constructor Function For timeDate Objects
`timeConvert`	Convert from one time zone to another.
`timeDate`	Constructor Function for timeDate Objects
`timeDefaults`	Time Class Internal Functions
`timeEvent`	Constructor Function For timeEvent Objects
`timeRelative`	Constructor Function for timeRelative Class
`timeSeq`	Sequences of Times
`timeSequence`	Create a Time Sequence Object
`timeSpan`	Constructor Function For timeSpan Class
`timeZoneC`	Constructor Function for timeZoneC Class
`timeZoneConvert`	Convert Time Zones
`timeZoneList`	Time Zone List
`timeZoneS`	Constructor Function for timeZoneS Class
`wdydy`	Return Various Periods from a Time Vector
`weekdays`	Return Various Periods from a Time or Date Object
`yeardays`	Return Various Periods from a Time Vector
`years`	Return Various Periods from a Time or Date Object

Debugging Tools

`recover`	Interaction after Error

Deprecated Functions	
`Deprecated`	Deprecated Functions
`dbdetach`	Database Manipulation Routines - Generic functions
`dbexists`	Database Manipulation Routines - Generic functions
`dbobjects`	Database Manipulation Routines - Generic functions
`dbobjects.default`	Database Manipulation Routines - Generic functions
`dbread`	Database Manipulation Routines - Generic functions
`dbremove`	Database Manipulation Routines - Generic functions
`dbwrite`	Database Manipulation Routines - Generic functions
`graphics`	Create a Graphics Object
`hpgl`	Hewlett-Packard HP-GL Plotters
`hplj`	Graphics Device for Hewlett-Packard LaserJet Printers
`ls`	List of Datasets in Data Directory
`print.graphics`	Display a Graphics Object
`sas.fget`	Indirectly Load SAS Data into Spotfire S+
`sas.get`	Convert a SAS Dataset to an Spotfire S+ Dataset
`stepfun`	Compute a Step Function
`survreg`	Regression for a Parametric Survival Model
`vu`	Create Vu-Graphs (Slides)
`win.graph`	Deprecated Graphics Device: Use graphsheet Instead
`win.printer`	Deprecated Graphics Device: Use graphsheet Instead
`win3`	Execute a Windows Application

Documentation	
`?`	Online Information on All Sorts of Objects
`JavaHelp`	Online Documentation
`Question.mark`	Online Information on All Sorts of Objects
`Release.Notes`	Spotfire S+ for Windows Release Notes
`TRUNC_AUDIT`	Truncate the Audit File
`again`	Display, Edit, Re-evaluate and Save Past Spotfire S+ Expressions
`args`	Display the Argument List of a Function
`audit.file`	Name of the File Used for the Audit
`find.doc`	Find Help File Containing a Specific Help Topic.
`help`	Online Documentation
`help.findsum`	Help System
`help.off`	Help System

help.on.help	Online Documentation
help.running	Help System
help.start	Help System
history	Display, Edit, Re-evaluate and Save Past S-PLUS Expressions
prompt	Construct Documentation for Function or Data
prompt.data.frame	Construct Documentation for Function or Data
prompt.default	Construct Documentation for Function or Data
promptHtml	Construct HTML Documentation for a Function or Data
readDoc	Read a Documentation File
slynx	Online Documentation
stamp	Time Stamp Output, Graph, and Audit File
topic	List Functions and Datasets Related to a Phrase
version.number	Spotfire S+ Version Information.

Dynamic Graphics

brush	Brush a Matrix of Scatter Plots
double.buffer	Control double buffering of graphics window for dynamic graphics
spin	Display Rotating Three Dimensional Scatterplots

Error Handling

Command.edit	Command Line Editing in Spotfire S+
DBLEPR	Printing from a Fortran Routine
INTPR	Printing from a Fortran Routine
REALPR	Printing from a Fortran Routine
XERROR	Error Output and Termination for Fortran Routines
XERRWV	Error Output and Termination for Fortran Routines
browser	Browse an Object - Generic function
browser.default	Browse Interactively in a Function's Frame
debugger	Computational State at the Time of an Error
dump.calls	Save All Calls or Frames on Errors
dump.frames	Save All Calls or Frames on Errors
error.level	Return or Modify the Current Error Level
getOption	Set or Return Options
info	Information on the Current Spotfire S+
inspect	Diagnostic Evaluation Under Interactive Control
masked	Report Masked S-PLUS Objects
on.exit	Exit Expression For a Function

`options`	Set or Return Options
`problem.summary`	Report the number of warnings and errors so far in the current session.
`restart`	Take Over Error Handling
`send.self`	Send a Signal to the S Process
`std.trace`	Control over Tracing
`std.xtrace`	Control over Tracing
`stop`	Error and Warning Messages
`stopifnot`	Stop if not All True
`sys.trace`	Control over Tracing
`tprint`	Trace Calls to Functions
`trace`	Trace Calls to Functions
`trace.on`	Control over Tracing
`traceback`	Return Call Stack
`try`	Continue after errors
`untrace`	Trace Calls to Functions
`warning`	Error and Warning Messages
`warnings`	Print Warning Messages
`xerror`	Error Message Handling and Control for Fortran Routines
`xerror.clear`	Error Message Handling and Control for Fortran Routines
`xerror.maxpr`	Error Message Handling and Control for Fortran Routines
`xerror.setfile`	Error Message Handling and Control for Fortran Routines
`xerror.summary`	Error Message Handling and Control for Fortran Routines

Genetics Related Functions

`align.pedigree`	Generate Plotting Information for a Pedigree
`autohint`	Align a pedigree to print well
`besthint`	Create a hints matrix for a pedigree.
`familycheck`	Error Check for a Family Classification
`kinship`	Compute a kinship matrix
`lmekin`	Mixed Effects Model Using a Kinship Matrix.
`makefamid`	Identify family groups
`makekinship`	Create a sparse kinship matrix
`pedigree`	Create Pedigree Structure
`plot.pedigree`	Plot Pedigrees

Graphical Devices

`.Device`	Control Multiple Graphics Devices

`.Devices`	Control Multiple Graphics Devices
`Device.Default`	Initialize Graphics Device
`Devices`	List of Graphical Devices
`close.screen`	Split a Graphics Display and Control Multiple Screens
`dev.ask`	Pause between Plots
`dev.control`	Copy Graphics Between Graphics Devices
`dev.copy`	Copy Graphics Between Graphics Devices
`dev.cur`	Control Multiple Graphics Devices
`dev.list`	Control Multiple Graphics Devices
`dev.next`	Control Multiple Graphics Devices
`dev.off`	Control Multiple Graphics Devices
`dev.prev`	Control Multiple Graphics Devices
`dev.print`	Copy Graphics Between Graphics Devices
`dev.set`	Control Multiple Graphics Devices
`dev.start`	Control Multiple Graphics Devices
`emf.graph`	Enhanced Metafile Graphics Device
`erase.screen`	Split a Graphics Display and Control Multiple Screens
`graphics.off`	Turn Off All Graphics Devices
`graphsheet`	Graphics Device for Windows/NT
`graphsheet.options`	Options for graphsheet Graphics Device
`java.graph`	Graphics Device for Java-Enabled Spotfire S+
`motif`	Graphics Device for the X11 Window System
`pdf.graph`	Graphics Device to Produce Adobe Portable Document Format
`postscript`	Graphics Device for PostScript Printers
`printer`	Graphics Device for Any Terminal
`prompt.screen`	Split a Graphics Display and Control Multiple Screens
`ps.colors.rgb`	Colors for PostScript driver
`ps.hsb2rgb`	Convert PostScript Color Specifications
`ps.options`	Set or Return PostScript Options
`ps.options.send`	Send PostScript Options
`ps.paper.regions`	Imageable Regions for PostScript Printers
`ps.rgb2hsb`	Convert PostScript Color Specifications
`ps.setcolor.hsb`	PostScript Procedures for Setting Colors
`ps.setcolor.rgb`	PostScript Procedures for Setting Colors
`ps.setfont.latin1`	PostScript Procedures for Font Selection
`ps.setfont.std`	PostScript Procedures for Font Selection
`pscript`	Graphics Device for PostScript Printers

`rgb2matrix`	Convert X11 rgb.txt file to matrix
`screen`	Split a Graphics Display and Control Multiple Screens
`split.screen`	Split a Graphics Display and Control Multiple Screens
`tek14`	Tektronix Graphics Devices
`tek14q`	Tektronix Graphics Devices
`tree.screens`	Partition the Graphics Area for Tree Plots
`win.colorscheme`	Set the Color Scheme Used By graphsheet .
`wmf.graph`	Windows Metafiles Graphics Device
`xgetrgb`	Inquire current color settings

Hexagonal Binning

`cell2xy`	Compute x , y Coordinates From Hexagon Cell Ids
`erode.hexbin`	Erode a Hexagonally Binned Image
`hex.legend`	Add a Legend Hexagonal Lattice Plot
`hexagons`	Add Hexagonal Cells to Plot of "hexbin" Object
`hexbin`	Bivariate Binning into Hexagonal Cells
`identify.hexbin`	Identify Points On a Hexagonal Binned Plot
`panel.hexbin`	Panel Function for Hexbins
`panel.hexbin.lmline`	Panel Function for Hexbins
`panel.hexbin.loess`	Panel Function for Hexbins
`panel.hexbin.smooth.spline`	Panel Function for Hexbins
`plot.hexbin`	Plot A Hexagonal Lattice
`rayplot`	Adds Rays with Optional Confidence Arcs (Sectors)
`smooth.hexbin`	Hexagonal Bin Smoothing
`summary.hexbin`	Summary Method for a Hexagonally Binned Object
`xy2cell`	Compute Hexagon Cell Ids From x and y

High-Level Plots

`acf.plot`	Plot Autocovariance or Autocorrelation
`arima.diag.plot`	Plot Diagnostics for ARIMA Model
`barplot`	Bar Graph
`bd.crosstabs`	Create Crosstabulation
`biplot`	Biplot of Multivariate Data
`biplot.default`	Biplot of Multivariate Data
`biplot.factanal`	Biplots for Principal Components and Factor Analysis Models
`biplot.princomp`	Biplots for Principal Components and Factor Analysis Models
`boxplot`	Boxplots

`bxp`	Boxplots From Processed Data
`clusplot`	Clusplot - Generic Function
`clusplot.default`	Bivariate clusplot
`clusplot.partition`	Bivariate Clusplot of a Partitioning Object
`contour`	Contour Plot
`contour.old`	Contour Plot
`coplot`	Conditioning Plot
`dotchart`	Draw a Dot Chart
`error.bar`	Plot Pointwise Error Bars
`faces`	Plot Symbolic Faces
`graphsheet.options`	Options for graphsheet Graphics Device
`hist`	Plot a Histogram
`hist.factor`	Plot a Histogram
`image`	Plot a Grayscale or Color Image
`interaction.plot`	Two-Way Interaction Plots
`lag.plot`	Plot Lagged Scatter Plots
`monthplot`	Seasonal Subseries Plot
`mulbar`	Multiple Bar Plot
`nclass.fd`	Freedman-Diaconis Method for Histogram Bin Counts
`nclass.scott`	Scott Method for Histogram Bin Counts
`nclass.sturges`	Sturges Method for Histogram Bin Counts
`pairs`	Produce All Pairwise Scatter Plots - Generic Function
`pairs.data.frame`	Produce a Scatterplot Matrix for a Data Frame
`pairs.default`	Produce a Scatterplot Matrix
`par`	Graphical Parameters
`partition.tree`	Plot a Low-Dimensional Tree Object
`persp`	Three-Dimensional Perspective Plots
`pie`	Pie Charts
`plclust`	Plot Trees From Hierarchical Clustering
`plot`	Plots - Generic function
`plot.aareg`	Plot an aareg Object
`plot.agnes`	Plots of an Agglomerative Hierarchical Clustering
`plot.bdPrincomp`	Plot of the Variances of Derived Variables
`plot.bdSignalSeries`	Big-Data Signal Plot
`plot.bdTimeSeries`	Big-Data Calendar Time Series Plot
`plot.compare.fits`	Comparison Plots for Linear Models
`plot.data.frame`	Distributional Plots of Variables in a Data Frame
`plot.default`	Scatter Plots

`plot.design`	Plot a Function of Each Level of Factors or Terms
`plot.diana`	Plots of a Divisive Hierarchical Clustering
`plot.factor`	Summary Plots by Factors
`plot.gam`	Plot Components of a GAM Object
`plot.glm`	Generate Diagnostic Plots for a GLM Object
`plot.hexbin`	Plot A Hexagonal Lattice
`plot.kaplanMeier`	Plot Method for kaplanMeier
`plot.lmRobMM`	Generate Diagnostic Plots for a Robust LM Object
`plot.lme`	Plot an lme Object
`plot.lms`	Diagnostic Plots for an "lms" Object
`plot.loadings`	Plot Loadings
`plot.loess`	Display of Fitted LOESS Models by Coplots
`plot.lts`	Diagnostic Plots for an "lts" Object
`plot.mcd`	Diagnostic Plots for an "mcd" Object
`plot.mlm`	Plot a Multiresponse Linear Model
`plot.mona`	Banner of Monothetic Divisive Hierarchical Clusterings
`plot.multicomp`	Confidence Bound Plots
`plot.mve`	Diagnostic Plots for an "mve" Object
`plot.partition`	Plot of a Partition of the Data Set
`plot.pedigree`	Plot Pedigrees
`plot.preplot.gam`	Plot Components of a GAM Object
`plot.preplot.loess`	Display Local Regression Surface
`plot.princomp`	Plot of the Variances of Derived Variables
`plot.signalSeries`	Signal Plot
`plot.survfit`	Plot Method for survfit
`plot.timeSeries`	Calendar Time Series Plot
`plot.times`	Plot Method for Dates or Times Objects
`plot.tree`	Plot a Tree Object
`plot.varcomp`	Plot of Random Components
`plotTimeDate`	Plot a timeDate Object
`plotfit`	Plot of a Two-Way Fit
`pltree`	Clustering Trees - Generic Function
`pltree.agnes`	Clustering Tree Of Agglomerative Hierarchical Clusterings
`pltree.diana`	Clustering Tree Of Divisive Hierarchical Clusterings
`pltree.hierarchical`	Clustering Tree of an Agglomerative or a Divisive Hierarchical Clustering
`preplot.loess`	Display of Fitted LOESS Models by Coplots
`qqnorm`	Quantile-Quantile Plots - Generic Function

`qqnorm.default`	Quantile-Quantile Plots - Generic Function
`qqplot`	Quantile-Quantile Plots - Generic Function
`rayplot`	Adds Rays with Optional Confidence Arcs (Sectors)
`sablplot`	Plot a Sabl Decomposition
`scatter.smooth`	Scatter Plot with a Smooth Curve
`screeplot`	Plot of the Variances of Derived Variables
`screeplot.bdPrincomp`	Plot of the Variances of Derived Variables
`screeplot.princomp`	Plot of the Variances of Derived Variables
`smatrix`	Symbolic Matrix for Multivariate Data
`spec.pgram`	Estimate Spectrum with Smoothed Periodogram
`spec.plot`	Plot Spectra
`spectrum`	Estimate Spectrum of Time Series
`stars`	Star Plots of Multivariate Data
`starsymb`	Plot a Single Star Symbol
`stem`	Stem and Leaf Display
`symbols`	Draw Symbols on a Plot
`tslines`	Plot Multiple Time Series
`tsplot`	Plot Multiple Time Series
`tspoints`	Plot Multiple Time Series
`usa`	United States Coastline and State Boundaries

Input/Output-Files

`.System`	Execute a UNIX Command
`contentsData`	Gets the Names of All Data Sets, Sheets, or Tables in a Specified Data File or Database
`Sys.getenv`	Get Environment Variables
`Sys.getlocale`	Set or get locale-specific information
`Sys.getpid`	Get Process ID
`Sys.localeconv`	Set or get locale-specific information
`Sys.putenv`	Set Environment Variables
`Sys.setlocale`	Set or get locale-specific information
`Sys.setenv`	Sets Environment Variables for Use by Other Processes Called from Spotfire S+
`Sys.withlocale`	Set or get locale-specific information
`again`	Display, Edit, Re-evaluate and Save Past S-PLUS Expressions
`basename`	Manipulate File Paths
`cat`	General Printing
`close`	Connection Objects

`closeDBConnection`	Closes open connection to an ODBC data source
`closeData`	Close A Data Handle
`count.fields`	Count the Number of Fields per Line
`data.dump`	Produce Text Representations of S-PLUS Objects
`data.restore`	Bring Back Data-Dumped Objects
`dget`	Write a Text Representation of an S-PLUS Object
`dir`	Manipulate File Paths
`dir.create`	File and Directory Manipulation
`dirname`	Manipulate File Paths
`dos`	Execute a DOS Command
`dput`	Write a Text Representation of an S-PLUS Object
`dump`	Produce Text Representations of S-PLUS Objects
`dumpChapter`	Dump Objects in Specified Chapter
`executeSQL`	Execute SQL Queries
`executeSql`	Execute SQL Queries
`exportData`	Export Data
`fifo`	Connection Objects
`file`	Connection Objects
`file.append`	File and Directory Manipulation
`file.copy`	File and Directory Manipulation
`file.create`	File and Directory Manipulation
`file.exists`	Check if a File Exists
`file.info`	File and Directory Manipulation
`file.realpath`	Absolute path name for a file.
`file.remove`	Absolute path name for a file.
`file.rename`	Absolute path name for a file.
`file.show`	Display Files
`file.splitpath`	Split a File Path
`files.in.dir`	Files in a Directory
`getDataInfo`	Information on Data File Via a Data Handle
`getenv`	Get Environment Variables
`history`	Display, Edit, Re-evaluate and Save Past S-PLUS Expressions
`html.table`	Generate HTML Table of Data
`importData`	Import Data
`importObjToDF`	Create a Data Frame From an Import Object
`initSybaseConnection`	Utility functions for importData and exportData
`inputWaiting`	Check Connection.

`is.dir`	Check if a Directory Exists
`is.symlink`	Check if a Directory Exists
`isDatabaseType`	Utility functions for importData and exportData
`isDirectDatabaseType`	Utility functions for importData and exportData
`isOpen`	Check Connection.
`list.files`	List the Files in a Directory
`mkdir`	Make a Directory
`new.database`	Make a New Directory Database
`open`	Connection Objects
`openDBConnection`	Maintains open connection to an ODBC data source between calls
`openData`	Open an External Data File
`openOrImportData`	Open and/or Import Data
`path.expand`	Expand ~ in File Paths
`pipe`	Connection Objects
`printgraph`	Print the Current Plot
`read.dcf`	Read and Write Data in DCF Format
`read.from.clipboard`	Read Text from the Windows Clipboard
`read.table`	Create a Data Frame by Reading a Table
`readNextDataRows`	Read Next Block of Rows from External File
`readline`	Read a Line from the Terminal
`rmdir`	Remove a Directory
`scan`	Input Data from a File or Connection
`sink`	Send Spotfire S+ Output to a File
`sink.number`	Send Spotfire S+ Output to a File
`source`	Parse and Evaluate Spotfire S+ Expressions from a File
`stderr`	Connection Objects
`stdin`	Connection Objects
`stdout`	Connection Objects
`systemfile`	Find Names of Spotfire S+ System Files
`textConnection`	Connection Objects
`unix`	Execute a UNIX Command
`unix.shell`	Execute a UNIX Command
`unlink`	Remove a File
`write`	Write Data to ASCII File
`write.dcf`	Reads and Writes Data in Dcf Format
`write.table`	Write Matrix of Data to a File
`write.to.clipboard`	Copy Text to the Windows Clipboard

`writeNextDataRows`	Write a Data Frame to an External File

Interacting with Plots

`dev.ask`	Pause between Plots
`frame`	Advance Graphics Device to Next Frame or Figure
`graphicsmode`	Redraw Graphics and Change Graphics Terminal State
`identify`	Identify Points on Plot - Generic Function
`identify.cusum`	Identify Points On a Cusum Quality Control Chart.
`identify.default`	Identify Points on Plot - Generic Function
`identify.hexbin`	Identify Points On a Hexagonal Binned Plot
`identify.shewhart`	Identify Points On a Shewhart Quality Control Chart.
`identify.tree`	Identify Observations in Tree Nodes
`identify.xyplot`	Identify Points on Trellis Xyplot
`locator`	Get Coordinates from Plot
`locator.2dtrellis`	Get Coordinates from Trellis Plot
`menu`	Menu Interaction Function
`path.tree`	Follow Paths to Selected Nodes of a Tree
`printgraph`	Print the Current Plot
`redraw`	Redraw Graphics and Change Graphics Terminal State
`textmode`	Redraw Graphics and Change Graphics Terminal State
`xgetrgb`	Inquire current color settings

Interfaces to Other Languages

`.C`	Call a Fortran or C Routine
`.First.lib`	Shared Functions and Data Sets
`.Fortran`	Call a Fortran or C Routine
`.Internal`	Call Internal C Code
`.Last.lib`	Shared Functions and Data Sets
`.System`	Execute a UNIX Command
`contentsData`	Gets the Names of All Data Sets, Sheets, or Tables in a Specified Data File or Database
`DBLEPR`	Printing from a Fortran Routine
`INTPR`	Printing from a Fortran Routine
`NM`	Display Symbol Table of Compiled Code
`REALPR`	Printing from a Fortran Routine
`S_alloc`	Storage Allocation in C
`XERROR`	Error Output and Termination for Fortran Routines
`XERRWV`	Error Output and Termination for Fortran Routines

as.double	Double Precision Objects
as.single	Single Precision Objects
call_S	Call Spotfire S+ from a C Routine
dos	Execute a DOS Command
double	Double Precision Objects
executeSQL	Execute SQL Queries
executeSql	Execute SQL Queries
exportData	Export Data
importData	Import Data
interactive	Test For Interactive Execution of S
is.double	Double Precision Objects
is.loaded	Code Availability
is.single	Single Precision Objects
library	Shared Functions and Data Sets
module	Access Add-On Module
openData	Open an External Data File
openOrImportData	Open and/or Import Data
perl	Call Perl from within Spotfire S+
sas.contents	List the Variables in a SAS Dataset
sas.datasets	List SAS Datasets Stored in a Directory
single	Single Precision Objects
symbol.C	Code Availability
symbol.For	Code Availability
symbol.S	Code Availability
unix	Execute a UNIX Command
unix.shell	Execute a UNIX Command
xerror	Error Message Handling and Control for Fortran Routines
xerror.clear	Error Message Handling and Control for Fortran Routines
xerror.maxpr	Error Message Handling and Control for Fortran Routines
xerror.setfile	Error Message Handling and Control for Fortran Routines
xerror.summary	Error Message Handling and Control for Fortran Routines

Jackknife Methods

jackknife	General Nonparametric Jackknife
jackstats	Calculate Jackknife Statistics
plot.resamp	Plot Method for Resample Objects
print.resamp	Print a Resample Object
print.summary.resamp	Print a Summary of Resample Object

qqnorm.resamp	Quantile-Quantile Plots for Resample Objects
resamp.get.dimnames	Support for Bootstrap and Jackknife
resamp.get.fit.func	Support for Bootstrap and Jackknife
resamp.get.indices	Support for Bootstrap and Jackknife
summary.resamp	Summary Method for Resample Objects

Library of Correlated Data Methods

ACF.glme	Autocorrelation Function for glme Residuals
Prostate	Prostate cancer data of American men from a subset of SEER Data
Seizure	Effect of progabide on frequency of seizures.
Socatt	British Social Attitudes Survey - 1983
SpruceGrpd	Growth of sitka spruce trees over three growing seasons.
Terat.Binary	Teratological Data on Rats
Variogram.glme	Calculate Semi-variogram for Residuals from a glme Object
Wheeze	Data on Health Effects of Air Pollution
cgeefit	Function to call C++ Cgeefit Function
coef.gee	Extracts coefficients from gee Objects
corDesign	Create a Multiblock or a Multilayer Correlation Design
corDesign.object	Multiblock or Multilayer Correlation Design Object
fitted.gee	Compute fitted values for for gee Objects
fitted.glmList	Extract glmList Fitted Values
fitted.glme	Extract glme Fitted Values
fitted.glmeStruct	Calculate glmeStruct Fitted Values
gee	Fit a Generalized Estimation Equation Model
gee.fit	Fit a Generalized Estimation Equation Model with Structured Covariance
gee.fit.object	Generalized Estimating Equation Object
gee.object	Generalized Estimating Equation Object
geeControl	Set Control Parameters for Generalized Estimation Equation Models
geeDesign	Design a Generalized Estimation Equation Model
geeDesign.object	Generalized Estimating Equation Design Object
glmList	List of glm Objects with a Common Model
glmList.groupedData	glmList Fit from a groupedData Object
glme	Generalized Linear Mixed-Effects Models
glme.glmList	GLME fit from glmList Object
glme.groupedData	GLME fit from groupedData Object
glmeStruct	Generalized Linear Mixed-Effects Structure

`initialize.glmeStruct`	Initialize a glmeStruct Object
`intervals.glme`	Confidence Intervals on glme Parameters
`predict.glmList`	Predictions from a glmList Object
`predict.glme`	Predictions from an glme Object
`print.glmList`	Print a glmList Object
`print.glme`	Print a glme Object
`print.summary.glmList`	Print a summary.glmList Object
`print.summary.glme`	Print a summary.glme Object
`ranDesign`	Specify a Mixed Models to be fit with Generalized Estimating Equations
`recordDesign`	Sort a Data Frame by Specified Variables and Provide Record IDs
`residuals.gee`	Computes residuals for gee Objects
`residuals.glmList`	Extract glmList Residuals
`residuals.glme`	Extract glme Residuals
`residuals.glmeStruct`	Calculate glmeStruct Residuals
`summary.glmList`	Summarize a glmList Object
`summary.glme`	Summarize a glme Object
`summary.recordDesign`	Summary Method for recordDesign Objects
`update.glmList`	Update a glmList Object
`update.glme`	Update a glme Object
`varDesign`	Create a Variance Design for a Generalized Estimating Equation Model
`varDesign.object`	Variance Design Object
`xglm`	Fit Extended Generalized Linear Model

Library of Missing Data Methods

`Gauss`	Multivariate Normal Model Object
`Gauss.object`	Multivariate Normal Model Object
`Gauss.start`	Initial Values for Gauss functions
`Gauss.start.default`	Initial Values for Gauss functions
`Gauss.start.preGauss`	Initial Values for Gauss functions
`GaussNames`	Parameter Names For Multivariate Normal Models
`Loglin`	Log-Linear Model Object
`Loglin.get.x`	Compute the Model Matrix
`Loglin.object`	Log-Linear Model Object
`LoglinNames`	Cell Names For Log-Linear Models
`[.Gauss`	Extract or Replace Parts of an Object
`[.Loglin`	Extract or Replace Parts of an Object

`[.cgm`	Extract or Replace Parts of an Object
`[.miVariable`	Subscript an miVariable Object
`algorithm`	Model Algorithm
`all.names.assigned`	Find Names in an Expresion
`all.names.used`	Find Names in an Expresion
`as.miList`	Create "miList" Object
`as.miVariable`	Create "miVariable" Object
`belt`	Seatbelt use in Injury Accidents
`cgm`	Conditional Multivariate Gaussian Model Object
`cgm.object`	Conditional Multivariate Gaussian Model Object
`cgm.start`	Starting Values in Conditional Multivariate Gaussian Models
`cgmDesign`	Get Design Matrix in Conditional Gaussian Models
`cgmLmCoef`	Linear Model Coefficient in Conditional Gaussian Models
`cgmNames`	Parameter Names For Conditional Multivariate Gaussian Models
`check.Cgm.prior`	Check Log-linear component of the CGM Prior.
`check.Gauss.prior`	Check an normal Inverse Wishart Prior
`check.Loglin.prior`	Parameters in a Log-linear Model Prior.
`chi.Loglin`	chi-squared statistic for incomplete categorical data
`cholesterol`	Example data frames for missing data library
`cholesterolImpExample`	Example data frames for missing data library
`completeCgm`	Conditional Gaussian Model for Complete Data
`completeGauss`	Multivariate Normal Models for Complete Data
`completeLoglin`	Log-Linear Models for Complete Data
`convertLoglin`	Contingency table to data frame
`crime`	Categorical Crime Data
`crimeImpExample`	Categorical Crime Data
`da.object`	"da" Object
`daAcfPlot`	ACF Plots for missmodel objects
`daCgm`	Data Augmentation for Conditional Gaussian Models
`daCgm.control`	Set Control Parameters for daCgm
`daCgm.default`	Data Augmentation for Conditional Gaussian Models
`daCgm.methods`	Data Augmentation for Conditional Gaussian Models
`daCgm.missmodel`	Data Augmentation for Conditional Gaussian Models
`daCgm.preCgm`	Data Augmentation for Conditional Gaussian Models
`daGauss`	Data Augmentation for Multivariate Normal Models
`daGauss.control`	Set Control Parameters for daGauss

daGauss.default	Data Augmentation for Multivariate Normal Models
daGauss.methods	Data Augmentation for Multivariate Normal Models
daGauss.missmodel	Data Augmentation for Multivariate Normal Models
daGauss.preGauss	Data Augmentation for Multivariate Normal Models
daLoglin	Data Augmentation for Log-Linear Models
daLoglin.compute	Data Augmentation for Log-Linear Models
daLoglin.control	Set Control Parameters for daLoglin
daLoglin.default	Data Augmentation for Log-Linear Models
daLoglin.methods	Data Augmentation for Log-Linear Models
daLoglin.missmodel	Data Augmentation for Log-Linear Models
daLoglin.preLoglin	Data Augmentation for Log-Linear Models
dataDepPrior	Data Dependent Priors.
dataDepPrior.preCgm	Data Dependent Prior for CGM
dataDepPrior.preGauss	Data Dependent Prior; Gaussian Model
dataDepPrior.preLoglin	Data Dependent Prior; Log-linear Model
em.object	"em" Object
emCgm	EM Algorithm for Conditional Gaussian Models
emCgm.control	Set Control Parameters for emCgm
emCgm.default	EM Algorithm for Conditional Gaussian Models
emCgm.methods	EM Algorithm for Conditional Gaussian Models
emCgm.missmodel	EM Algorithm for Conditional Gaussian Models
emCgm.preCgm	EM Algorithm for Conditional Gaussian Models
emGauss	EM Algorithm for Multivariate Normal Models
emGauss.control	Set Control Parameters for emGauss
emGauss.default	EM Algorithm for Multivariate Normal Models
emGauss.degenerate	Estimates in Multivariate Normal Models
emGauss.methods	EM Algorithm for Multivariate Normal Models
emGauss.missmodel	EM Algorithm for Multivariate Normal Models
emGauss.preGauss	EM Algorithm for Multivariate Normal Models
emLoglin	EM Algorithm for Log-Linear Models
emLoglin.compute	EM Algorithm for Log-Linear Models
emLoglin.control	Set Control Parameters for emLoglin
emLoglin.default	EM Algorithm for Log-Linear Models
emLoglin.methods	EM Algorithm for Log-Linear Models
emLoglin.missmodel	EM Algorithm for Log-Linear Models
emLoglin.preLoglin	EM Algorithm for Log-Linear Models
get.margins.Loglin	Computes Marginal Models
impCgm	Impute Both Factor and Numeric Data

impCgm.default	Impute Data under CGM
impCgm.methods	Impute Data under CGM
impCgm.missmodel	Impute Data under CGM
impCgm.preCgm	Impute Data under CGM
impGauss	Impute Multivariate Normal Data
impGauss.default	Impute Multivariate Normal Data
impGauss.methods	Impute Multivariate Normal Data
impGauss.missmodel	Impute Multivariate Normal Data
impGauss.preGauss	Impute Multivariate Normal Data
impLoglin	Impute Factor Data
impLoglin.default	Impute Factor Data
impLoglin.methods	Impute Factor Data
impLoglin.missmodel	Impute Factor Data
impLoglin.preLoglin	Impute Factor Data
is.mi	Presence of Multiple Imputations
is.miList	Presence of Multiple Imputations
is.miVariable	Presence of Multiple Imputations
is.missmodel	"missmodel" Objects
is.preCgm	"preCgm" Objects
is.preGauss	"preGauss" Objects
is.preLoglin	"preLoglin" Objects
language	Foreign Language Attitude Scale data
languageImpExample	Foreign Language Attitude Scale data
length.miVariable	Length of an miVariable object.
length<-.miVariable	Length of an miVariable object.
logpost	Compute Log-Posterior Mode
logpost.Gauss	Log-posterior Density for Multivariate Normal Models
logpost.Gauss.compute	Mode of Log-posterior Distribution
logpost.Loglin	Log-Posterior Density for Incomplete Factor Data
logpost.cgm	Log-posterior Density for Conditional Gaussian Models
marijuana	Changes in Heart Rate due to Marijuana Use
mcar	Diagnostics for "Missing Completely At Random"
mdCgm	Estimates for Conditional Gaussian Models
mdGauss	Estimates for Multivariate Normal Models
mdLoglin	Estimates for Loglinear Models
mi.object	Multiple imputations object
miAnova	Compute an Anova Table for a Multiple Imputations Object - Generic function

`miAnovaAux`	Compute an Anova Table for a Multiple Imputations Object - Generic function
`miApply`	Apply a Function to Multiple Imputations
`miChiSquareTest`	Combine Multiple Imputation Inferences
`miDiscard`	Discard Multiple Imputations
`miEval`	Evaluate an Expression in Parallel for Multiple Imputations
`miEvalA`	Evaluate an Expression in Parallel for Multiple Imputations
`miFTest`	Combine Multiple Imputation Inferences
`miLikelihoodTest`	Combine Multiple Imputation Inferences
`miList`	Create "miList" Object
`miList.object`	Multiple imputations object
`miMean`	Compute Means or Variances Across Imputations
`miMeanSE`	Combine Multiple Imputation Inferences
`miMeanSEAux`	Combine Multiple Imputation Inferences
`miMeanSEAux.lm`	Combine Multiple Imputation Inferences
`miMeanSEDefault`	Combine Multiple Imputation Inferences
`miMeanSEList`	Combine Multiple Imputation Inferences
`miMeanSEMatrix`	Combine Multiple Imputation Inferences
`miModifyExpr`	Modify an Expression for Multiple Imputation Evaluation
`miNames`	Names of Multiple Imputations
`miPrint`	Print an object containing multiple imputations
`miReps`	Number of Multiple Imputations
`miSubscript`	Extract or assign a single multiple imputation set
`miSubscript<-`	Extract or assign a single multiple imputation set
`miSummary`	Summary for Multiple Imputations Objects - Generic Function
`miSummaryAux`	Summary for Multiple Imputations Objects - Generic Function
`miSummaryAux.default`	Summary for Multiple Imputations Objects - Generic Function
`miSummaryAux.lm`	Summary Method for Multiple Imputation Linear Models
`miTrim`	Reorganize a Multiple Imputations Object
`miTrimAux`	Reorganize a Multiple Imputations Object
`miVar`	Compute Means or Variances Across Imputations
`miVariable`	Create "miVariable" Object
`miVariable.object`	Multiple imputations object
`miss`	Describe Missing Data Patterns
`missmodel.object`	"missmodel" Object
`paramIter`	Extract Parameters from a missmodel Object

paramIter.Gauss	Extract Parameters from a missmodel Object
paramIter.Loglin	Extract Parameters from a missmodel Object
paramIter.cgm	Extract Parameters from a missmodel Object
paramIter.missmodel	Extract Parameters from a missmodel Object
plot.mcar	Plot diagnostics for "Missing Completely at Random" (MCAR)
plot.miss	Graphically displays pattern of missing data
plot.missmodel	Plots a "missmodel" object produced by data augmentation
preCgm	Preprocessor for Conditional Gaussian Model Routines
preCgm.object	Class "preCgm"
preGauss	Preprocessor for Multivariate Normal Model Routines
preGauss.object	Class "preGauss"
preLoglin	Preprocessor for Log-Linear Models Routines
preLoglin.object	Class "preLoglin"
print.Gauss	Print a Class "Gauss" Object
print.Loglin	Print a Class "Loglin" Object
print.cgm	Print a Class "cgm" Object
print.da	Print a Class "da" Object
print.em	Print a Class "em" Object
print.mcar	Print tests for "Missing Completely at Random" (MCAR)
print.miSummary.lm	Use print on an miSummary.lm object
print.miss	Print information about missing value patterns.
print.missmodel	Print a Class "missmodel" Object
print.preCgm	Print a Class "preCgm" Object
print.preGauss	Print a Class "preGauss" Object
print.preLoglin	Print a Class "preLoglin" Object
priorGauss	Prior Parameters in Multivariate Normal Model
priorLoglin	Prior Parameters in Log-linear Model
prot.dat	Protective Service Data
redundantList	Check list for redundancy
show.miVariable	Print an miVariable object
stlouis3	St. Louis Risk Research Project
summary.miVariable	Summarize an miVariable object
summary.miss	Print information about missing value patterns.
worstFraction	Worst Fraction of Missing Information
worstFraction.Gauss	Worst Fraction of Missing Information
worstFraction.Loglin	Worst Fraction of Missing Information
worstFraction.cgm	Worst Fraction of Missing Information

worstFraction.methods	Worst Fraction of Missing Information
worstLinFun	Calculate "worst linear function of the parameters"

Library of Robust Methods

RCp	A Robust Version of Mallows' Cp
add1.lmRob	Add Terms to a Robust Linear Model Object
anova.lmRob	Use anova() on an lmRob object
aovRob	Fit a Robust Analysis of Variance Model
chi.weight	Chi (Weight) Function
cor.lmRob	Robust Correlation Matrix
cov.lmRob	Robust Covariance Matrix
covRob	Robust Covariance/Correlation Matrix Estimation
covRob.control	Control Parameters for Robust Covariance Estimation
crossvalidate.discRob	Crossvalidation Method for class discRob
deviance.lmRob	Use deviance() on an lmRob object
discRob	Robust Discriminant Analysis
drop1.lmRob	Compute an Anova Object by Dropping Terms
fit.models	Model Comparison
gammaMLE	Maximum Likelihood Parameter Estimates for Asymmetric Distributions
gammaMLE.control	Control for MLE Estimate of a Gamma Distribution
gammaRob	Robust Asymmetric Distribution Parameter Estimates
gammaRob.control	Control for the Robust Gamma Parameter Estimator
glmRob	Fit a Robust Generalized Linear Model
glmRob.cubif.control	Control for Bounded Influence Robust GLM Estimator
glmRob.mallows.control	Control for Mallows-type Robust GLM Estimator
glmRob.misclass.control	Control for Misclassification Robust GLM Estimator
glmRob.object	Robust Generalized Linear Model Objects
identify.cov	Identify a cell in a Correlation Image Display
image.cov	Correlation Image Display
import.dat	Monthly Imports and Import Taxes of Argentina
lawson.dat	Lawson and Gold Data Set
lmRob	High Breakdown and High Efficiency Robust Linear Regression
lmRob.RFPE	Robust Final Prediction Errors
lmRob.effvy	Constant for the Optimal Loss (Weight) Function
lmRob.fit.compute	Fit a Robust Linear Model
lmRob.genetic.control	Control for Robust Linear Regression with Genetic Algorithm

`lmRob.object`	Robust Linear Model Objects
`lmRob.robust.control`	Control Parameters for Robust Linear Regression
`lmRobBI`	Bounded Influence Robust Regression
`lmRobBI.bRobust`	Utility Functions for Bounded Influence Robust Regression
`lmRobBI.control`	Control Parameters for Bounded Influence Robust Regression
`lmRobBI.cov0`	Utility Functions for Bounded Influence Robust Regression
`lmRobBI.cov1`	Utility Functions for Bounded Influence Robust Regression
`lmRobBI.eff`	Tuning Constant for Bounded Influence Estimator
`lmRobBI.fit.S`	Utility Functions for Bounded Influence Robust Regression
`lmRobBI.object`	Robust Linear Model Objects - Bounded Influence Estimator
`lmRobBI.ts1`	Utility Functions for Bounded Influence Robust Regression
`lognormMLE`	Maximum Likelihood Parameter Estimates for Asymmetric Distributions
`lognormRob`	Robust Asymmetric Distribution Parameter Estimates
`lognormRob.control`	Control Parameters for the Robust Lognormal Parameter Estimators
`newtaxes.dat`	Monthly Import Taxes of Argentina
`plot.RCp`	Create an RCp Plot
`plot.aovRob`	Plots for Robust Analysis of Variance Models
`plot.aovfm`	Comparison Plots for Analysis of Variance Models
`plot.asymfm`	Comparison Plots for Fitted Asymmetric Distributions
`plot.asymmetric.dstn`	Diagnostic Plots for Asymmetric Distribution Models
`plot.covRob`	Plot Method for Objects of Class "covRob"
`plot.covfm`	Comparison Plots for Covariance/Correlation Models
`plot.fit.models`	Plot Dispatch for fit.models Objects
`plot.gammaMLE`	Diagnostic Plots for Asymmetric Distribution Models
`plot.gammaRob`	Diagnostic Plots for Asymmetric Distribution Models
`plot.glmRob`	Diagnostic Plots for Robustly Fitted Generalized Linear Models
`plot.glmfm`	Comparison Plots for Generalized Linear Models
`plot.lmRob`	Diagnostic Plots for Robustly Fitted Linear Models
`plot.lmRobBI`	Plot an lmRobBI Object
`plot.lmfm`	Comparison Plots for Linear Regression Models
`plot.lognormMLE`	Diagnostic Plots for Asymmetric Distribution Models
`plot.lognormRob`	Diagnostic Plots for Asymmetric Distribution Models
`plot.pcompfm`	Comparison Plots for Principal Components Models
`plot.princompRob`	Plot Method for Robust Principal Components Objects

`plot.table.rq`	Plot Table of Quantile Regression Results
`plot.weibullMLE`	Diagnostic Plots for Asymmetric Distribution Models
`plot.weibullRob`	Diagnostic Plots for Asymmetric Distribution Models
`predict.discRob`	Prediction Method for class discRob
`predict.lmRob`	Use predict() on an lmRob Object
`princompRob`	Robust Principal Component Analysis
`print.lmRobBI`	Print Method for an lmRobBI Object
`print.lmRobMM`	Use print() on an lmRobMM object
`print.summary.lmRobBI`	Print Method for a summary.lmRobBI
`print.summary.lmRobMM`	Print Method for a summary.lmRobMM Object
`psi.weight`	Psi (Weight) Function
`psp.weight`	Psp (Weight) Function
`ranks`	Quantile Regression Ranks
`residuals.glmRob`	Use residuals() on a glmRob object
`residuals.lmRob`	Use residuals() on an lmRob Object
`residuals.lmRobBI`	Compute Residuals from an lmRobBI Object
`rho.weight`	Rho (Weight) Function
`rq`	Quantile Regression
`rq.fit.br`	Quantile Regression Fitting by Exterior Point Methods
`rq.fit.fn`	Quantile Regression Fitting via Interior Point Methods
`rq.object`	Linear Quantile Regression Process Object
`rrs.test`	Quantile Regression Rankscore Test
`rsquared.lmRob`	Robust R-Squared
`scale.lmRob`	Robust Scale Estimate
`smooth.splineRob`	
`summary.RCp`	Summary Method for RCp class objects
`summary.aovRob`	Summary Method for class "aovRob"
`summary.aovfm`	Summary Method for Analysis of Variance Models
`summary.asymfm`	Summary Method for Asymmetric Distribution Models
`summary.asymmetric.dstn`	Summary Method for Asymmetric Distribution Models
`summary.covRob`	Summary Method for Objects of Class "covRob"
`summary.covfm`	Summary Method for Covariance/Correlation Models
`summary.discRob`	Summary method for class discRob
`summary.discfm`	Summary Method for Discriminant Analysis Models
`summary.fit.models`	Summary Dispatch for fit.models Objects
`summary.gammaMLE`	Summary Method for Asymmetric Distribution Models
`summary.gammaRob`	Summary Method for Asymmetric Distribution Models
`summary.glmRob`	Summary Method for Generalized Linear Model Objects

summary.glmfm	Summary Method for Generalized Linear Models
summary.lmRob	Summary Method for class "lmRob"
summary.lmRobBI	Summary Method for class "lmRobBI"
summary.lmfm	Summary Method for Linear Models
summary.lognormMLE	Summary Method for Asymmetric Distribution Models
summary.lognormRob	Summary Method for Asymmetric Distribution Models
summary.pcompfm	Summary Method for Principal Components Models
summary.princompRob	Summary Method for Robust Principal Components Objects
summary.weibullMLE	Summary Method for Asymmetric Distribution Models
summary.weibullRob	Summary Method for Asymmetric Distribution Models
table.rq	Table of Quantile Regression Results
test.lmRob	Various Tests of Robust Regression Estimates
update.lmRob	Use update() on an lmRob Object
weibullMLE	Maximum Likelihood Parameter Estimates for Asymmetric Distributions
weibullMLE.control	Control for the MLE of a Weibull Distribution
weibullRob	Robust Asymmetric Distribution Parameter Estimates
weibullRob.control	Control for the Robust Weibull Parameter Estimator
weights.lmRob	Robust Weight Vector
weights.lmRobBI	Robust Weight Vector for Bounded Influence Estimates
www.weight	Optimal Weight Function
xyellipse	xyellipse

Linear Algebra

%*%	Matrix Multiplication Operator
%c%	Matrix Cross Product
%o%	Generalized Outer Products
.laenv	Tuning Parameters for Linear Algebra Computations
Matrix-product	Matrix Multiplication Operator
aperm	Array Permutations
aperm.default	Array Permutations
apply	Apply a Function to Sections of an Array
as.qr	QR Matrix Decomposition
backsolve	Backsolve Upper-Triangular Equations
chol	Choleski Decomposition of Symmetric Matrix
colMaxs	Row and Column Summaries - min, max, and range
colMeans	Row and Column Summaries
colMedians	Compute medians columnwise

`colMins`	Row and Column Summaries - min, max, and range
`colProds`	Columnwise Products
`colQuantiles`	Compute quantiles columnwise
`colRanges`	Row and Column Summaries - min, max, and range
`colStdevs`	Row and Column Summaries
`colSums`	Row and Column Summaries
`colVars`	Row and Column Summaries
`crossprod`	Matrix Cross Product
`det`	Determinant of a Matrix
`determinant`	Determinant of a Matrix
`diag`	Diagonal Matrices
`eigen`	Eigenvalues and Eigenvectors of a Matrix
`eigen.default`	Eigenvalues and Eigenvectors of a Matrix
`gchol`	Generalized Cholesky Decomposition
`ginverse`	Generalized Inverse of a Matrix
`groupAlls`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAlls.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAlls.default`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAnys`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.default`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupMaxs`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.data.frame`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.default`	Computes Group Max for a Vector or Columns of an Array
`groupMeans`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.data.frame`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.default`	Computes Group Means for a Vector or Columns of an Array
`groupMins`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.data.frame`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.default`	Computes Group Mins for a Vector or Columns of an Array

groupProds	Computes Group Products for a Vector or Columns of an Array
groupProds.data.frame	Computes Group Products for a Vector or Columns of an Array
groupProds.default	Computes Group Products for a Vector or Columns of an Array
groupRanges	Computes Group Ranges for a Vector or Columns of an Array
groupRanges.data.frame	Computes Group Ranges for a Vector or Columns of an Array
groupRanges.default	Computes Group Ranges for a Vector or Columns of an Array
groupStdevs	Computes group standard deviations for a vector or columns of an array.
groupSums	Computes Group Sums for a Vector or Columns of an Array
groupSums.data.frame	Computes Group Sums for a Vector or Columns of an Array
groupSums.default	Computes Group Sums for a Vector or Columns of an Array
groupVars	Computes Group Variances for a Vector or Columns of an Array
groupVars.data.frame	Computes Group Variances for a Vector or Columns of an Array
groupVars.default	Computes Group Variances for a Vector or Columns of an Array
is.qr	QR Matrix Decomposition
la.env	Set Tuning Parameters for Linear Algebra Computations
outer	Generalized Outer Products
prcomp	Principal Components Analysis
qr	QR Matrix Decomposition
qr.Q	Reconstruct the Q, R, or X Matrices from a QR Object
qr.R	Reconstruct the Q, R, or X Matrices from a QR Object
qr.X	Reconstruct the Q, R, or X Matrices from a QR Object
qr.coef	Use a QR Matrix Decomposition
qr.default	QR Matrix Decomposition
qr.fitted	Use a QR Matrix Decomposition
qr.qty	Use a QR Matrix Decomposition
qr.qy	Use a QR Matrix Decomposition
qr.resid	Use a QR Matrix Decomposition
rowMaxs	Row and Column Summaries - min, max, and range
rowMeans	Row and Column Summaries
rowMins	Row and Column Summaries - min, max, and range
rowRanges	Row and Column Summaries - min, max, and range

`rowStdevs`	Row and Column Summaries
`rowSums`	Row and Column Summaries
`rowVars`	Row and Column Summaries
`scale`	Scale Columns of a Matrix
`sd`	Row and Column Summaries
`solve`	Solve Linear Equations and Invert Matrices - Generic Function
`solve.bdsmatrix`	Solve Matrix Equations with Generalized Cholesky Decomposition
`solve.default`	Solve Linear Equations and Invert Matrices - Generic Function
`solve.gchol`	Solve Matrix Equations With Generalized Cholesky Decomposition
`subtractMeans`	Subtract group means from each entry for a vector or columns of an array.
`svd`	Singular Value Decomposition of a Matrix
`svd.default`	Singular Value Decomposition of a Matrix
`t`	Matrix Transpose
`t.default`	Matrix Transpose
`vecnorm`	p-norm of a Vector

Lists

`$`	Extract or Replace Parts of an Object - Generic Operators
`Subscript`	Extract or Replace Parts of an Object - Generic Operators
`Subscript.data.frame`	Subscript a Data Frame
`[`	Extract or Replace Parts of an Object - Generic Operators
`[<-`	Extract or Replace Parts of an Object - Generic Operators
`[<-.data.frame`	Subscript a Data Frame
`[.data.frame`	Subscript a Data Frame
`[[`	Extract or Replace Parts of an Object - Generic Operators
`[[<-.data.frame`	Subscript a Data Frame
`[[«-`	Extract or Replace Parts of an Object - Generic Operators
`[[.data.frame`	Subscript a Data Frame
`as.list`	List Objects
`c`	Combine Values into a Vector or List
`is.list`	List Objects
`lapply`	Apply a Function to Components of a List or Vector
`length`	Length of a Vector or List
`list`	List Objects
`names`	Names Attribute of an Object

`names<-`	Names Attribute of an Object
`print.list`	Print a List
`rev`	Reverse the Order of a Vector or List
`sapply`	Apply a Function to Components of a List or Vector
`split`	Split Data by Groups
`split.default`	Split Data by Groups
`unlist`	Simplify the Structure of a List

Loess Objects

`anova.loess`	Anova Method for Loess Objects
`coplot`	Conditioning Plot
`expand.grid`	Create Data Frame from Marginal Grid
`lo`	Specify a Loess Fit in a GAM Formula
`loess`	Fit a Local Regression Model
`loess.control`	Computational Options for Loess Fitting
`loess.dfit`	Local Regression Fitting (Direct)
`loess.dfitse`	Local Regression Fitting and Standard Errors (Direct)
`loess.ifit`	Local Regression Fitting (Interpolations by k-d Tree)
`loess.ise`	Local Regression Fitting Standard Errors
`loess.object`	Loess Model Object
`loess.raw`	Local Regression Fitting
`loess.smooth`	Smooth Loess Curve
`plot.loess`	Display of Fitted LOESS Models by Coplots
`plot.preplot.loess`	Display Local Regression Surface
`predict.loess`	Evaluation of Local Regression Surfaces
`preplot.loess`	Display of Fitted LOESS Models by Coplots
`print.loess`	Print Method for a LOESS Object or its Summary
`print.summary.loess`	Print Method for a LOESS Object or its Summary
`specs.loess`	Specifications of Local Regression Model
`summary.loess`	Summary Method for Local Regression Models

Logical Operators

`!`	Logical Operators
`!=`	Comparison Operators
`<`	Comparison Operators
`<=`	Comparison Operators
`==`	Comparison Operators
`Comparison`	Comparison Operators

`Logic`	Logical Operators
`all`	Logical Sum and Product
`all.equal`	Test Two Objects for Full Equality - Generic function
`all.equal.numeric`	Test Two Numeric Objects for Full Equality
`any`	Logical Sum and Product
`as.logical`	Logical Objects
`compare`	Signum Function and Comparison
`complete.cases`	Find Complete Cases of Observations
`else`	Conditional Expressions and Operators
`identical`	Test for Complete Equality
`if`	Conditional Expressions and Operators
`ifelse`	Conditional Data Selection
`igroupAlls`	Compute Summary Statistics by Group
`igroupAnys`	Compute Summary Statistics by Group
`igroupMaxs`	Compute Summary Statistics by Group
`igroupMeans`	Compute Summary Statistics by Group
`igroupMins`	Compute Summary Statistics by Group
`igroupProds`	Compute Summary Statistics by Group
`igroupRanges`	Compute Summary Statistics by Group
`igroupSums`	Compute Summary Statistics by Group
`isTRUE`	Test for Logical Object of Length One with Value True
`is.finite`	Check IEEE Arithmetic Values
`is.inf`	Check IEEE Arithmetic Values
`is.infinite`	Check IEEE Arithmetic Values
`is.logical`	Logical Objects
`is.na`	Test For Missing Values - Generic function
`is.nan`	Check IEEE Arithmetic Values
`is.number`	Check IEEE Arithmetic Values
`logical`	Logical Objects
`sign`	Signum Function and Comparison
`which`	Find TRUE values in logical vector
`which.inf`	Determine Which Values are Missing Values or IEEE Special Values
`which.max`	Index of the minimum or maximum value
`which.min`	Index of the minimum or maximum value
`which.na`	Determine Which Values are Missing Values or IEEE Special Values
`which.nan`	Determine Which Values are Missing Values or IEEE Special Values

`xor`	Logical Operators
`|`	Logical Operators
`||`	Conditional Expressions and Operators

Looping and Iteration

`For`	Manage Compute-Intensive Iteration
`Syntax`	The Structure of Spotfire S+ Expressions
`aggregate`	Compute Summary Statistics of Subsets of Data
`aggregate.data.frame`	Compute Column-by-Column Summaries of Groups of Observations
`aggregate.default`	Compute Summary Statistics of Subsets of Data
`apply`	Apply a Function to Sections of an Array
`by`	Split a Dataset by Factors and Apply a Function to the Parts
`by.data.frame`	Split a Dataset by Factors and Apply a Function to the Parts
`by.default`	Split a Dataset by Factors and Apply a Function to the Parts
`colMeans`	Row and Column Summaries
`colStdevs`	Row and Column Summaries
`colSums`	Row and Column Summaries
`colVars`	Row and Column Summaries
`componentsApply`	Apply a function to components of an object
`function`	The Structure of Spotfire S+ Expressions
`groupAlls`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAlls.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAlls.default`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAnys`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.default`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupMaxs`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.data.frame`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.default`	Computes Group Max for a Vector or Columns of an Array
`groupMeans`	Computes Group Means for a Vector or Columns of an Array

`groupMeans.data.frame`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.default`	Computes Group Means for a Vector or Columns of an Array
`groupMins`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.data.frame`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.default`	Computes Group Mins for a Vector or Columns of an Array
`groupProds`	Computes Group Products for a Vector or Columns of an Array
`groupProds.data.frame`	Computes Group Products for a Vector or Columns of an Array
`groupProds.default`	Computes Group Products for a Vector or Columns of an Array
`groupRanges`	Computes Group Ranges for a Vector or Columns of an Array
`groupRanges.data.frame`	Computes Group Ranges for a Vector or Columns of an Array
`groupRanges.default`	Computes Group Ranges for a Vector or Columns of an Array
`groupStdevs`	Computes group standard deviations for a vector or columns of an array.
`groupSums`	Computes Group Sums for a Vector or Columns of an Array
`groupSums.data.frame`	Computes Group Sums for a Vector or Columns of an Array
`groupSums.default`	Computes Group Sums for a Vector or Columns of an Array
`groupVars`	Computes Group Variances for a Vector or Columns of an Array
`groupVars.data.frame`	Computes Group Variances for a Vector or Columns of an Array
`groupVars.default`	Computes Group Variances for a Vector or Columns of an Array
`lapply`	Apply a Function to Components of a List or Vector
`recursiveApply`	Apply a function to an object and its components, recursively.
`return`	The Structure of Spotfire S+ Expressions
`rowMeans`	Row and Column Summaries
`rowStdevs`	Row and Column Summaries
`rowSums`	Row and Column Summaries
`rowVars`	Row and Column Summaries
`rowsum`	Row Sums of a Matrix, Based on a Grouping Variable.
`sapply`	Apply a Function to Components of a List or Vector
`sd`	Row and Column Summaries
`subtractMeans`	Subtract group means from each entry for a vector or columns of an array.

`sweep`	Sweep Out Array Summaries
`tapply`	Apply a Function to a Ragged Array
`{`	The Structure of Spotfire S+ Expressions

Mathematical Operations

`!=`	Comparison Operators
`%%`	Arithmetic Operators
`%/%`	Arithmetic Operators
`%w/o%`	Find the Unique Values of a Set
`%in%`	Tell if items are in a set.
`+`	Arithmetic Operators
`.Uminus`	Arithmetic Operators
`<`	Comparison Operators
`<=`	Comparison Operators
`==`	Comparison Operators
`Arg`	Basic Complex Number Manipulation
`Arithmetic`	Arithmetic Operators
`Comparison`	Comparison Operators
`Complex`	Basic Complex Number Manipulation
`Conj`	Basic Complex Number Manipulation
`Im`	Basic Complex Number Manipulation
`Math`	Mathematical Function Groups and Group Generics
`Math.data.frame`	Math Group Method for Data Frame Objects
`Math2`	Mathematical Function Groups and Group Generics
`Mod`	Basic Complex Number Manipulation
`Re`	Basic Complex Number Manipulation
`Summary.data.frame`	Summary Group Method for Data Frame Objects
`^`	Arithmetic Operators
`abs`	Absolute Value
`acos`	Inverse Trigonometric Functions
`acosh`	Inverse Hyperbolic Trigonometric Functions
`approx`	Linear Interpolation of Points
`asin`	Inverse Trigonometric Functions
`asinh`	Inverse Hyperbolic Trigonometric Functions
`atan`	Inverse Trigonometric Functions
`atanh`	Inverse Hyperbolic Trigonometric Functions
`bits.per.integer`	Return the Number of Bits in a Spotfire S+ Integer
`ceiling`	Integer Values

choose	Factorial, Combinations, Permutations
choose.multinomial	Factorial, Combinations, Permutations
chull	Convex Hull of a Planar Set of Points
colMaxs	Row and Column Summaries - min, max, and range
colMeans	Row and Column Summaries
colMedians	Compute medians columnwise
colMins	Row and Column Summaries - min, max, and range
colProds	Columnwise Products
colQuantiles	Compute quantiles columnwise
colRanges	Row and Column Summaries - min, max, and range
colStdevs	Row and Column Summaries
colSums	Row and Column Summaries
colVars	Row and Column Summaries
combinations	Returns All Combinations or Permutations of Size K Elements out of N
combn	Generates Combinations of M Elements out of X
cor	Variance, Covariance, and Correlation
cos	Trigonometric Functions
cosh	Hyperbolic Trigonometric Functions
cov2cor	Variance, Covariance, and Correlation
cummax	Cumulative Maxima and Minima
cummin	Cumulative Maxima and Minima
cumprod	Cumulative Sums and Products
cumsum	Cumulative Sums and Products
deriv	Symbolic Partial Derivatives of Expressions
deriv.default	Symbolic Partial Derivatives of Expressions
diff	Create an Object of Differences
digamma	Evaluate the Digamma Function
exp	Exponential Functions
expm1	Exponential Functions
factorial	Factorial, Combinations, Permutations
floor	Integer Values
gamma	Gamma Function (and its Natural Logarithm)
groupAlls	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
groupAlls.data.frame	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
groupAlls.default	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array

`groupAnys`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.default`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupMaxs`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.data.frame`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.default`	Computes Group Max for a Vector or Columns of an Array
`groupMeans`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.data.frame`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.default`	Computes Group Means for a Vector or Columns of an Array
`groupMins`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.data.frame`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.default`	Computes Group Mins for a Vector or Columns of an Array
`groupProds`	Computes Group Products for a Vector or Columns of an Array
`groupProds.data.frame`	Computes Group Products for a Vector or Columns of an Array
`groupProds.default`	Computes Group Products for a Vector or Columns of an Array
`groupRanges`	Computes Group Ranges for a Vector or Columns of an Array
`groupRanges.data.frame`	Computes Group Ranges for a Vector or Columns of an Array
`groupRanges.default`	Computes Group Ranges for a Vector or Columns of an Array
`groupStdevs`	Computes group standard deviations for a vector or columns of an array.
`groupSums`	Computes Group Sums for a Vector or Columns of an Array
`groupSums.data.frame`	Computes Group Sums for a Vector or Columns of an Array
`groupSums.default`	Computes Group Sums for a Vector or Columns of an Array
`groupVars`	Computes Group Variances for a Vector or Columns of an Array
`groupVars.data.frame`	Computes Group Variances for a Vector or Columns of an Array
`groupVars.default`	Computes Group Variances for a Vector or Columns of an Array

igroupAlls	Compute Summary Statistics by Group
igroupAnys	Compute Summary Statistics by Group
igroupMaxs	Compute Summary Statistics by Group
igroupMeans	Compute Summary Statistics by Group
igroupMins	Compute Summary Statistics by Group
igroupProds	Compute Summary Statistics by Group
igroupRanges	Compute Summary Statistics by Group
igroupSums	Compute Summary Statistics by Group
intersect	Find the Intersection of Multiple Sets
is.element	Tell if items are in a set.
is.finite	Check IEEE Arithmetic Values
is.inf	Check IEEE Arithmetic Values
is.infinite	Check IEEE Arithmetic Values
is.nan	Check IEEE Arithmetic Values
is.number	Check IEEE Arithmetic Values
jitter	Separate Data Points by Jittering
kurtosis	Compute Skewness and Kurtosis
lgamma	Gamma Function (and its Natural Logarithm)
location.lms	Univariate Location and Scale Estimation.
log	Exponential Functions
log2	Exponential Functions
log10	Exponential Functions
log1p	Exponential Functions
logb	Exponential Functions
max	Extremes
mean	Mean Value (Arithmetic Average)
median	Median
min	Extremes
mstree	Minimal Spanning Tree and Multivariate Planing
peaks	Find Local Maxima
permutations	Returns All Combinations or Permutations of Size K Elements out of N
pmax	Parallel Maximum or Minimum
pmin	Parallel Maximum or Minimum
polyroot	Find the Roots of a Polynomial
prod	Sums and Products
quantile	Empirical Quantiles
range	Range of Data

`rank`	Ranks of Data
`round`	Rounding Functions
`rowMaxs`	Row and Column Summaries - min, max, and range
`rowMeans`	Row and Column Summaries
`rowMins`	Row and Column Summaries - min, max, and range
`rowRanges`	Row and Column Summaries - min, max, and range
`rowStdevs`	Row and Column Summaries
`rowSums`	Row and Column Summaries
`rowVars`	Row and Column Summaries
`sd`	Row and Column Summaries
`setdiff`	Find the Unique Values of a Set
`signif`	Rounding Functions
`sin`	Trigonometric Functions
`sinh`	Hyperbolic Trigonometric Functions
`skewness`	Compute Skewness and Kurtosis
`spline`	Cubic Spline Approximation
`sqrt`	Exponential Functions
`std.tolerance`	Tolerances for Numeric Comparisons
`stdev`	Standard Deviation
`subtractMeans`	Subtract group means from each entry for a vector or columns of an array.
`sum`	Sums and Products
`tan`	Trigonometric Functions
`tanh`	Hyperbolic Trigonometric Functions
`trigamma`	Trigamma Function
`trunc`	Integer Values
`union`	Find the Union of Multiple Sets
`var`	Variance, Covariance, and Correlation
`which.inf`	Determine Which Values are Missing Values or IEEE Special Values
`which.max`	Index of the minimum or maximum value
`which.min`	Index of the minimum or maximum value
`which.na`	Determine Which Values are Missing Values or IEEE Special Values
`which.nan`	Determine Which Values are Missing Values or IEEE Special Values
`zapsmall`	Coerce Small Numbers to Zero for Printing

Matrices and Arrays

`$`	Extract or Replace Parts of an Object - Generic Operators
`%*%`	Matrix Multiplication Operator
`%c%`	Matrix Cross Product
`Matrix-product`	Matrix Multiplication Operator
`Subscript`	Extract or Replace Parts of an Object - Generic Operators
`[`	Extract or Replace Parts of an Object - Generic Operators
`[<-`	Extract or Replace Parts of an Object - Generic Operators
`[[`	Extract or Replace Parts of an Object - Generic Operators
`[[«-`	Extract or Replace Parts of an Object - Generic Operators
`aggregate`	Compute Summary Statistics of Subsets of Data
`aggregate.data.frame`	Compute Column-by-Column Summaries of Groups of Observations
`aggregate.default`	Compute Summary Statistics of Subsets of Data
`aperm`	Array Permutations
`aperm.default`	Array Permutations
`apply`	Apply a Function to Sections of an Array
`array`	Multi-Way Arrays
`as.array`	Multi-Way Arrays
`as.matrix`	Matrix Objects
`backsolve`	Backsolve Upper-Triangular Equations
`bdsBlock`	Sparse Block Diagonal Matrices
`bdsI`	Sparse Identity Matrices
`bdsmatrix`	Create a Sparse Symmetric Block Diagonal Matrix
`bdsmatrix.ibd`	Create a bdsmatrix From a List
`by`	Split a Dataset by Factors and Apply a Function to the Parts
`by.data.frame`	Split a Dataset by Factors and Apply a Function to the Parts
`by.default`	Split a Dataset by Factors and Apply a Function to the Parts
`cbind`	Build Matrix from Columns or Rows
`chol`	Choleski Decomposition of Symmetric Matrix
`col`	Column and Row Identification in a Matrix
`colMeans`	Row and Column Summaries
`colStdevs`	Row and Column Summaries
`colSums`	Row and Column Summaries
`colVars`	Row and Column Summaries
`crossprod`	Matrix Cross Product
`diag`	Diagonal Matrices
`dim`	Dim Attribute of an Object
`dim<-`	Dim Attribute of an Object

`dimnames`	Dimnames Attribute of an Object
`drop`	Drop Length One Dimensions of an Array
`eigen`	Eigenvalues and Eigenvectors of a Matrix
`eigen.default`	Eigenvalues and Eigenvectors of a Matrix
`gchol`	Generalized Cholesky Decomposition
`ginverse`	Generalized Inverse of a Matrix
`groupAlls`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAlls.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAlls.default`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAnys`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.default`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupMaxs`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.data.frame`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.default`	Computes Group Max for a Vector or Columns of an Array
`groupMeans`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.data.frame`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.default`	Computes Group Means for a Vector or Columns of an Array
`groupMins`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.data.frame`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.default`	Computes Group Mins for a Vector or Columns of an Array
`groupProds`	Computes Group Products for a Vector or Columns of an Array
`groupProds.data.frame`	Computes Group Products for a Vector or Columns of an Array
`groupProds.default`	Computes Group Products for a Vector or Columns of an Array
`groupRanges`	Computes Group Ranges for a Vector or Columns of an Array
`groupRanges.data.frame`	Computes Group Ranges for a Vector or Columns of an Array

`groupRanges.default`	Computes Group Ranges for a Vector or Columns of an Array
`groupStdevs`	Computes group standard deviations for a vector or columns of an array.
`groupSums`	Computes Group Sums for a Vector or Columns of an Array
`groupSums.data.frame`	Computes Group Sums for a Vector or Columns of an Array
`groupSums.default`	Computes Group Sums for a Vector or Columns of an Array
`groupVars`	Computes Group Variances for a Vector or Columns of an Array
`groupVars.data.frame`	Computes Group Variances for a Vector or Columns of an Array
`groupVars.default`	Computes Group Variances for a Vector or Columns of an Array
`is.array`	Multi-Way Arrays
`is.matrix`	Matrix Objects
`kronecker`	Kronecker Products
`lower.tri`	Logical Matrix Giving the Lower Triangle
`matlines`	Plot Columns of Matrices
`matplot`	Plot Columns of Matrices
`matpoints`	Plot Columns of Matrices
`matrix`	Matrix Objects
`merge`	Merge Two Datasets and Match Columns
`merge.data.frame`	Merge Two Datasets and Match Columns
`merge.default`	Merge Two Datasets and Match Columns
`ncol`	Extents of a Matrix
`nrow`	Extents of a Matrix
`print.array`	Print a Multi-Dimensional Array
`rbind`	Build Matrix from Columns or Rows
`row`	Column and Row Identification in a Matrix
`rowMeans`	Row and Column Summaries
`rowStdevs`	Row and Column Summaries
`rowSums`	Row and Column Summaries
`rowVars`	Row and Column Summaries
`scale`	Scale Columns of a Matrix
`sd`	Row and Column Summaries
`slice.index`	Slice Identification in an Array
`solve`	Solve Linear Equations and Invert Matrices - Generic Function
`solve.default`	Solve Linear Equations and Invert Matrices - Generic Function

`solve.gchol`	Solve Matrix Equations With Generalized Cholesky Decomposition
`subtractMeans`	Subtract group means from each entry for a vector or columns of an array.
`svd`	Singular Value Decomposition of a Matrix
`svd.default`	Singular Value Decomposition of a Matrix
`sweep`	Sweep Out Array Summaries
`t`	Matrix Transpose
`t.default`	Matrix Transpose
`tapply`	Apply a Function to a Ragged Array
`tsmatrix`	Create Matrix with Time Series as Columns
`upper.tri`	Logical Matrix Giving the Lower or Upper Triangle

Methods and Generic Functions

`!`	Logical Operators
`$`	Extract or Replace Parts of an Object - Generic Operators
`Arith`	Arithmetic operations with two operands.
`Compare`	Equality and inequality comparisons of two operands.
`Groups`	Function Groups and Group Generics
`Logic`	Logical Operators
`Math`	Mathematical Function Groups and Group Generics
`Math2`	Mathematical Function Groups and Group Generics
`Methods`	Object-Oriented Methods
`NextMethod`	Methods Invoked from Spotfire S+ Functions
`Ops`	Operators for Arithmetic, Comparison, and Logic
`Subscript`	Extract or Replace Parts of an Object - Generic Operators
`Subscript.data.frame`	Subscript a Data Frame
`Summary`	Summary is a group generic function.
`UseMethod`	Methods Invoked from Spotfire S+ Functions
`[`	Extract or Replace Parts of an Object - Generic Operators
`[<-`	Extract or Replace Parts of an Object - Generic Operators
`[<-.data.frame`	Subscript a Data Frame
`[.data.frame`	Subscript a Data Frame
`[[`	Extract or Replace Parts of an Object - Generic Operators
`[[<-.data.frame`	Subscript a Data Frame
`[[«-`	Extract or Replace Parts of an Object - Generic Operators
`[[.data.frame`	Subscript a Data Frame
`aov.object`	Analysis of Variance Objects
`aovlist.object`	Analysis of Variance Objects

`arima.object`	ARIMA Model Object
`as.formula`	Define or Extract a Model Formula - Generic Function
`check.factor`	Check for a Legitimate Factor Object
`cov.mcd`	Minimum Covariance Determinant Estimation - Generic Function
`cov.mve`	Minimum Volume Ellipsoid Covariance Estimation
`coxph.object`	Proportional Hazards Regression Object
`cusum.object`	Cusum Quality Control Chart Object
`data.frame.object`	Data Frame Objects
`design.object`	Design Objects
`deviance`	Deviance of a Fitted Model - Generic Function
`existsMethod`	Search for a Method for a Generic Function
`factanal.object`	Factor Analysis Objects
`family.object`	A Family of GLM Models
`findMethod`	Find a Method for a Generic Function
`formula`	Define or Extract a Model Formula - Generic Function
`formula.default`	Define or Extract a Model Formula - Generic Function
`formula.object`	Model Formula Objects
`gam.object`	Generalized Additive Model Object
`getGroupMembers`	Find All the Functions Sharing a Particular Group
`getMethod`	Get a Method for a Generic Function
`glm.object`	Generalized Linear Model Object
`groupVec`	groupVec Constructor
`groupVecClasses`	groupVec Class Data Access
`groupVecClasses<-`	groupVec Class Data Access
`groupVecColumn`	groupVec Class - Data Access
`groupVecColumn<-`	groupVec Class - Data Access
`groupVecData`	groupVec Class Data Access
`groupVecData<-`	groupVec Class Data Access
`groupVecExtValid`	groupVec Extended Class Validation
`groupVecNames`	groupVec Class Data Access
`groupVecNames<-`	groupVec Class Data Access
`groupVecNonVec`	groupVec Extended Class Validation
`groupVecValid`	groupVec Object Validation
`hasMethod`	Search for a Method for a Generic Function
`htest.object`	Hypotheses Testing Objects
`igroupAlls`	Compute Summary Statistics by Group
`igroupAnys`	Compute Summary Statistics by Group

`igroupMaxs`	Compute Summary Statistics by Group
`igroupMeans`	Compute Summary Statistics by Group
`igroupMins`	Compute Summary Statistics by Group
`igroupProds`	Compute Summary Statistics by Group
`igroupRanges`	Compute Summary Statistics by Group
`igroupSums`	Compute Summary Statistics by Group
`isGeneric`	Determine Whether a Function is a Generic
`lm.object`	Linear Least Squares Model Object
`lmRobMM.object`	Robust Linear Model Objects
`lms.object`	Least Median of Squares Object
`lmsreg`	Least Median of Squares Robust Regression
`loadings.object`	Loadings Matrix Objects
`loess.object`	Loess Model Object
`lts.object`	Least Trimmed Squares Object
`ltsreg`	Least Trimmed Squares Robust Regression
`maov.object`	Analysis of Variance Objects
`mcd.object`	Minimum Covariance Determinant Object
`methods`	List Methods of Old-Style (SV3) Generic Functions
`mlm`	Linear Least Squares Model Object
`mlm.object`	Linear Least Squares Model Object
`mve.object`	Minimum Volume Ellipsoid Object
`pframe`	Construct a Parameterized Data Frame Object
`pframe.object`	Parametrized Data Frame Objects
`predict.arima`	Use predict() on a arima Class Object
`princomp.object`	Principal Component Objects
`qcc.object`	Quality Control Chart Object
`selectMethod`	Get a Method for a Generic Function
`setMethod`	Define a Method for a Generic Function
`shewhart.object`	Shewhart Quality Control Chart Object
`specs`	Specifications of a Model - Generic Function
`step`	Build a Model in a Stepwise Fashion - Generic Function
`summary`	Summarize an Object - Generic Function
`terms.object`	Class of Objects for Terms in a Model
`traceMethod`	Trace a Method
`tree.object`	Regression or Classification Tree Object
`tree.sequence.object`	Regression or Classification Tree Object
`xor`	Logical Operators
`|`	Logical Operators

~	Model Formula Objects
Miscellaneous	
bd.data.viewer	Show Data Viewer
bd.options	Big Data Processing Options
bd.pack.object	Packing Data
bd.unpack.object	Packing Data
bdPackedObject	Packing Data
date	Today's Date and Time
odometer	Multi Radix Counter
Missing Values	
anyMissing	Test For Missing Values - Generic function
is.missing	Check of Length 0 or Missing
numberMissing	Count Number of Missing Values - Generic function
Mixed Effects Models	
ACF.lme	Autocorrelation Function for lme Residuals
AIC	Akaike Information Criterion
AIC.logLik	AIC of a logLik Object
BIC	Bayesian Information Criterion
BIC.logLik	BIC of a logLik Object
Dim	Extract Dimensions from an Object
Dim.corSpatial	Dimensions of a corSpatial Object
Dim.corStruct	Dimensions of a corStruct Object
Dim.pdMat	Dimensions of a pdMat Object
NLSstClosestX	Inverse Interpolation
NLSstLfAsymptote	Horizontal Asymptote on the Left Side
NLSstRtAsymptote	Horizontal Asymptote on the Right Side
Names	Names Associated with an Object
Names.formula	Extract Names from a formula
Names.pdBlocked	Names of a pdBlocked Object
Names.pdMat	Names of a pdMat Object
Names.reStruct	Names of an reStruct Object
SSasymp	Asymptotic regression model
SSasympOff	Asymptotic Regression Model with an Offset
SSasympOrig	Asymptotic Regression Model through the Origin
SSbiexp	Biexponential model

SSfol	First-order Compartment Model
SSfpl	Four-parameter Logistic Model
SSlogis	Logistic model
SSmicmen	Michaelis-Menten model
Variogram	Calculate Semi-Variogram
Variogram.corExp	Calculate Semi-Variogram for a corExp Object
Variogram.corGaus	Calculate Semi-Variogram for a corGaus Object
Variogram.corLin	Calculate Semi-Variogram for a corLin Object
Variogram.corRatio	Calculate Semi-Variogram for a corRatio Object
Variogram.corSpatial	Calculate Semi-Variogram for a corSpatial Object
Variogram.corSpher	Calculate Semi-Variogram for a corSpher Object
Variogram.default	Calculate Semi-Variogram
Variogram.gls	Calculate Semi-Variogram for Residuals from a gls Object
Variogram.lme	Calculate Semi-Variogram for Residuals from an lme Object
[.pdMat	Subscript a pdMat Object
allCoef	Extract Coefficients from a Set of Objects
anova.gls	Compare Likelihoods of Fitted Objects
anova.lme	Compare Likelihoods of Fitted Objects
as.matrix.corStruct	Matrix of a corStruct Object
as.matrix.pdMat	Matrix of a pdMat Object
as.matrix.reStruct	Matrices of an reStruct Object
asNatural	Convert to Natural Parameterization
asNatural.corBand	Convert corBand Object to Natural Parameterization
asNatural.corStruct	Convert corStruct Object to Natural Parameterization
asNatural.corSymm	Convert corSymm Object to Natural Parameterization
asNatural.pdBand	Convert pdBand Object to Natural Parameterization
asNatural.pdMat	Convert pdMat Object to Natural Parameterization
asNatural.pdSymm	Convert pdSymm Object to Natural Parameterization
asNatural.varFunc	Convert varFunc Object to Natural Parameterization
asOneFormula	Combine Formulas of a Set of Objects
asOneSidedFormula	Convert to One-Sided Formula
asTable	Convert groupedData to a matrix
augPred	Augmented Predictions
balancedGrouped	Create a groupedData object from a matrix
coef.corStruct	Coefficients of a corStruct Object
coef.gls	Extract gls Coefficients
coef.gnls	Extract gnls Coefficients
coef.lmList	Extract lmList Coefficients

`coef.lme`	Extract lme Coefficients
`coef.modelStruct`	Extract modelStruct Object Coefficients
`coef.pdCompSymm`	pdCompSymm Object Coefficients
`coef.pdDiag`	pdDiag Object Coefficients
`coef.pdIdent`	pdIdent Object Coefficients
`coef.pdMat`	pdMat Object Coefficients
`coef.reStruct`	reStruct Object Coefficients
`coef.varFunc`	varFunc Object Coefficients
`coef<-`	Assign Values to Coefficients
`collapse`	Collapse According to Groups
`collapse.groupedData`	Collapse a groupedData Object
`compareFits`	Compare Fitted Objects
`comparePred`	Compare Predictions
`corAR1`	AR(1) Correlation Structure
`corARMA`	ARMA(p,q) Correlation Structure
`corBand`	Banded Correlation Structure
`corBandNat`	Banded Correlation in Natural Parameterization
`corCAR1`	Continuous AR(1) Correlation Structure
`corClasses`	Correlation Structure Classes
`corCompSymm`	Compound Symmetry Correlation Structure
`corExp`	Exponential Correlation Structure
`corFactor`	Factor of a Correlation Matrix
`corFactor.corStruct`	Factor of a corStruct Object Matrix
`corGaus`	Gaussian Correlation Structure
`corLin`	Linear Correlation Structure
`corMatrix`	Extract Correlation Matrix
`corMatrix.corStruct`	Matrix of a corStruct Object
`corMatrix.pdMat`	Extract Correlation Matrix from a pdMat Object
`corMatrix.reStruct`	Extract Correlation Matrix from Components of an reStruct Object
`corRatio`	Rational Quadratic Correlation Structure
`corSpatial`	Spatial Correlation Structure
`corSpher`	Spherical Correlation Structure
`corStrat`	Stratified Correlation Structure
`corSymm`	General Correlation Structure
`corSymmNat`	General Correlation in Natural Parameterization
`covariate<-`	Assign Covariate Values
`covariate<-.varFunc`	Assign varFunc Covariate

`fitted.gls`	Extract gls Fitted Values
`fitted.glsStruct`	Calculate glsStruct Fitted Values
`fitted.gnls`	Extract gnls Fitted Values
`fitted.gnlsStruct`	Calculate gnlsStruct Fitted Values
`fitted.lmList`	Extract lmList Fitted Values
`fitted.lme`	Extract lme Fitted Values
`fitted.lmeStruct`	Calculate lmeStruct Fitted Values
`fitted.nlmeStruct`	Calculate nlmeStruct Fitted Values
`fixed.effects`	Extract Fixed Effects
`fixed.effects.lmList`	Extract lmList Fixed Effects
`fixed.effects.lme`	Extract lme Fixed Effects
`fixef`	Extract Fixed Effects
`fixef.lmList`	Extract lmList Fixed Effects
`fixef.lme`	Extract lme Fixed Effects
`formula.corStruct`	Extract corStruct Object Formula
`formula.gls`	Extract gls Object Formula
`formula.gnls`	Extract gnls Object Formula
`formula.groupedData`	Extract groupedData Formula
`formula.lmList`	Extract lmList Object Formula
`formula.lme`	Extract lme Object Formula
`formula.modelStruct`	Extract modelStruct Object Formula
`formula.nlme`	Extract nlme Object Formula
`formula.nls`	Extract Model Formula from nls Object
`formula.nlsList`	Extract nlsList Object Formula
`formula.pdBlocked`	Extract pdBlocked Formula
`formula.pdMat`	Extract pdMat Formula
`formula.reStruct`	Extract reStruct Object Formula
`formula.varFunc`	Extract varFunc Formula
`gapply`	Apply a Function by Groups
`getCovariate`	Extract Covariate from an Object
`getCovariate.corStruct`	Extract corStruct Object Covariate
`getCovariate.data.frame`	Extract Data Frame Covariate
`getCovariate.varFunc`	Extract varFunc Covariate
`getCovariateFormula`	Extract Covariates Formula
`getData`	Extract Data from an Object
`getData.gls`	Extract gls Object Data
`getData.lmList`	Extract lmList Object Data
`getData.lme`	Extract lme Object Data

`getGroups`	Extract Grouping Factors from an Object
`getGroups.corStruct`	Extract corStruct Groups
`getGroups.data.frame`	Extract Groups from a Data Frame
`getGroups.gls`	Extract gls Object Groups
`getGroups.lmList`	Extract lmList Object Groups
`getGroups.lme`	Extract lme Object Groups
`getGroups.varFunc`	Extract varFunc Groups
`getGroupsFormula`	Extract Grouping Formula
`getGroupsFormula.gls`	Extract gls Object Grouping Formula
`getGroupsFormula.lmList`	Extract lmList Object Grouping Formula
`getGroupsFormula.lme`	Extract lme Object Grouping Formula
`getGroupsFormula.reStruct`	Extract reStruct Grouping Formula
`getInitial`	Get Initial Parameter Estimates
`getResponse`	Extract Response Variable from an Object
`getResponse.data.frame`	Extract Response from a Data Frame
`getResponse.gls`	Extract gls Object Response
`getResponse.lmList`	Extract lmList Object Response
`getResponse.lme`	Extract lme Object Response
`getResponseFormula`	Extract Formula Specifying Response Variable
`getStrata`	Extract Stratification Variable
`getStrata.data.frame`	Extract Strata from a Data Frame
`getStrataFormula`	Extract Stratification Formula
`gls`	Fit Linear Model Using Generalized Least Squares
`glsControl`	Control Values for gls Fit
`glsObject`	Fitted gls Object
`glsStruct`	Generalized Least Squares Structure
`gnls`	Fit Nonlinear Model Using Generalized Least Squares
`gnlsControl`	Control Values for gnls Fit
`gnlsObject`	Fitted gnls Object
`gnlsStruct`	Generalized Nonlinear Least Squares Structure
`groupedData`	Construct a groupedData Object
`gsummary`	Summarize by Groups
`initialize`	Initialize Object
`initialize.corStruct`	Initialize corStruct Object
`initialize.glsStruct`	Initialize a glsStruct Object
`initialize.lmeStruct`	Initialize an lmeStruct Object
`initialize.reStruct`	Initialize reStruct Object
`initialize.varFunc`	Initialize varFunc Object

`intervals`	Confidence Intervals on Coefficients
`intervals.gls`	Confidence Intervals on gls Parameters
`intervals.lmList`	Confidence Intervals on lmList Coefficients
`intervals.lme`	Confidence Intervals on lme Parameters
`isBalanced`	Check a Design for Balance
`isInitialized`	Check if Object is Initialized
`isInitialized.reStruct`	Check if an reStruct Object is Initialized
`isInitialized<-`	Set Initialization Status
`lmList`	List of lm Objects with a Common Model
`lmList.groupedData`	lmList Fit from a groupedData Object
`lme`	Linear Mixed-Effects Models
`lme.groupedData`	LME fit from groupedData Object
`lme.lmList`	LME fit from lmList Object
`lmeControl`	Control Values for lme Fit
`lmeObject`	Fitted lme Object
`lmeScale`	Scale for lme Optimization
`lmeStruct`	Linear Mixed-Effects Structure
`lmekin`	Mixed Effects Model Using a Kinship Matrix.
`logDet`	Extract the Logarithm of the Determinant
`logDet.corStruct`	Extract corStruct Log-Determinant
`logDet.pdMat`	Extract Log-Determinant from a pdMat Object
`logDet.reStruct`	Extract reStruct Log-Determinants
`logLik`	Extract Log-Likelihood
`logLik.corStruct`	Extract corStruct Log-Likelihood
`logLik.gls`	Log-Likelihood of a gls Object
`logLik.glsStruct`	Log-Likelihood of a glsStruct Object
`logLik.gnls`	Log-Likelihood of a gnls Object
`logLik.gnlsStruct`	Log-Likelihood of a gnlsStruct Object
`logLik.lm`	Extract Log-Likelihood from an lm Object
`logLik.lmList`	Log-Likelihood of an lmList Object
`logLik.lme`	Log-Likelihood of an lme Object
`logLik.lmeStruct`	Log-Likelihood of an lmeStruct Object
`logLik.reStruct`	Calculate reStruct Log-Likelihood
`logLik.varFunc`	Extract varFunc logLik
`matrix<-`	Assign Matrix Values
`matrix<-.pdKron`	Assign Matrix to a pdKron Object
`matrix<-.pdMat`	Assign Matrix to a pdMat Object
`matrix<-.reStruct`	Assign reStruct Matrices

`model.matrix.reStruct`	reStruct Model Matrix
`needUpdate`	Check if Update is Needed
`needUpdate.modelStruct`	Check if a modelStruct Object Needs Updating
`nlme`	Nonlinear Mixed-Effects Models
`nlme.nlsList`	NLME fit from nlsList Object
`nlmeControl`	Control Values for nlme Fit
`nlmeObject`	Fitted nlme Object
`nlmeStruct`	Nonlinear Mixed-Effects Structure
`nlsList`	List of nls Objects with a Common Model
`nlsList.selfStart`	nlsList Fit from a selfStart Function
`pairs.compareFits`	Pairs Plot of compareFits Object
`pairs.lmList`	Pairs Plot of an lmList Object
`pairs.lme`	Pairs Plot of an lme Object
`pdBand`	Banded Positive-Definite Matrix
`pdBandNat`	Banded Positive-Definite Matrix in Natural Parameterization
`pdBlocked`	Positive-Definite Block Diagonal Matrix
`pdClasses`	Positive-Definite Matrix Classes
`pdCompSymm`	Positive-Definite Matrix with Compound Symmetry Structure
`pdConstruct`	Construct pdMat Objects
`pdConstruct.pdBlocked`	Construct pdBlocked Objects
`pdDiag`	Diagonal Positive-Definite Matrix
`pdFactor`	Square-Root Factor of a Positive-Definite Matrix
`pdFactor.reStruct`	Extract Square-Root Factor from Components of an reStruct Object
`pdIdent`	Multiple of the Identity Positive-Definite Matrix
`pdKron`	Kronecker-Product Positive-Definite Matrix
`pdMat`	Positive-Definite Matrix
`pdMatrix`	Extract Matrix or Square-Root Factor from a pdMat Object
`pdMatrix.reStruct`	Extract Matrix or Square-Root Factor from an reStruct Object
`pdNatural`	General Positive-Definite Matrix in Natural Parametrization
`pdStrat`	Stratified Positive-Definite Matrix
`pdSymm`	General Positive-Definite Matrix
`pdSymmNat`	General Positive-Definite Matrix in Natural Parameterization
`plot.ACF`	Plot an ACF Object
`plot.Variogram`	Plot a Variogram Object
`plot.augPred`	Plot an augPred Object

`plot.compareFits`	Plot a compareFits Object
`plot.gls`	Plot a gls Object
`plot.intervals.lmList`	Plot lmList Confidence Intervals
`plot.lmList`	Plot an lmList Object
`plot.lme`	Plot an lme Object
`plot.nffGroupedData`	Plot an nffGroupedData Object
`plot.nfnGroupedData`	Plot an nfnGroupedData Object
`plot.nmGroupedData`	Plot an nmGroupedData Object
`plot.ranef.lmList`	Plot a ranef.lmList Object
`plot.ranef.lme`	Plot a ranef.lme Object
`pooledSD`	Extract Pooled Standard Deviation
`predict.gls`	Predictions from a gls Object
`predict.gnls`	Predictions from a gnls Object
`predict.lmList`	Predictions from an lmList Object
`predict.lme`	Predictions from an lme Object
`predict.nlme`	Predictions from an nlme Object
`print.anova.lme`	Print an anova.lme Object
`print.corStruct`	Print a corStruct Object
`print.gls`	Print a gls Object
`print.groupedData`	Print a groupedData Object
`print.intervals.gls`	Print an intervals.gls Object
`print.intervals.lme`	Print an intervals.lme Object
`print.lmList`	Print an lmList Object
`print.lme`	Print an lme Object
`print.modelStruct`	Print a modelStruct Object
`print.pdMat`	Print a pdMat Object
`print.reStruct`	Print an reStruct Object
`print.summary.corStruct`	Print a summary.corStruct Object
`print.summary.gls`	Print a summary.gls Object
`print.summary.lmList`	Print a summary.lmList Object
`print.summary.lme`	Print a summary.lme Object
`print.summary.modelStruct`	Print a summary.modelStruct Object
`print.summary.pdMat`	Print a summary.pdMat Object
`print.summary.varFunc`	Print a summary.varFunc Object
`print.varFunc`	Print a varFunc Object
`pruneLevels`	Prune Factor Levels
`qqnorm.gls`	Normal Plot of Residuals from a gls Object

`qqnorm.lme`	Normal Plot of Residuals or Random Effects from an lme Object
`random.effects`	Extract Random Effects
`random.effects.lmList`	Extract lmList Random Effects
`random.effects.lme`	Extract lme Random Effects
`ranef`	Extract Random Effects
`ranef.lmList`	Extract lmList Random Effects
`ranef.lme`	Extract lme Random Effects
`reStruct`	Random Effects Structure
`recalc`	Recalculate Condensed Linear Model Object
`recalc.corStruct`	Recalculate for corStruct Object
`recalc.modelStruct`	Recalculate for a modelStruct Object
`recalc.reStruct`	Recalculate for an reStruct Object
`recalc.varFunc`	Recalculate for varFunc Object
`residuals.gls`	Extract gls Residuals
`residuals.glsStruct`	Calculate glsStruct Residuals
`residuals.gnls`	Extract gnls Residuals
`residuals.gnlsStruct`	Calculate gnlsStruct Residuals
`residuals.lmList`	Extract lmList Residuals
`residuals.lme`	Extract lme Residuals
`residuals.lmeStruct`	Calculate lmeStruct Residuals
`residuals.nlmeStruct`	Calculate nlmeStruct Residuals
`selfStart`	Construct Self-starting Nonlinear Models
`selfStart.default`	Construct Self-starting Nonlinear Models
`selfStart.formula`	Construct Self-starting Nonlinear Models
`simulate.lme`	simulate lme models
`solve.pdMat`	Calculate Inverse of a Positive-Definite Matrix
`solve.reStruct`	Apply Solve to an reStruct Object
`sortedXyData`	Create a sortedXyData object
`splitFormula`	Split a Formula
`summary.corStruct`	Summarize a corStruct Object
`summary.gls`	Summarize a gls Object
`summary.lmList`	Summarize an lmList Object
`summary.lme`	Summarize an lme Object
`summary.modelStruct`	Summarize a modelStruct Object
`summary.nlsList`	Summarize an nlsList Object
`summary.pdMat`	Summarize a pdMat Object
`summary.varFunc`	Summarize varFunc Object

`update.gls`	Update a gls Object
`update.gnls`	Update a gnls Object
`update.groupedData`	Update a groupedData Object
`update.lmList`	Update an lmList Object
`update.lme`	Update an lme Object
`update.modelStruct`	Update a modelStruct Object
`update.nlme`	Update an nlme Object
`update.nlsList`	Update an nlsList Object
`update.varFunc`	Update varFunc Object
`varClasses`	Variance Function Classes
`varComb`	Combination of Variance Functions
`varConstPower`	Constant Plus Power Variance Function
`varExp`	Exponential Variance Function
`varFixed`	Fixed Variance Function
`varFunc`	Variance Function Structure
`varIdent`	Constant Variance Function
`varPower`	Power Variance Function
`varWeights`	Extract Variance Function Weights
`varWeights.glsStruct`	Variance Weights for glsStruct Object
`varWeights.lmeStruct`	Variance Weights for lmeStruct Object

Multivariate Techniques

`MVNormal`	Multivariate Normal (Gaussian) Distribution
`anova.discrim`	The ANOVA method for the discrim object.
`bdCluster`	Big Data K-Means Clustering
`bdPrincomp`	Big Data Principal Component Analysis
`biplot`	Biplot of Multivariate Data
`biplot.default`	Biplot of Multivariate Data
`biplot.factanal`	Biplots for Principal Components and Factor Analysis Models
`biplot.princomp`	Biplots for Principal Components and Factor Analysis Models
`brush`	Brush a Matrix of Scatter Plots
`cancor`	Canonical Correlation Analysis
`cmdscale`	Classical Metric Multi-Dimensional Scaling
`contour`	Contour Plot
`contour.old`	Contour Plot
`cor`	Variance, Covariance, and Correlation

`cov.mcd`	Minimum Covariance Determinant Estimation - Generic Function
`cov.mcd.default`	Use cov.mcd on a Vector, Matrix, or Data Frame
`cov.mcd.formula`	Use cov.mcd with a formula Object
`cov.mve`	Minimum Volume Ellipsoid Covariance Estimation
`cov.mve.default`	Use cov.mve on a Vector, Matrix, or Data Frame
`cov.mve.formula`	Use cov.mve with a formula Object
`cov.wt`	Weighted Covariance Estimation
`crosstabs`	Create a Contingency Table from Factor Data
`crossvalidate.discrim`	Crossvaliation Method for a discrim Object
`cutree`	Create Groups from Hierarchical Clustering
`discr`	Multiple Discriminant Analysis
`discrim`	Estimate a Discriminant Function
`dist`	Distance Matrix Calculation
`dmvnorm`	Multivariate Normal (Gaussian) Distribution
`faces`	Plot Symbolic Faces
`factanal`	Estimate a Factor Analysis Model
`factanal.fit.mle`	Maximum Likelihood Estimate of Factor Analysis Model
`factanal.fit.principal`	Factor Analysis via Principal Factors
`factanal.mle.control`	Control MLE Factor Analysis Algorithm
`factanal.object`	Factor Analysis Objects
`factanal.start.mle`	Starting Values for MLE Factor Analysis
`fft`	Fast Fourier Transform
`fitted.bdCluster`	Big Data Predict Cluster Membership
`fitted.bdPrincomp`	Big Data Principal Component Scores
`fitted.factanal`	Extract Fitted Correlation Matrix or Residuals
`hclust`	Hierarchical Clustering
`hist2d`	Calculate Two-Dimensional Histogram
`kmeans`	Hartigan's K-Means Clustering
`loadings`	Extract Loadings from an Object
`loadings.default`	Extract Loadings from an Object
`loadings.object`	Loadings Matrix Objects
`loglin`	Contingency Table Analysis
`mahalanobis`	Mahalanobis Distance
`manova`	Fit a Multivariate Analysis of Variance Model
`mstree`	Minimal Spanning Tree and Multivariate Planing
`mulbar`	Multiple Bar Plot
`multicomp.discrim`	The multiple comparisons method for the discrim object.

`obliquemin`	Oblimin Rotations of Loadings Matrix
`orthomax`	Orthomax Rotations of Orthogonal Matrices
`pairs`	Produce All Pairwise Scatter Plots - Generic Function
`pairs.data.frame`	Produce a Scatterplot Matrix for a Data Frame
`pairs.default`	Produce a Scatterplot Matrix
`persp`	Three-Dimensional Perspective Plots
`perspp`	Project Points onto Three-Dimensional Perspective Plots
`plot.bdPrincomp`	Plot of the Variances of Derived Variables
`plot.loadings`	Plot Loadings
`plot.mlm`	Plot a Multiresponse Linear Model
`plot.princomp`	Plot of the Variances of Derived Variables
`pmvnorm`	Multivariate Normal (Gaussian) Distribution
`prcomp`	Principal Components Analysis
`predict.bdCluster`	Big Data Predict Cluster Membership
`predict.bdPrincomp`	Big Data Principal Component Scores
`predict.discrim`	Prediction Method for a discrim Object
`predict.factanal`	Factor Analysis Scores
`predict.princomp`	Principal Component Scores
`princomp`	Principal Components Analysis
`princomp.object`	Principal Component Objects
`print.factanal`	Print a Factor Analysis Object
`print.loadings`	Print a Loadings Matrix
`print.princomp`	Print a Principal Components Object
`print.summary.princomp`	Print a Principal Component Summary
`procrustes`	Procrustes Rotations
`residuals.factanal`	Extract Fitted Correlation Matrix or Residuals
`rmvnorm`	Multivariate Normal (Gaussian) Distribution
`rotate`	Perform Rotations
`rotate.default`	Perform Rotations
`rotate.factanal`	Rotate Factor Analysis Object
`rotate.princomp`	Rotate Factor Analysis Object
`screeplot`	Plot of the Variances of Derived Variables
`screeplot.bdPrincomp`	Plot of the Variances of Derived Variables
`screeplot.princomp`	Plot of the Variances of Derived Variables
`smatrix`	Symbolic Matrix for Multivariate Data
`spin`	Display Rotating Three Dimensional Scatterplots
`stars`	Star Plots of Multivariate Data
`starsymb`	Plot a Single Star Symbol

`subtree`	Extract Part of a Cluster Tree
`summary.bdPrincomp`	Summary of a Principal Components Object
`summary.discrim`	The summary method for the discrim object.
`summary.factanal`	Summary for a Factor Analysis Object
`summary.manova`	Create a Manova Table
`summary.princomp`	Summary of a Principal Components Object
`twoway`	Fit of a Two-Way Table
`var`	Variance, Covariance, and Correlation

nlme Library (version 3)

`ACF`	Autocorrelation Function
`ACF.gls`	Autocorrelation Function for gls Residuals
`ACF.lme`	Autocorrelation Function for lme Residuals
`AIC`	Akaike Information Criterion
`AIC.logLik`	AIC of a logLik Object
`BIC`	Bayesian Information Criterion
`BIC.logLik`	BIC of a logLik Object
`Dim`	Extract Dimensions from an Object
`Dim.corSpatial`	Dimensions of a corSpatial Object
`Dim.corStruct`	Dimensions of a corStruct Object
`Dim.pdMat`	Dimensions of a pdMat Object
`NLSstClosestX`	Inverse Interpolation
`NLSstLfAsymptote`	Horizontal Asymptote on the Left Side
`NLSstRtAsymptote`	Horizontal Asymptote on the Right Side
`Names`	Names Associated with an Object
`Names.formula`	Extract Names from a formula
`Names.pdBlocked`	Names of a pdBlocked Object
`Names.pdMat`	Names of a pdMat Object
`Names.reStruct`	Names of an reStruct Object
`SSasymp`	Asymptotic regression model
`SSasympOff`	Asymptotic Regression Model with an Offset
`SSasympOrig`	Asymptotic Regression Model through the Origin
`SSbiexp`	Biexponential model
`SSfol`	First-order Compartment Model
`SSfpl`	Four-parameter Logistic Model
`SSlogis`	Logistic model
`SSmicmen`	Michaelis-Menten model
`VarCorr`	Extract variance and correlation components

`Variogram`	Calculate Semi-Variogram
`Variogram.corExp`	Calculate Semi-Variogram for a corExp Object
`Variogram.corGaus`	Calculate Semi-Variogram for a corGaus Object
`Variogram.corLin`	Calculate Semi-Variogram for a corLin Object
`Variogram.corRatio`	Calculate Semi-Variogram for a corRatio Object
`Variogram.corSpatial`	Calculate Semi-Variogram for a corSpatial Object
`Variogram.corSpher`	Calculate Semi-Variogram for a corSpher Object
`Variogram.default`	Calculate Semi-Variogram
`Variogram.gls`	Calculate Semi-Variogram for Residuals from a gls Object
`Variogram.lme`	Calculate Semi-Variogram for Residuals from an lme Object
`[.pdMat`	Subscript a pdMat Object
`allCoef`	Extract Coefficients from a Set of Objects
`anova.gls`	Compare Likelihoods of Fitted Objects
`anova.lme`	Compare Likelihoods of Fitted Objects
`as.matrix.corStruct`	Matrix of a corStruct Object
`as.matrix.pdMat`	Matrix of a pdMat Object
`as.matrix.reStruct`	Matrices of an reStruct Object
`asNatural`	Convert to Natural Parameterization
`asNatural.corBand`	Convert corBand Object to Natural Parameterization
`asNatural.corStruct`	Convert corStruct Object to Natural Parameterization
`asNatural.corSymm`	Convert corSymm Object to Natural Parameterization
`asNatural.pdBand`	Convert pdBand Object to Natural Parameterization
`asNatural.pdMat`	Convert pdMat Object to Natural Parameterization
`asNatural.pdSymm`	Convert pdSymm Object to Natural Parameterization
`asNatural.varFunc`	Convert varFunc Object to Natural Parameterization
`asOneFormula`	Combine Formulas of a Set of Objects
`asOneSidedFormula`	Convert to One-Sided Formula
`asTable`	Convert groupedData to a matrix
`augPred`	Augmented Predictions
`balancedGrouped`	Create a groupedData object from a matrix
`coef.corStruct`	Coefficients of a corStruct Object
`coef.gls`	Extract gls Coefficients
`coef.gnls`	Extract gnls Coefficients
`coef.lmList`	Extract lmList Coefficients
`coef.lme`	Extract lme Coefficients
`coef.modelStruct`	Extract modelStruct Object Coefficients
`coef.pdCompSymm`	pdCompSymm Object Coefficients
`coef.pdDiag`	pdDiag Object Coefficients

`coef.pdIdent`	pdIdent Object Coefficients
`coef.pdMat`	pdMat Object Coefficients
`coef.reStruct`	reStruct Object Coefficients
`coef.varFunc`	varFunc Object Coefficients
`coef<-`	Assign Values to Coefficients
`collapse`	Collapse According to Groups
`collapse.groupedData`	Collapse a groupedData Object
`compareFits`	Compare Fitted Objects
`comparePred`	Compare Predictions
`corAR1`	AR(1) Correlation Structure
`corARMA`	ARMA(p,q) Correlation Structure
`corBand`	Banded Correlation Structure
`corBandNat`	Banded Correlation in Natural Parameterization
`corCAR1`	Continuous AR(1) Correlation Structure
`corClasses`	Correlation Structure Classes
`corCompSymm`	Compound Symmetry Correlation Structure
`corExp`	Exponential Correlation Structure
`corFactor`	Factor of a Correlation Matrix
`corFactor.corStruct`	Factor of a corStruct Object Matrix
`corGaus`	Gaussian Correlation Structure
`corLin`	Linear Correlation Structure
`corMatrix`	Extract Correlation Matrix
`corMatrix.corStruct`	Matrix of a corStruct Object
`corMatrix.pdMat`	Extract Correlation Matrix from a pdMat Object
`corMatrix.reStruct`	Extract Correlation Matrix from Components of an reStruct Object
`corRatio`	Rational Quadratic Correlation Structure
`corSpatial`	Spatial Correlation Structure
`corSpher`	Spherical Correlation Structure
`corStrat`	Stratified Correlation Structure
`corSymm`	General Correlation Structure
`corSymmNat`	General Correlation in Natural Parameterization
`covariate<-`	Assign Covariate Values
`covariate<-.varFunc`	Assign varFunc Covariate
`fitted.gls`	Extract gls Fitted Values
`fitted.glsStruct`	Calculate glsStruct Fitted Values
`fitted.gnls`	Extract gnls Fitted Values
`fitted.gnlsStruct`	Calculate gnlsStruct Fitted Values

`fitted.lmList`	Extract lmList Fitted Values
`fitted.lme`	Extract lme Fitted Values
`fitted.lmeStruct`	Calculate lmeStruct Fitted Values
`fitted.nlmeStruct`	Calculate nlmeStruct Fitted Values
`fixed.effects`	Extract Fixed Effects
`fixed.effects.lmList`	Extract lmList Fixed Effects
`fixed.effects.lme`	Extract lme Fixed Effects
`fixef`	Extract Fixed Effects
`fixef.lmList`	Extract lmList Fixed Effects
`fixef.lme`	Extract lme Fixed Effects
`formula.corStruct`	Extract corStruct Object Formula
`formula.gls`	Extract gls Object Formula
`formula.gnls`	Extract gnls Object Formula
`formula.groupedData`	Extract groupedData Formula
`formula.lmList`	Extract lmList Object Formula
`formula.lme`	Extract lme Object Formula
`formula.modelStruct`	Extract modelStruct Object Formula
`formula.nlme`	Extract nlme Object Formula
`formula.nls`	Extract Model Formula from nls Object
`formula.nlsList`	Extract nlsList Object Formula
`formula.pdBlocked`	Extract pdBlocked Formula
`formula.pdMat`	Extract pdMat Formula
`formula.reStruct`	Extract reStruct Object Formula
`formula.varFunc`	Extract varFunc Formula
`gapply`	Apply a Function by Groups
`getCovariate`	Extract Covariate from an Object
`getCovariate.corStruct`	Extract corStruct Object Covariate
`getCovariate.data.frame`	Extract Data Frame Covariate
`getCovariate.varFunc`	Extract varFunc Covariate
`getCovariateFormula`	Extract Covariates Formula
`getData`	Extract Data from an Object
`getData.gls`	Extract gls Object Data
`getData.lmList`	Extract lmList Object Data
`getData.lme`	Extract lme Object Data
`getGroups`	Extract Grouping Factors from an Object
`getGroups.corStruct`	Extract corStruct Groups
`getGroups.data.frame`	Extract Groups from a Data Frame
`getGroups.gls`	Extract gls Object Groups

`getGroups.lmList`	Extract lmList Object Groups
`getGroups.lme`	Extract lme Object Groups
`getGroups.varFunc`	Extract varFunc Groups
`getGroupsFormula`	Extract Grouping Formula
`getGroupsFormula.gls`	Extract gls Object Grouping Formula
`getGroupsFormula.lmList`	Extract lmList Object Grouping Formula
`getGroupsFormula.lme`	Extract lme Object Grouping Formula
`getGroupsFormula.reStruct`	Extract reStruct Grouping Formula
`getInitial`	Get Initial Parameter Estimates
`getResponse`	Extract Response Variable from an Object
`getResponse.data.frame`	Extract Response from a Data Frame
`getResponse.gls`	Extract gls Object Response
`getResponse.lmList`	Extract lmList Object Response
`getResponse.lme`	Extract lme Object Response
`getResponseFormula`	Extract Formula Specifying Response Variable
`getStrata`	Extract Stratification Variable
`getStrata.data.frame`	Extract Strata from a Data Frame
`getStrataFormula`	Extract Stratification Formula
`gls`	Fit Linear Model Using Generalized Least Squares
`glsControl`	Control Values for gls Fit
`glsObject`	Fitted gls Object
`glsStruct`	Generalized Least Squares Structure
`gnls`	Fit Nonlinear Model Using Generalized Least Squares
`gnlsControl`	Control Values for gnls Fit
`gnlsObject`	Fitted gnls Object
`gnlsStruct`	Generalized Nonlinear Least Squares Structure
`groupedData`	Construct a groupedData Object
`gsummary`	Summarize by Groups
`initialize`	Initialize Object
`initialize.corStruct`	Initialize corStruct Object
`initialize.glsStruct`	Initialize a glsStruct Object
`initialize.lmeStruct`	Initialize an lmeStruct Object
`initialize.reStruct`	Initialize reStruct Object
`initialize.varFunc`	Initialize varFunc Object
`intervals`	Confidence Intervals on Coefficients
`intervals.gls`	Confidence Intervals on gls Parameters
`intervals.lmList`	Confidence Intervals on lmList Coefficients
`intervals.lme`	Confidence Intervals on lme Parameters

`isBalanced`	Check a Design for Balance
`isInitialized`	Check if Object is Initialized
`isInitialized.reStruct`	Check if an reStruct Object is Initialized
`isInitialized<-`	Set Initialization Status
`lmList`	List of lm Objects with a Common Model
`lmList.groupedData`	lmList Fit from a groupedData Object
`lme`	Linear Mixed-Effects Models
`lme.groupedData`	LME fit from groupedData Object
`lme.lmList`	LME fit from lmList Object
`lmeControl`	Control Values for lme Fit
`lmeObject`	Fitted lme Object
`lmeScale`	Scale for lme Optimization
`lmeStruct`	Linear Mixed-Effects Structure
`logDet`	Extract the Logarithm of the Determinant
`logDet.corStruct`	Extract corStruct Log-Determinant
`logDet.pdMat`	Extract Log-Determinant from a pdMat Object
`logDet.reStruct`	Extract reStruct Log-Determinants
`logLik`	Extract Log-Likelihood
`logLik.corStruct`	Extract corStruct Log-Likelihood
`logLik.gls`	Log-Likelihood of a gls Object
`logLik.glsStruct`	Log-Likelihood of a glsStruct Object
`logLik.gnls`	Log-Likelihood of a gnls Object
`logLik.gnlsStruct`	Log-Likelihood of a gnlsStruct Object
`logLik.lm`	Extract Log-Likelihood from an lm Object
`logLik.lmList`	Log-Likelihood of an lmList Object
`logLik.lme`	Log-Likelihood of an lme Object
`logLik.lmeStruct`	Log-Likelihood of an lmeStruct Object
`logLik.reStruct`	Calculate reStruct Log-Likelihood
`logLik.varFunc`	Extract varFunc logLik
`matrix<-`	Assign Matrix Values
`matrix<-.pdKron`	Assign Matrix to a pdKron Object
`matrix<-.pdMat`	Assign Matrix to a pdMat Object
`matrix<-.reStruct`	Assign reStruct Matrices
`model.matrix.reStruct`	reStruct Model Matrix
`needUpdate`	Check if Update is Needed
`needUpdate.modelStruct`	Check if a modelStruct Object Needs Updating
`nlme`	Nonlinear Mixed-Effects Models
`nlme.nlsList`	NLME fit from nlsList Object

`nlmeControl`	Control Values for nlme Fit
`nlmeObject`	Fitted nlme Object
`nlmeStruct`	Nonlinear Mixed-Effects Structure
`nlsList`	List of nls Objects with a Common Model
`nlsList.selfStart`	nlsList Fit from a selfStart Function
`pairs.compareFits`	Pairs Plot of compareFits Object
`pairs.lmList`	Pairs Plot of an lmList Object
`pairs.lme`	Pairs Plot of an lme Object
`pdBand`	Banded Positive-Definite Matrix
`pdBandNat`	Banded Positive-Definite Matrix in Natural Parameterization
`pdBlocked`	Positive-Definite Block Diagonal Matrix
`pdClasses`	Positive-Definite Matrix Classes
`pdCompSymm`	Positive-Definite Matrix with Compound Symmetry Structure
`pdConstruct`	Construct pdMat Objects
`pdConstruct.pdBlocked`	Construct pdBlocked Objects
`pdDiag`	Diagonal Positive-Definite Matrix
`pdFactor`	Square-Root Factor of a Positive-Definite Matrix
`pdFactor.reStruct`	Extract Square-Root Factor from Components of an reStruct Object
`pdIdent`	Multiple of the Identity Positive-Definite Matrix
`pdKron`	Kronecker-Product Positive-Definite Matrix
`pdMat`	Positive-Definite Matrix
`pdMatrix`	Extract Matrix or Square-Root Factor from a pdMat Object
`pdMatrix.reStruct`	Extract Matrix or Square-Root Factor from an reStruct Object
`pdNatural`	General Positive-Definite Matrix in Natural Parametrization
`pdStrat`	Stratified Positive-Definite Matrix
`pdSymm`	General Positive-Definite Matrix
`pdSymmNat`	General Positive-Definite Matrix in Natural Parameterization
`plot.ACF`	Plot an ACF Object
`plot.Variogram`	Plot a Variogram Object
`plot.augPred`	Plot an augPred Object
`plot.compareFits`	Plot a compareFits Object
`plot.gls`	Plot a gls Object
`plot.intervals.lmList`	Plot lmList Confidence Intervals
`plot.lmList`	Plot an lmList Object
`plot.lme`	Plot an lme Object

`plot.nffGroupedData`	Plot an nffGroupedData Object
`plot.nfnGroupedData`	Plot an nfnGroupedData Object
`plot.nmGroupedData`	Plot an nmGroupedData Object
`plot.ranef.lmList`	Plot a ranef.lmList Object
`plot.ranef.lme`	Plot a ranef.lme Object
`pooledSD`	Extract Pooled Standard Deviation
`predict.gls`	Predictions from a gls Object
`predict.gnls`	Predictions from a gnls Object
`predict.lmList`	Predictions from an lmList Object
`predict.lme`	Predictions from an lme Object
`predict.nlme`	Predictions from an nlme Object
`print.anova.lme`	Print an anova.lme Object
`print.corStruct`	Print a corStruct Object
`print.gls`	Print a gls Object
`print.groupedData`	Print a groupedData Object
`print.intervals.gls`	Print an intervals.gls Object
`print.intervals.lme`	Print an intervals.lme Object
`print.lmList`	Print an lmList Object
`print.lme`	Print an lme Object
`print.modelStruct`	Print a modelStruct Object
`print.pdMat`	Print a pdMat Object
`print.reStruct`	Print an reStruct Object
`print.summary.corStruct`	Print a summary.corStruct Object
`print.summary.gls`	Print a summary.gls Object
`print.summary.lmList`	Print a summary.lmList Object
`print.summary.lme`	Print a summary.lme Object
`print.summary.modelStruct`	Print a summary.modelStruct Object
`print.summary.pdMat`	Print a summary.pdMat Object
`print.summary.varFunc`	Print a summary.varFunc Object
`print.varFunc`	Print a varFunc Object
`pruneLevels`	Prune Factor Levels
`qqnorm.gls`	Normal Plot of Residuals from a gls Object
`qqnorm.lme`	Normal Plot of Residuals or Random Effects from an lme Object
`random.effects`	Extract Random Effects
`random.effects.lmList`	Extract lmList Random Effects
`random.effects.lme`	Extract lme Random Effects
`ranef`	Extract Random Effects

`ranef.lmList`	Extract lmList Random Effects
`ranef.lme`	Extract lme Random Effects
`reStruct`	Random Effects Structure
`recalc`	Recalculate Condensed Linear Model Object
`recalc.corStruct`	Recalculate for corStruct Object
`recalc.modelStruct`	Recalculate for a modelStruct Object
`recalc.reStruct`	Recalculate for an reStruct Object
`recalc.varFunc`	Recalculate for varFunc Object
`residuals.gls`	Extract gls Residuals
`residuals.glsStruct`	Calculate glsStruct Residuals
`residuals.gnls`	Extract gnls Residuals
`residuals.gnlsStruct`	Calculate gnlsStruct Residuals
`residuals.lmList`	Extract lmList Residuals
`residuals.lme`	Extract lme Residuals
`residuals.lmeStruct`	Calculate lmeStruct Residuals
`residuals.nlmeStruct`	Calculate nlmeStruct Residuals
`selfStart`	Construct Self-starting Nonlinear Models
`selfStart.default`	Construct Self-starting Nonlinear Models
`selfStart.formula`	Construct Self-starting Nonlinear Models
`simulate.lme`	simulate lme models
`solve.pdMat`	Calculate Inverse of a Positive-Definite Matrix
`solve.reStruct`	Apply Solve to an reStruct Object
`sortedXyData`	Create a sortedXyData object
`splitFormula`	Split a Formula
`summary.corStruct`	Summarize a corStruct Object
`summary.gls`	Summarize a gls Object
`summary.lmList`	Summarize an lmList Object
`summary.lme`	Summarize an lme Object
`summary.modelStruct`	Summarize a modelStruct Object
`summary.nlsList`	Summarize an nlsList Object
`summary.pdMat`	Summarize a pdMat Object
`summary.varFunc`	Summarize varFunc Object
`update.gls`	Update a gls Object
`update.gnls`	Update a gnls Object
`update.groupedData`	Update a groupedData Object
`update.lmList`	Update an lmList Object
`update.lme`	Update an lme Object
`update.modelStruct`	Update a modelStruct Object

`update.nlme`	Update an nlme Object
`update.nlsList`	Update an nlsList Object
`update.varFunc`	Update varFunc Object
`varClasses`	Variance Function Classes
`varComb`	Combination of Variance Functions
`varConstPower`	Constant Plus Power Variance Function
`varExp`	Exponential Variance Function
`varFixed`	Fixed Variance Function
`varFunc`	Variance Function Structure
`varIdent`	Constant Variance Function
`varPower`	Power Variance Function
`varWeights`	Extract Variance Function Weights
`varWeights.glsStruct`	Variance Weights for glsStruct Object
`varWeights.lmeStruct`	Variance Weights for lmeStruct Object

Non-linear Regression

`TBS`	Transform Both Sides of a Nonlinear Regression Model
`browser.ms`	Interactive browser for Tracing Minimization
`deriv`	Symbolic Partial Derivatives of Expressions
`deriv.default`	Symbolic Partial Derivatives of Expressions
`getInitial`	Get Initial Parameter Estimates
`integrate`	Integral of a Real-valued Function over an Interval.
`ms`	Fit a Nonlinear Model by Minimum Sums
`ms.control`	Control of minimization in ms
`ms.object`	Nonlinear Fitting Object
`nlminb`	Nonlinear Minimization subject to Box Constraints
`nlminb.control`	Controls User Options for nlminb
`nlregb`	Nonlinear Least Squares Subject to Box Constraints
`nlregb.control`	User Options to Control nlregb
`nls`	Nonlinear Least Squares Regression
`nls.control`	Control the Iteration in nls()
`nls.object`	Nonlinear Least Squares Object
`optim`	General-purpose Optimization
`optimize`	Univariate Optimization of a Continuous Function.
`param`	Parameters in a Parametrized Data Frame
`param<-`	Parameters in a Parametrized Data Frame
`parameters`	Parameters in a Parametrized Data Frame
`parameters<-`	Parameters in a Parametrized Data Frame

`pframe`	Construct a Parameterized Data Frame Object
`pframe.object`	Parametrized Data Frame Objects
`profile`	Profile a Nonlinear Model - Generic Function
`profile.ms`	Profile Method for MS Objects
`summary.ms`	Summary of an ms Model
`uniroot`	Root Finder for Continuous Univariate Functions.

Nonparametric Statistics

`Wilcoxon`	Distribution of Wilcoxon Rank Sum Statistic
`ace`	Regression Model Linearization
`avas`	Additivity and Variance Stabilization for Regression
`bs`	Generate a Basis for Polynomial Splines
`cor.test`	Test for Zero Correlation
`dwilcox`	Distribution of Wilcoxon Rank Sum Statistic
`friedman.test`	Friedman Rank Sum Test
`gam`	Fit a Generalized Additive Model
`gam.control`	Set Control Parameters for gam
`gam.object`	Generalized Additive Model Object
`gam.scope`	Generate a Scope Argument for Stepwise GAM
`kruskal.test`	Kruskal-Wallis Rank Sum Test
`ks.gof`	Kolmogorov-Smirnov Goodness-of-Fit Test
`lo`	Specify a Loess Fit in a GAM Formula
`na.gam.replace`	A Missing Data Filter
`ns`	Generate a Basis Matrix for Natural Cubic Splines
`plot.gam`	Plot Components of a GAM Object
`plot.glm`	Generate Diagnostic Plots for a GLM Object
`plot.preplot.gam`	Plot Components of a GAM Object
`ppreg`	Projection Pursuit Regression
`predict.gam`	Make Predictions from a Fitted GAM Object
`predict.smooth.spline`	Smoothing Spline at New Data
`pwilcox`	Distribution of Wilcoxon Rank Sum Statistic
`qwilcox`	Distribution of Wilcoxon Rank Sum Statistic
`rwilcox`	Distribution of Wilcoxon Rank Sum Statistic
`s`	Specify a Smoothing Spline Fit in a GAM Formula
`step.gam`	Build a GAM Model in a Step-Wise Fashion
`wilcox.test`	Wilcoxon Rank Sum and Signed Rank Sum Tests

Optimization

napsack	Solve Knapsack Problems
nlmin	Find Local Minimum of a Nonlinear Function
nlminb	Nonlinear Minimization subject to Box Constraints
nlregb	Nonlinear Least Squares Subject to Box Constraints
nls	Nonlinear Least Squares Regression
nnls.fit	Nonnegative Least Squares
optim	General-purpose Optimization
optimize	Univariate Optimization of a Continuous Function

Ordinary Differential Equations

ivp.ab	Initial Value Solver for Systems of Ordinary Differential Equations

Package System

getSversion	Spotfire S+ Version Number
install.pkgutils	Download and install the pkgutils library section from CSAN
installFromDataFiles	Install from Spotfire S+ Source Files into a Package
installFromSFiles	Install from Spotfire S+ Source Files into a Package
packageDescription	Gets the Description of the Specified Package
require	Load a Package
system.file	Find Names of Spotfire S+ System Files
unresolvedGlobalReferences	Find Undefined Functions and Data

Package Utils Library (adapted from R)

install.pkgutils	Download and install the pkgutils library section from CSAN
packageDescription	Gets the Description of the Specified Package
read.dcf	Read and Write Data in DCF Format

Printing

cat	General Printing
dQuote	Quote Text
deparse	Turn Parsed Expression into Character Form
dget	Write a Text Representation of a Spotfire S+ Object
file.show	Display Files
dput	Write a Text Representation of a Spotfire S+ Object
format	Formatted Character Data
format.char	Formatting Using C-style Formats
format.default	Format Atomic Data

formatC	Formatting Using C-style Formats
head	Get the First or Last Part of an Object
labels	Labels for Printing or Plotting - Generic function
labels.default	Labels for Printing or Plotting - Generic function
logcat	Add note to log file and/or standard output
lpr	Print a Spotfire S+ object on a printer.
ls.print	Print a Regression Summary
objprint	Print a Spotfire S+ object on a printer.
page	Page Through Data
plotlabels	Labels for Printing or Plotting - Generic function
plotlabels.default	Labels for Printing or Plotting - Generic function
postscript	Graphics Device for PostScript Printers
print	Print Data - Generic function
print.aareg	Print an aareg Object
print.agnes	Use print() on an agnes object
print.array	Print a Multi-Dimensional Array
print.atomic	Print Data with Atomic Modes
print.by	Use print() on a by object
print.char.matrix	Print a char.matrix Object to Make a Formatted Table
print.clara	Use print() on a clara object
print.connection	Print Information about Connection Object
print.crosstabs	Print Output of crosstabs Function
print.cts	Print a Calendar Time Series
print.default	Print Data
print.diana	Use print() on a diana object
print.dissimilarity	Use print() on a dissimilarity object
print.factanal	Print a Factor Analysis Object
print.fanny	Use print() on a fanny object
print.gls	Print a gls Object
print.its	Print Method for Irregular Time Series
print.list	Print a List
print.lmRobMM	Use print() on an lmRobMM object
print.loadings	Print a Loadings Matrix
print.loess	Print Method for a LOESS Object or its Summary
print.manova	Print a Manova Object
print.matrix	Print a Matrix
print.mona	Use print() on a mona object
print.pam	Use print() on a pam object

`print.princomp`	Print a Principal Components Object
`print.rts`	Print Method for Regular Time Series
`print.structure`	Print an Object with Attributes
`print.summary.agnes`	Use print() on a summary.agnes object
`print.summary.clara`	Use print() on a summary.clara object
`print.summary.diana`	Use print() on a summary.diana object
`print.summary.factanal`	Print a Factor Analysis Summary
`print.summary.fanny`	Use print() on a summary.fanny object
`print.summary.lmRobMM`	Use print() on a summary.lmRobMM object
`print.summary.loess`	Print Method for a LOESS Object or its Summary
`print.summary.manova`	Print Manova Summary
`print.summary.mona`	Use print() on a summary.mona object
`print.summary.pam`	Use print() on a summary.pam object
`print.summary.princomp`	Print a Principal Component Summary
`print.summary.survfit`	Print Survfit Summary
`print.tree`	Print a Tree Object
`print.trellis`	Plot (!) a Trellis Object
`print.ts`	Print a Time Series
`ps.colors.rgb`	Colors for PostScript driver
`ps.hsb2rgb`	Convert PostScript Color Specifications
`ps.options`	Set or Return PostScript Options
`ps.options.send`	Send PostScript Options
`ps.rgb2hsb`	Convert PostScript Color Specifications
`ps.setfont.latin1`	PostScript Procedures for Font Selection
`ps.setfont.std`	PostScript Procedures for Font Selection
`pscript`	Graphics Device for PostScript Printers
`quickvu`	Make Simple Vu-Graphs
`read.dcf`	Read and Write Data in DCF Format
`rgb2matrix`	Convert X11 rgb.txt file to matrix
`sQuote`	Quote Text
`summary.default`	Default Summary Method
`tail`	Get the First or Last Part of an Object
`write.dcf`	Reads and Writes Data in Dcf Format
`write.table`	Write Matrix of Data to a File
`zapsmall`	Coerce Small Numbers to Zero for Printing

Probability Distributions and Random Numbers

`Beta`	Beta Distribution

`Binomial`	Binomial Distribution
`Cauchy`	Cauchy Distribution
`Chisquare`	Chi-Square Distribution
`Exponential`	Exponential Distribution
`F`	F Distribution
`GAMMA`	Gamma Distribution
`Geometric`	Geometric Distribution
`Hypergeometric`	Hypergeometric Distribution
`Logistic`	Logistic Distribution
`Lognormal`	Lognormal Distribution
`MVNormal`	Multivariate Normal (Gaussian) Distribution
`NegBinomial`	Negative Binomial Distribution
`Normal`	Normal (Gaussian) Distribution
`Poisson`	Poisson Distribution
`RNGKind`	Sets and Inspects the State of the Random Number Generator
`Stable`	Stable Family of Distributions
`T`	Student's t-Distribution
`Uniform`	Uniform Distribution
`Weibull`	Weibull Distribution
`Wilcoxon`	Distribution of Wilcoxon Rank Sum Statistic
`dbeta`	Beta Distribution
`dbinom`	Binomial Distribution
`dcauchy`	Cauchy Distribution
`dchisq`	Chi-Square Distribution
`ddiscrete`	Gets the Density for a Discrete Distribution
`density`	Estimate Probability Density Function
`dexp`	Exponential Distribution
`df`	F Distribution
`dgamma`	Gamma Distribution
`dgeom`	Geometric Distribution
`dhyper`	Hypergeometric Distribution
`dlnorm`	Lognormal Distribution
`dlogis`	Logistic Distribution
`dmvnorm`	Multivariate Normal (Gaussian) Distribution
`dnbinom`	Negative Binomial Distribution
`dnorm`	Normal (Gaussian) Distribution
`dnrange`	Distribution of the Range of Standard Normals

`dpois`	Poisson Distribution
`dsurvReg`	Distributions available in survReg .
`dt`	Student's t-Distribution
`dunif`	Uniform Distribution
`dweibull`	Weibull Distribution
`dwilcox`	Distribution of Wilcoxon Rank Sum Statistic
`pbeta`	Beta Distribution
`pbinom`	Binomial Distribution
`pcauchy`	Cauchy Distribution
`pchisq`	Chi-Square Distribution
`pexp`	Exponential Distribution
`pdiscrete`	Gets the Cumulative Probability for a Discrete Distribution
`pf`	F Distribution
`pgamma`	Gamma Distribution
`pgeom`	Geometric Distribution
`phyper`	Hypergeometric Distribution
`plnorm`	Lognormal Distribution
`plogis`	Logistic Distribution
`pmvnorm`	Multivariate Normal (Gaussian) Distribution
`pnbinom`	Negative Binomial Distribution
`pnorm`	Normal (Gaussian) Distribution
`pnrange`	Distribution of the Range of Standard Normals
`ppoints`	Plotting Points for QQplots
`ppois`	Poisson Distribution
`psurvReg`	Distributions available in survReg .
`pt`	Student's t-Distribution
`punif`	Uniform Distribution
`pweibull`	Weibull Distribution
`pwilcox`	Distribution of Wilcoxon Rank Sum Statistic
`qbeta`	Beta Distribution
`qbinom`	Binomial Distribution
`qcauchy`	Cauchy Distribution
`qchisq`	Chi-Square Distribution
`qdiscrete`	Gets the Quantiles for a Discrete Distribution
`qdunnett`	Quantiles for Dunnett's Comparisons with Control
`qexp`	Exponential Distribution
`qf`	F Distribution
`qgamma`	Gamma Distribution

`qgeom`	Geometric Distribution
`qhyper`	Hypergeometric Distribution
`qlnorm`	Lognormal Distribution
`qlogis`	Logistic Distribution
`qmvt`	Quantiles for the Equicorrelated Multivariate-t Distribution
`qmvt.sim`	Simulation-based Quantiles of the Multivariate-t Distribution
`qnbinom`	Negative Binomial Distribution
`qnorm`	Normal (Gaussian) Distribution
`qnrange`	Distribution of the Range of Standard Normals
`qpois`	Poisson Distribution
`qqnorm`	Quantile-Quantile Plots - Generic Function
`qqnorm.default`	Quantile-Quantile Plots - Generic Function
`qqplot`	Quantile-Quantile Plots - Generic Function
`qsurvReg`	Distributions available in survReg .
`qt`	Student's t-Distribution
`qtukey`	Quantiles of Tukey's Studentized Range Distribution
`quantile`	Empirical Quantiles
`qunif`	Uniform Distribution
`qweibull`	Weibull Distribution
`qwilcox`	Distribution of Wilcoxon Rank Sum Statistic
`rbeta`	Beta Distribution
`rbinom`	Binomial Distribution
`rcauchy`	Cauchy Distribution
`rchisq`	Chi-Square Distribution
`rdiscrete`	Gets the Random Generation for a Discrete Distribution
`rexp`	Exponential Distribution
`rf`	F Distribution
`rgamma`	Gamma Distribution
`rgeom`	Geometric Distribution
`rhyper`	Hypergeometric Distribution
`rlnorm`	Lognormal Distribution
`rlogis`	Logistic Distribution
`rmvnorm`	Multivariate Normal (Gaussian) Distribution
`rnbinom`	Negative Binomial Distribution
`rnorm`	Normal (Gaussian) Distribution
`rnrange`	Distribution of the Range of Standard Normals
`rpois`	Poisson Distribution

`rstab`	Stable Family of Distributions
`rt`	Student's t-Distribution
`runif`	Uniform Distribution
`rweibull`	Weibull Distribution
`rwilcox`	Distribution of Wilcoxon Rank Sum Statistic
`sample`	Generate Random Samples or Permutations of Data
`set.seed`	Set Seed for Random Number Generators
`stem`	Stem and Leaf Display

Programming

`.Call`	Manipulate Spotfire S+ Objects from C
`.First`	Startup and Wrapup Actions
`.First.local`	Startup and Wrapup Actions
`.JavaField`	Call a Java Method or Get a Java Field Value (Java-enabled Spotfire S+ only)
`.JavaMethod`	Call a Java Method or Get a Java Field Value (Java-enabled Spotfire S+ only)
`.Last`	Startup and Wrapup Actions
`.S.init`	Startup and Wrapup Actions
`CAP_For`	Manage Compute-Intensive Iteration
`DBLEPR`	Printing from a Fortran Routine
`For`	Manage Compute-Intensive Iteration
`INTPR`	Printing from a Fortran Routine
`NextMethod`	Methods Invoked from Spotfire S+ Functions
`Quote`	Return an Unevaluated Expression
`REALPR`	Printing from a Fortran Routine
`Recall`	Recursive Call of the Current Function
`S.init`	Startup and Wrapup Actions
`S_alloc`	Storage Allocation in C
`Syntax`	The Structure of Spotfire S+ Expressions
`Sys.sleep`	Sleep for a Specified Period
`UseMethod`	Methods Invoked from Spotfire S+ Functions
`XERROR`	Error Output and Termination for Fortran Routines
`XERRWV`	Error Output and Termination for Fortran Routines
`access`	Check for file existence, readability, or writability
`again`	Display, Edit, Re-evaluate and Save Past Spotfire S+ Expressions
`all.names`	Find All Names in an Expression
`all.vars`	Find All Variables Used in an Expression

`allTrue`	Test for all inputs returning TRUE .
`allocated`	Memory Allocated in Spotfire S+ Frames
`amatch`	Argument Matching
`as`	Generic Coercion Function
`as.call`	Function Calls
`as.double`	Double Precision Objects
`as.expression`	Expression Objects
`as.function`	Function Objects
`as.integer`	Integer Objects
`as.name`	Name Objects
`as.null`	Null Objects
`assign`	Assign Object to Database or Frame
`break`	Controlling Flow of Evaluation
`browser`	Browse an Object - Generic function
`browser.default`	Browse Interactively in a Function's Frame
`call`	Function Calls
`callGeneric`	Call the Current Generic Function
`call_S`	Call Spotfire S+ from a C Routine
`charmatch`	Partial Matching of Character Strings
`cleanup_call_S`	Call S from a C Routine
`clear.frame`	Move or Clear a Created Frame
`colMaxs`	Row and Column Summaries - min, max, and range
`colMedians`	Compute medians columnwise
`colMins`	Row and Column Summaries - min, max, and range
`colProds`	Columnwise Products
`colQuantiles`	Compute quantiles columnwise
`colRanges`	Row and Column Summaries - min, max, and range
`createChapter`	Create a chapter
`dir`	List the Files in a Directory
`dataset.date`	Time Dataset was Last Changed
`deparse`	Turn Parsed Expression into Character Form
`do.call`	Execute a Function Call
`do.test`	Test Spotfire S+ Functions and Expressions
`double`	Double Precision Objects
`dyn.close`	Open or Close a Shared Library
`dyn.open`	Open or Close a Shared Library
`else`	Conditional Expressions and Operators
`error.level`	Return or Modify the Current Error Level

`eval`	Evaluate an Expression
`file.access`	Check for file existence, readability, or writability
`expression`	Expression Objects
`file.exists`	Check if a File Exists
`file.realpath`	Absolute path name for a file.
`files.in.dir`	Files in a Directory
`find.calls`	Find Calls to a Function
`fix`	Fix a Function.
`for`	Controlling Flow of Evaluation
`frame.attr`	Attributes of the Current Evaluation Frame
`frame.attributes`	Attributes of the Current Evaluation Frame
`function`	The Structure of Spotfire S+ Expressions
`functionComments`	Extract or Replace Function Comments
`hasArg`	Check for Argument Names
`history`	Display, Edit, Re-evaluate and Save Past Spotfire S+ Expressions
`if`	Conditional Expressions and Operators
`inspect`	Diagnostic Evaluation Under Interactive Control
`installFromDataFiles`	Install from Spotfire S+ Source Files into a Package
`installFromSFiles`	Install from Spotfire S+ Source Files into a Package
`integer`	Integer Objects
`interactive`	Test For Interactive Execution of Spotfire S+
`invisible`	Mark Function as Non-Printing
`is.R`	Test If Running Under R
`is.atomic`	Test for Recursive or Atomic Objects
`is.call`	Function Calls
`is.dir`	Check if a Directory Exists
`is.double`	Double Precision Objects
`is.expression`	Expression Objects
`is.function`	Function Objects
`is.integer`	Integer Objects
`is.language`	Test for Recursive or Atomic Objects
`is.monthend`	The End of Month Day Information
`is.name`	Name Objects
`is.null`	Null Objects
`is.recursive`	Test for Recursive or Atomic Objects
`is.symlink`	Check if a Directory Exists
`list.files`	List the Files in a Directory

`is.symbol`	Name Objects
`java.new.plot.action`	Java Graphics Action on a New Plot (spjava Package)
`make.names`	Make Character Strings into Legal Spotfire S+ Names
`makeChapter`	Make a chapter DLL
`match.arg`	Argument Verification Using Partial Matching
`match.call`	Argument Matching
`match.path`	Match Paths or Strings
`missing`	Check for Missing Arguments
`mkdir`	Make a Directory
`mmap.control`	Control Size Threshold at which Objects Are Memory-Mapped
`mode`	Data Mode of the Values in a Vector
`move.frame`	Move or Clear a Created Frame
`nDotArgs`	Number of Arguments to Function
`nargs`	Number of Arguments to Function
`new.frame`	Create Explicit Frames in the Evaluator
`next`	Controlling Flow of Evaluation
`null`	Null Objects
`objcopy`	Assign Copies of Objects to a Database
`objdiff`	Differences Between Spotfire S+ Objects
`on.exit`	Exit Expression For a Function
`parse`	Parse Expressions
`parse.test`	Check if String is a Valid Spotfire S+ Expression
`parseClass`	Parsing User Input Interactively
`parseSome`	Parsing User Input Interactively
`quote`	Return an Unevaluated Expression
`rawFromAscii`	Generate Class Raw Objects from Strings
`rawFromHex`	Generate Class Raw Objects from Strings
`readline`	Read a Line from the Terminal
`repeat`	Controlling Flow of Evaluation
`restart`	Take Over Error Handling
`return`	The Structure of Spotfire S+ Expressions
`rmdir`	Remove a Directory
`rowMaxs`	Row and Column Summaries - min, max, and range
`rowMins`	Row and Column Summaries - min, max, and range
`rowRanges`	Row and Column Summaries - min, max, and range
`seriesLag`	Time Series Lag/Lead Function

seriesLength	The Length of a "signalSeries" ("bdSignalSeries") or "timeSeries" ("bdTimeSeries") object
set.parse.mode	Parse Expressions
setMonitor	Asynchronous Task and Event Management
setReader	Asynchronous Task and Event Management
setSubEvents	Control Monitoring of Sub-events
silent.startup	Silent startup.
sleep	Sleep for a Specified Period
sourceChapter	Source Spotfire S+ code for chapter
std.trace	Control over Tracing
std.xtrace	Control over Tracing
stop	Error and Warning Messages
stopifnot	Stop if not All True
storage	Show Memory Usage
storage.mode	Data Mode of the Values in a Vector
substitute	Substitute in an Expression
switch	Evaluate One of Several Expressions
synchronize	Synchronize Datasets
sys.call	System Evaluator State
sys.calls	System Evaluator State
sys.frame	System Evaluator State
sys.frames	System Evaluator State
sys.function	System Evaluator State
sys.nframe	System Evaluator State
sys.on.exit	System Evaluator State
sys.parent	System Evaluator State
sys.parents	System Evaluator State
sys.status	System Evaluator State
sys.trace	Control over Tracing
system	Execute a Windows Application
tempdir	Returns a Vector of Character Strings that are Virtually Certain to be Unique Filenames
tempfile	Create Unique Names for Files
tprint	Trace Calls to Functions
trace	Trace Calls to Functions
trace.on	Control over Tracing
traceback	Return Call Stack
try	Continue after errors

`unlink`	Remove a File
`unresolvedGlobalReferences`	Find Undefined Functions and Data
`untrace`	Trace Calls to Functions
`warning`	Error and Warning Messages
`while`	Controlling Flow of Evaluation
`xerror`	Error Message Handling and Control for Fortran Routines
`xerror.clear`	Error Message Handling and Control for Fortran Routines
`xerror.maxpr`	Error Message Handling and Control for Fortran Routines
`xerror.setfile`	Error Message Handling and Control for Fortran Routines
`xerror.summary`	Error Message Handling and Control for Fortran Routines
`{`	The Structure of Spotfire S+ Expressions
`||`	Conditional Expressions and Operators

Quality Control

`beyond.limits`	Indices of Points Beyond Control Limits in Shewhart Chart
`cusum`	Plot a Cumulative Sum Quality Control Chart
`cusum.object`	Cusum Quality Control Chart Object
`dnrange`	Distribution of the Range of Standard Normals
`identify.cusum`	Identify Points On a Cusum Quality Control Chart.
`identify.shewhart`	Identify Points On a Shewhart Quality Control Chart.
`limits.R`	Shewhart Quality Control Limits
`limits.c`	Shewhart Quality Control Limits
`limits.np`	Shewhart Quality Control Limits
`limits.p`	Shewhart Quality Control Limits
`limits.s`	Shewhart Quality Control Limits
`limits.u`	Shewhart Quality Control Limits
`limits.xbar`	Shewhart Quality Control Limits
`moving.range`	Moving Standard Deviation and Range Estimation for Control Charts
`moving.sigma`	Moving Standard Deviation and Range Estimation for Control Charts
`pnrange`	Distribution of the Range of Standard Normals
`pointwise`	Pointwise Confidence Limits for Predictions
`qcc`	Create a Quality Control Chart Object
`qnrange`	Distribution of the Range of Standard Normals
`rnrange`	Distribution of the Range of Standard Normals
`runs.target`	Determine Indices of Points Violating the Runs Rule.
`sd.R`	Within Group Standard Deviation for Control Charts
`sd.c`	Within Group Standard Deviation for Control Charts

`sd.ewma`	Within Group Standard Deviation for Control Charts
`sd.mR`	Within Group Standard Deviation for Control Charts
`sd.ma`	Within Group Standard Deviation for Control Charts
`sd.ms`	Within Group Standard Deviation for Control Charts
`sd.np`	Within Group Standard Deviation for Control Charts
`sd.p`	Within Group Standard Deviation for Control Charts
`sd.s`	Within Group Standard Deviation for Control Charts
`sd.u`	Within Group Standard Deviation for Control Charts
`sd.xbar`	Within Group Standard Deviation for Control Charts
`shewhart`	Plot a Shewhart Quality Control Chart
`shewhart.object`	Shewhart Quality Control Chart Object
`shewhart.rules`	Apply Default Rules Functions to a Shewhart Control Chart.
`stats.R`	Summary Statistics for Control Charts
`stats.c`	Summary Statistics for Control Charts
`stats.ewma`	Summary Statistics for Control Charts
`stats.mR`	Summary Statistics for Control Charts
`stats.ma`	Summary Statistics for Control Charts
`stats.ms`	Summary Statistics for Control Charts
`stats.np`	Summary Statistics for Control Charts
`stats.p`	Summary Statistics for Control Charts
`stats.s`	Summary Statistics for Control Charts
`stats.u`	Summary Statistics for Control Charts
`stats.xbar`	Summary Statistics for Control Charts

Regression

`ace`	Regression Model Linearization
`add1.lm`	Add Terms to a Linear Model Object
`add1.lmRobMM`	Add Terms to a Robust Linear Model Object
`alias.lm`	Alias Pattern for Linear Regression Model Objects
`alias.mlm`	Alias Pattern for Linear Regression Model Objects
`arima.object`	ARIMA Model Object
`avas`	Additivity and Variance Stabilization for Regression
`bs`	Generate a Basis for Polynomial Splines
`censorReg.object`	Parametric Censored Regression Model Object
`compare.fits`	Statistics for Comparing Linear Models
`cor.lmRobMM`	Robust Correlation Matrix
`cov.lmRobMM`	Robust Covariance Matrix
`coxph`	Fit Proportional Hazards Regression Model

drop1.lm	Compute an Anova Object by Dropping Terms
drop1.lmRobMM	Compute an Anova Object by Dropping Terms
dummy.coef	Extract Original Coefficients from a Linear Model - Generic Function
durbinWatson	The Durbin-Watson Statistic
durbinWatson.default	The Durbin-Watson Statistic
durbinWatson.lm	The Durbin-Watson Statistic
effects	Single Degree of Freedom Effects from Fitted Model
effects.lm	Single Degree-of-freedom Effects for an lm Object
glm	Fit a Generalized Linear Model
glm.control	Set Control Parameters for Generalized Linear Model
glm.fit	Fit a GLM without Computing the Model Matrix
glm.links	Family Support Objects
glm.object	Generalized Linear Model Object
glm.variances	Family Support Objects
glm.weights	Family Support Objects
hat	Hat Diagonal Regression Diagnostic
kappa	Estimate the Condition Number
kappa.default	Estimate the Condition Number
kappa.lm	Estimate the Condition Number
kappa.upper	Estimate the Condition Number
ksmooth	Densities or Regressions Using Kernel Smoothers
l1fit	Minimum Absolute Residual (L1) Regression
leaps	All-Subset Regressions by Leaps and Bounds
lm	Fit Linear Regression Model
lm.fit	General Fitting for Linear Models
lm.fit.chol	Fit a Linear Model
lm.fit.qr	Fit a Linear Model
lm.fit.svd	Fit a Linear Model
lm.influence	Influence of Observations on Linear Model
lm.object	Linear Least Squares Model Object
lmRobMM	High Breakdown and High Efficiency Robust Regression
lmRobMM.genetic.control	Control Parameters for MM Robust Regression with Genetic Algorithm
lmRobMM.object	Robust Linear Model Objects
lmRobMM.robust.control	Control Parameters for MM Robust Regression
lmRobMM.ucovcoef	Unscaled Covariance Matrix of Coefficient Estimates
lms.object	Least Median of Squares Object

`lmsreg`	Least Median of Squares Robust Regression
`lmsreg.default`	Use lmsreg on a Vector, Matrix, or Data Frame
`lmsreg.formula`	Use lmsreg with a formula Object
`lowess`	Scatter Plot Smoothing
`ls.diag`	Compute Regression Diagnostics
`ls.print`	Print a Regression Summary
`ls.summary`	Compute Regression Diagnostics
`lsfit`	Linear Least-Squares Fit
`lts.object`	Least Trimmed Squares Object
`ltsreg`	Least Trimmed Squares Robust Regression
`ltsreg.default`	Use ltsreg on a Vector, Matrix, or Data Frame
`ltsreg.formula`	Use ltsreg with a formula Object
`mlm`	Linear Least Squares Model Object
`mlm.object`	Linear Least Squares Model Object
`ns`	Generate a Basis Matrix for Natural Cubic Splines
`plot.compare.fits`	Comparison Plots for Linear Models
`plot.lm`	Generate Diagnostic Plots for an LM Object
`plot.lmRobMM`	Generate Diagnostic Plots for a Robust LM Object
`plot.lms`	Diagnostic Plots for an "lms" Object
`plot.lts`	Diagnostic Plots for an "lts" Object
`poly`	Generate a Basis for Polynomial Regression
`poly.transform`	Transform Coefficients from Orthogonal Polynomial Form
`ppreg`	Projection Pursuit Regression
`print.compare.fits`	Print Method for class "compare.fits"
`proj`	Projection Matrix
`proj.default`	Projection Matrix
`rbiwt`	Robust Simple Regression by Biweight
`rreg`	M-Estimates of Regression
`rsquared.lmRobMM`	Robust R-Squared
`scale.lmRobMM`	Robust Scale Estimate
`ssType3`	Compute Type III Sum of Squares - Generic Function
`ssType3.aovlist`	Compute Type III Sum of Squares
`ssType3.default`	Compute Type III Sum of Squares
`ssType3.formula`	Compute Type III Sum of Squares
`ssType3.lm`	Compute Type III Sum of Squares
`step.glm`	Build a GLM Model in a Step-Wise Fashion
`stepwise`	Stepwise Subset Selection for Multiple Regression
`summary.arima`	Summary Method for an ARIMA model fit

`summary.compare.fits`	Summary Method for class "compare.fits"
`summary.glm`	Summary Method for Fitted Generalized Linear Models
`summary.lm`	Summary Method for Linear Models
`summary.lmRobMM`	Summary Method for class "lmRobMM"
`survReg.object`	Parametric Survival Model Object
`survreg.object`	Parametric Survival Model Object
`weights.lmRobMM`	Robust Weight Vector
`wt.andrews`	M-Estimates of Regression
`wt.bisquare`	M-Estimates of Regression
`wt.cauchy`	M-Estimates of Regression
`wt.default`	M-Estimates of Regression
`wt.fair`	M-Estimates of Regression
`wt.hampel`	M-Estimates of Regression
`wt.huber`	M-Estimates of Regression
`wt.logistic`	M-Estimates of Regression
`wt.median`	M-Estimates of Regression
`wt.talworth`	M-Estimates of Regression
`wt.welsch`	M-Estimates of Regression

Regression and Classification Trees

`Subscript.tree`	Subscript a Tree Object
`[.tree`	Subscript a Tree Object
`basis.tree`	Compute Orthogonal Basis for a Tree Object
`browser.tree`	Return Contents of Selected Nodes of a Tree Object
`burl.tree`	View Splits for Nodes of a Tree Object
`cv.tree`	Cross Validation of a Tree Sequence
`data.tree`	Return Data Used To Grow a Tree
`deviance.tree`	Deviance of a Tree Object
`edit.tree`	Change Node Splits in a Binary Tree
`graft.tree`	Graft a Subtree onto the Original Tree
`hist.tree`	Histograms of Predictors at Tree Nodes
`identify.tree`	Identify Observations in Tree Nodes
`meanvar.tree`	Mean-Variance Plot for a Tree Object
`misclass.tree`	Misclassification Errors for a Classification Tree
`na.tree.replace`	Replace NA's in Predictor Variables
`na.tree.replace.all`	Replace NA's in Predictor Variables
`order.tree`	Reorder Terminal Nodes of a Binary Tree.
`partition.tree`	Plot a Low-Dimensional Tree Object

`path.tree`	Follow Paths to Selected Nodes of a Tree
`plot.tree`	Plot a Tree Object
`plot.tree.sequence`	Plot a Tree Sequence
`post.tree`	PostScript Presentation Plot of a Tree Object
`pred.tree`	Predicted Terminal Node from a Fitted Tree Object
`predict.tree`	Predictions from a Fitted Tree Object
`print.tree`	Print a Tree Object
`prune.misclass`	Cost-complexity Pruning of Tree Object
`prune.tree`	Cost-complexity Pruning of Tree Object
`residuals.tree`	Residuals From a Fitted Tree Object
`rug.tree`	Augment a Dendrogram with a Rug
`select.tree`	Select Subtrees of a Tree Object
`shrink.tree`	Optimal Recursive Shrinking of Tree Objects
`snip.tree`	Snip Subtrees of a Tree Object
`summary.tree`	Summarize a Fitted Tree Object
`text.tree`	Place Text on a Dendrogram
`tile.tree`	Augment a Dendrogram with Tiles
`tree`	Fit a Regression or Classification Tree
`tree.control`	Control For Tree Growing
`tree.object`	Regression or Classification Tree Object
`tree.screens`	Partition the Graphics Area for Tree Plots
`tree.sequence.object`	Regression or Classification Tree Object
`Release.Notes`	Spotfire S+ for Windows Release Notes

Resampling (Bootstrap, Jackknife, and Permutations)

`addSamples`	Add New Replicates to Bootstrap Object
`bootstats`	Calculate Bootstrap Statistics
`bootstrap`	General Nonparametric Bootstrapping
`groupAlls`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAlls.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAlls.default`	Computes Group Sums, Means, Variances, Standard Deviations for a Vector or Columns of an Array
`groupAnys`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupAnys.data.frame`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array

`groupAnys.default`	Computes Group Sums, Means, Variances, Standard Deviations, or Other Summaries for a Vector or Columns of an Array
`groupMaxs`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.data.frame`	Computes Group Max for a Vector or Columns of an Array
`groupMaxs.default`	Computes Group Max for a Vector or Columns of an Array
`groupMeans`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.data.frame`	Computes Group Means for a Vector or Columns of an Array
`groupMeans.default`	Computes Group Means for a Vector or Columns of an Array
`groupMins`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.data.frame`	Computes Group Mins for a Vector or Columns of an Array
`groupMins.default`	Computes Group Mins for a Vector or Columns of an Array
`groupProds`	Computes Group Products for a Vector or Columns of an Array
`groupProds.data.frame`	Computes Group Products for a Vector or Columns of an Array
`groupProds.default`	Computes Group Products for a Vector or Columns of an Array
`groupRanges`	Computes Group Ranges for a Vector or Columns of an Array
`groupRanges.data.frame`	Computes Group Ranges for a Vector or Columns of an Array
`groupRanges.default`	Computes Group Ranges for a Vector or Columns of an Array
`groupStdevs`	Computes group standard deviations for a vector or columns of an array.
`groupSums`	Computes Group Sums for a Vector or Columns of an Array
`groupSums.data.frame`	Computes Group Sums for a Vector or Columns of an Array
`groupSums.default`	Computes Group Sums for a Vector or Columns of an Array
`groupVars`	Computes Group Variances for a Vector or Columns of an Array
`groupVars.data.frame`	Computes Group Variances for a Vector or Columns of an Array
`groupVars.default`	Computes Group Variances for a Vector or Columns of an Array
`jack.after.bootstrap`	Perform Jackknife-After-Bootstrap
`jackknife`	General Nonparametric Jackknife
`jackstats`	Calculate Jackknife Statistics
`limits.bca`	Calculate BCa Confidence Limits
`limits.emp`	Calculate Empirical Percentiles of Replicates

`plot.jack.after.bootstrap`	Influence Plot Using Jackknife-After-Bootstrap
`plot.resamp`	Plot Method for Resample Objects
`print.jack.after.bootstrap`	Print a Jackknife-After-Bootstrap Object
`print.resamp`	Print a Resample Object
`print.summary.bootstrap`	Print a Summary of Bootstrap Object
`print.summary.resamp`	Print a Summary of Resample Object
`qqnorm.resamp`	Quantile-Quantile Plots for Resample Objects
`resamp.get.dimnames`	Support for Bootstrap and Jackknife
`resamp.get.fit.func`	Support for Bootstrap and Jackknife
`resamp.get.indices`	Support for Bootstrap and Jackknife
`samp.boot.bal`	Construct Matrix of Resamples
`samp.boot.mc`	Construct Matrix of Resamples
`samp.permute`	Construct Matrix of Resamples
`subtractMeans`	Subtract group means from each entry for a vector or columns of an array.
`summary.bootstrap`	Summary Method for Bootstrap Objects
`summary.resamp`	Summary Method for Resample Objects
`update.bootstrap`	Add New Replicates to Bootstrap Object

Robust/Resistant Techniques

`acm.ave`	Two Filter Robust Smoother
`acm.filt`	Approximate Conditional Mean Robust Filter
`acm.smo`	Approximate Conditional Mean Robust Smoother
`add1.lmRobMM`	Add Terms to a Robust Linear Model Object
`anova.lmRobMM`	Use anova() on an lmRobMM object
`ar.gm`	Fit Autoregression Using Robust GM-Estimates
`chb`	Constants for Huber and Bisquare Psi
`chi.weight`	Chi (Weight) Function
`compare.fits`	Statistics for Comparing Linear Models
`cor.lmRobMM`	Robust Correlation Matrix
`cov.lmRobMM`	Robust Covariance Matrix
`cov.mcd`	Minimum Covariance Determinant Estimation - Generic Function
`cov.mcd.default`	Use cov.mcd on a Vector, Matrix, or Data Frame
`cov.mcd.formula`	Use cov.mcd with a formula Object
`cov.mve`	Minimum Volume Ellipsoid Covariance Estimation
`cov.mve.default`	Use cov.mve on a Vector, Matrix, or Data Frame
`cov.mve.formula`	Use cov.mve with a formula Object
`drop1.lmRobMM`	Compute an Anova Object by Dropping Terms

`l1fit`	Minimum Absolute Residual (L1) Regression
`lmRobMM`	High Breakdown and High Efficiency Robust Regression
`lmRobMM.effvy`	Constant for the Optimal Loss (Weight) Function
`lmRobMM.genetic.control`	Control Parameters for MM Robust Regression with Genetic Algorithm
`lmRobMM.object`	Robust Linear Model Objects
`lmRobMM.robust.control`	Control Parameters for MM Robust Regression
`lmRobMM.ucovcoef`	Unscaled Covariance Matrix of Coefficient Estimates
`lms.object`	Least Median of Squares Object
`lmsreg`	Least Median of Squares Robust Regression
`lmsreg.default`	Use lmsreg on a Vector, Matrix, or Data Frame
`lmsreg.formula`	Use lmsreg with a formula Object
`location.lms`	Univariate Location and Scale Estimation.
`location.lts`	Univariate Location and Scale Estimation
`location.m`	Robust M-estimates of Location
`lowess`	Scatter Plot Smoothing
`lts.object`	Least Trimmed Squares Object
`ltsreg`	Least Trimmed Squares Robust Regression
`ltsreg.default`	Use ltsreg on a Vector, Matrix, or Data Frame
`ltsreg.formula`	Use ltsreg with a formula Object
`mad`	Robust Estimates of Scale
`mcd.object`	Minimum Covariance Determinant Object
`mean`	Mean Value (Arithmetic Average)
`median`	Median
`mve.object`	Minimum Volume Ellipsoid Object
`plot.compare.fits`	Comparison Plots for Linear Models
`plot.lmRobMM`	Generate Diagnostic Plots for a Robust LM Object
`plot.lms`	Diagnostic Plots for an "lms" Object
`plot.lts`	Diagnostic Plots for an "lts" Object
`plot.mcd`	Diagnostic Plots for an "mcd" Object
`plot.mve`	Diagnostic Plots for an "mve" Object
`print.compare.fits`	Print Method for class "compare.fits"
`psi.weight`	Psi (Weight) Function
`psp.weight`	Psp (Weight) Function
`rbiwt`	Robust Simple Regression by Biweight
`rho.weight`	Rho (Weight) Function
`robust`	Generate a Robust Family Object
`rreg`	M-Estimates of Regression

rsquared.lmRobMM	Robust R-Squared
sabl	Seasonal Decomposition
scale.a	Robust Estimates of Scale
scale.lmRobMM	Robust Scale Estimate
scale.tau	Robust Estimates of Scale
smooth	Nonlinear Smoothing Using Running Medians
summary.compare.fits	Summary Method for class "compare.fits"
summary.lmRobMM	Summary Method for class "lmRobMM"
twoway	Fit of a Two-Way Table
varcomp	Variance Components
varcomp.object	Variance Component Objects
weights.lmRobMM	Robust Weight Vector
wt.andrews	M-Estimates of Regression
wt.bisquare	M-Estimates of Regression
wt.cauchy	M-Estimates of Regression
wt.default	M-Estimates of Regression
wt.fair	M-Estimates of Regression
wt.hampel	M-Estimates of Regression
wt.huber	M-Estimates of Regression
wt.logistic	M-Estimates of Regression
wt.median	M-Estimates of Regression
wt.talworth	M-Estimates of Regression
wt.welsch	M-Estimates of Regression

Spotfire S+ Session Environment

Command.edit	Command Line Editing in Spotfire S+
Sys.getenv	Get Environment Variables
Sys.getpid	Get Process ID
Sys.putenv	Set Environment Variables
Sys.setenv	Sets Environment Variables for Use by Other Processes Called from Spotfire S+
allocated	Memory Allocated in Spotfire S+ Frames
dos.time	Execution Times
exit	Quit the Spotfire S+ Session
getenv	Get Environment Variables
gethostname	Get the name of the computer Spotfire S+ is running on
getOption	Set or Return Options
getSversion	Spotfire S+ Version Number

`getwd`	Get current directory.
`info`	Information on the Current Spotfire S+
`log.import`	Utility functions for verbose logging.
`log.searchPaths`	Utility functions for verbose logging.
`mem.tally.report`	Measure Memory Usage
`mem.tally.reset`	Measure Memory Usage
`memory.size`	Total Memory Used by Running Spotfire S+
`object.size`	Internal Size of an Object
`options`	Set or Return Options
`par`	Graphical Parameters
`path.expand`	Expand ~ in File Paths
`platform`	Spotfire S+ Platform Information.
`print.mem.tally`	Measure Memory Usage
`proc.time`	Running Time of Spotfire S+
`q`	Quit From Spotfire S+
`setwd`	Get or set current directory
`storage`	Show Memory Usage
`sys.call`	System Evaluator State
`sys.calls`	System Evaluator State
`sys.frame`	System Evaluator State
`sys.frames`	System Evaluator State
`sys.function`	System Evaluator State
`sys.nframe`	System Evaluator State
`sys.on.exit`	System Evaluator State
`sys.parent`	System Evaluator State
`sys.parents`	System Evaluator State
`sys.status`	System Evaluator State
`sys.time`	System and clock time of Spotfire S+
`system`	Execute a Windows Application
`system.stat`	System Information
`unix.time`	Execution Times
`verbose`	Tell if we are logging details of session.
`version`	Spotfire S+ Version Information.
`whoami`	Get User Name

Smoothing Operations

`ace`	Regression Model Linearization
`acm.ave`	Two Filter Robust Smoother

`acm.filt`	Approximate Conditional Mean Robust Filter
`acm.smo`	Approximate Conditional Mean Robust Smoother
`avas`	Additivity and Variance Stabilization for Regression
`density`	Estimate Probability Density Function
`ksmooth`	Densities or Regressions Using Kernel Smoothers
`lowess`	Scatter Plot Smoothing
`ppreg`	Projection Pursuit Regression
`predict.smooth.spline`	Smoothing Spline at New Data
`s`	Specify a Smoothing Spline Fit in a GAM Formula
`scatter.smooth`	Scatter Plot with a Smooth Curve
`smooth`	Nonlinear Smoothing Using Running Medians
`smooth.spline`	Fit a Smoothing Spline
`spec.pgram`	Estimate Spectrum with Smoothed Periodogram
`spec.smo`	Perform Modified Daniell (Rectangular) Smoothing
`spectrum`	Estimate Spectrum of Time Series
`supsmu`	Scatter Plot Smoothing Using Super Smoother

Statistical Inference

`binom.test`	Exact Binomial Test
`binomial.sample.size`	Power and Sample Size
`cdf.compare`	Graphs Two Cumulative Distribution Functions.
`chisq.gof`	Chi square Goodness-of-Fit Test
`chisq.test`	Pearson's Chi-square Test for Count Data
`cor.test`	Test for Zero Correlation
`fisher.test`	Fisher's Exact Test for Count Data
`friedman.test`	Friedman Rank Sum Test
`htest.object`	Hypotheses Testing Objects
`kruskal.test`	Kruskal-Wallis Rank Sum Test
`ks.gof`	Kolmogorov-Smirnov Goodness-of-Fit Test
`mantelhaen.test`	Mantel-Haenszel Chi-Square Test for Count Data
`mcnemar.test`	McNemar's Chi-Square Test for Count Data
`normal.sample.size`	Power and Sample Size
`prop.test`	Proportions Tests
`shapiro.test`	Shapiro-Wilk Test for Normality
`ssType3`	Compute Type III Sum of Squares - Generic Function
`ssType3.aovlist`	Compute Type III Sum of Squares
`ssType3.default`	Compute Type III Sum of Squares
`ssType3.formula`	Compute Type III Sum of Squares

`ssType3.lm`	Compute Type III Sum of Squares
`t.test`	Student's t-Tests
`var.test`	F Test to Compare Two Variances
`wilcox.test`	Wilcoxon Rank Sum and Signed Rank Sum Tests

Statistical Models

`ACF`	Autocorrelation Function
`ACF.gls`	Autocorrelation Function for gls Residuals
`ACF.lme`	Autocorrelation Function for lme Residuals
`AIC`	Akaike Information Criterion
`AIC.logLik`	AIC of a logLik Object
`BIC`	Bayesian Information Criterion
`BIC.logLik`	BIC of a logLik Object
`Dim`	Extract Dimensions from an Object
`Dim.corSpatial`	Dimensions of a corSpatial Object
`Dim.corStruct`	Dimensions of a corStruct Object
`Dim.pdMat`	Dimensions of a pdMat Object
`Names`	Names Associated with an Object
`Names.formula`	Extract Names from a formula
`Names.pdBlocked`	Names of a pdBlocked Object
`Names.pdMat`	Names of a pdMat Object
`Names.reStruct`	Names of an reStruct Object
`SSasymp`	Asymptotic regression model
`SSasympOff`	Asymptotic Regression Model with an Offset
`SSasympOrig`	Asymptotic Regression Model through the Origin
`SSbiexp`	Biexponential model
`SSfol`	First-order Compartment Model
`SSfpl`	Four-parameter Logistic Model
`SSlogis`	Logistic model
`SSmicmen`	Michaelis-Menten model
`VarCorr`	Extract variance and correlation components
`Variogram`	Calculate Semi-Variogram
`Variogram.corExp`	Calculate Semi-Variogram for a corExp Object
`Variogram.corGaus`	Calculate Semi-Variogram for a corGaus Object
`Variogram.corLin`	Calculate Semi-Variogram for a corLin Object
`Variogram.corRatio`	Calculate Semi-Variogram for a corRatio Object
`Variogram.corSpatial`	Calculate Semi-Variogram for a corSpatial Object
`Variogram.corSpher`	Calculate Semi-Variogram for a corSpher Object

`Variogram.default`	Calculate Semi-Variogram
`Variogram.gls`	Calculate Semi-Variogram for Residuals from a gls Object
`Variogram.lme`	Calculate Semi-Variogram for Residuals from an lme Object
`[.pdMat`	Subscript a pdMat Object
`ace`	Regression Model Linearization
`add.scope`	Resolve Scopes for Formulas
`add1`	Compute Models by Adding One Term - Generic Function
`add1.lmRobMM`	Add Terms to a Robust Linear Model Object
`allCoef`	Extract Coefficients from a Set of Objects
`anova`	Compute an Anova Table - Generic function
`anova.gam`	ANOVA Table for a GAM Object
`anova.gls`	Compare Likelihoods of Fitted Objects
`anova.lmRobMM`	Use anova() on an lmRobMM object
`anova.lme`	Compare Likelihoods of Fitted Objects
`aov`	Fit an Analysis of Variance Model
`ar`	Fit Univariate or Multivariate Autoregressive Model
`arima.mle`	ARIMA Modeling via Gaussian Maximum Likelihood
`arima.object`	ARIMA Model Object
`as.data.frame`	Construct a Data Frame Object
`as.data.frame.data.frame`	Construct a Data Frame Object
`as.matrix.corStruct`	Matrix of a corStruct Object
`as.matrix.pdMat`	Matrix of a pdMat Object
`as.matrix.reStruct`	Matrices of an reStruct Object
`asNatural`	Convert to Natural Parameterization
`asNatural.corBand`	Convert corBand Object to Natural Parameterization
`asNatural.corStruct`	Convert corStruct Object to Natural Parameterization
`asNatural.corSymm`	Convert corSymm Object to Natural Parameterization
`asNatural.pdBand`	Convert pdBand Object to Natural Parameterization
`asNatural.pdMat`	Convert pdMat Object to Natural Parameterization
`asNatural.pdSymm`	Convert pdSymm Object to Natural Parameterization
`asNatural.varFunc`	Convert varFunc Object to Natural Parameterization
`asOneFormula`	Combine Formulas of a Set of Objects
`asOneSidedFormula`	Convert to One-Sided Formula
`augPred`	Augmented Predictions
`avas`	Additivity and Variance Stabilization for Regression
`bdFrame`	Construct a bdFrame Object
`bdGlm`	Big Data Generalized Linear Model
`bdPrincomp`	Big Data Principal Component Analysis

`cmdscale`	Classical Metric Multi-Dimensional Scaling
`coef`	Extract Coefficients, etc. from a Model
`coef.corStruct`	Coefficients of a corStruct Object
`coef.default`	Extract Coefficients, etc. from a Model
`coef.gls`	Extract gls Coefficients
`coef.gnls`	Extract gnls Coefficients
`coef.lmList`	Extract lmList Coefficients
`coef.lme`	Extract lme Coefficients
`coef.modelStruct`	Extract modelStruct Object Coefficients
`coef.pdCompSymm`	pdCompSymm Object Coefficients
`coef.pdDiag`	pdDiag Object Coefficients
`coef.pdIdent`	pdIdent Object Coefficients
`coef.pdMat`	pdMat Object Coefficients
`coef.reStruct`	reStruct Object Coefficients
`coef.varFunc`	varFunc Object Coefficients
`coef<-`	Assign Values to Coefficients
`coefficients`	Extract Coefficients, etc. from a Model
`collapse`	Collapse According to Groups
`collapse.groupedData`	Collapse a groupedData Object
`compare.fits`	Statistics for Comparing Linear Models
`compareFits`	Compare Fitted Objects
`comparePred`	Compare Predictions
`corAR1`	AR(1) Correlation Structure
`corARMA`	ARMA(p,q) Correlation Structure
`corBand`	Banded Correlation Structure
`corBandNat`	Banded Correlation in Natural Parameterization
`corCAR1`	Continuous AR(1) Correlation Structure
`corClasses`	Correlation Structure Classes
`corCompSymm`	Compound Symmetry Correlation Structure
`corExp`	Exponential Correlation Structure
`corFactor`	Factor of a Correlation Matrix
`corFactor.corStruct`	Factor of a corStruct Object Matrix
`corGaus`	Gaussian Correlation Structure
`corLin`	Linear Correlation Structure
`corMatrix`	Extract Correlation Matrix
`corMatrix.corStruct`	Matrix of a corStruct Object
`corMatrix.pdMat`	Extract Correlation Matrix from a pdMat Object

`corMatrix.reStruct`	Extract Correlation Matrix from Components of an reStruct Object
`corRatio`	Rational Quadratic Correlation Structure
`corSpatial`	Spatial Correlation Structure
`corSpher`	Spherical Correlation Structure
`corStrat`	Stratified Correlation Structure
`corSymm`	General Correlation Structure
`corSymmNat`	General Correlation in Natural Parameterization
`covariate<-`	Assign Covariate Values
`covariate<-.varFunc`	Assign varFunc Covariate
`coxme`	Fit a Mixed-Effects Cox Model
`coxph`	Fit Proportional Hazards Regression Model
`crossvalidate.discrim`	Crossvaliation Method for a discrim Object
`data.frame`	Construct a Data Frame Object
`data.frameAux`	Construct a Data Frame Object
`drop.scope`	Resolve Scopes for Formulas
`drop1`	Compute Models by Dropping Terms - Generic function
`drop1.lmRobMM`	Compute an Anova Object by Dropping Terms
`dummy.coef`	Extract Original Coefficients from a Linear Model - Generic Function
`factanal`	Estimate a Factor Analysis Model
`factor.scope`	Resolve Scopes for Formulas
`fitted`	Extract Coefficients, etc. from a Model
`fitted.default`	Extract Coefficients, etc. from a Model
`fitted.gls`	Extract gls Fitted Values
`fitted.glsStruct`	Calculate glsStruct Fitted Values
`fitted.gnls`	Extract gnls Fitted Values
`fitted.gnlsStruct`	Calculate gnlsStruct Fitted Values
`fitted.lmList`	Extract lmList Fitted Values
`fitted.lme`	Extract lme Fitted Values
`fitted.lmeStruct`	Calculate lmeStruct Fitted Values
`fitted.nlmeStruct`	Calculate nlmeStruct Fitted Values
`fitted.values`	Extract Coefficients, etc. from a Model
`fixed.effects`	Extract Fixed Effects
`fixed.effects.lmList`	Extract lmList Fixed Effects
`fixed.effects.lme`	Extract lme Fixed Effects
`fixef`	Extract Fixed Effects
`fixef.lmList`	Extract lmList Fixed Effects

`fixef.lme`	Extract lme Fixed Effects
`formula.corStruct`	Extract corStruct Object Formula
`formula.gls`	Extract gls Object Formula
`formula.gnls`	Extract gnls Object Formula
`formula.groupedData`	Extract groupedData Formula
`formula.lmList`	Extract lmList Object Formula
`formula.lme`	Extract lme Object Formula
`formula.modelStruct`	Extract modelStruct Object Formula
`formula.nlme`	Extract nlme Object Formula
`formula.nls`	Extract Model Formula from nls Object
`formula.nlsList`	Extract nlsList Object Formula
`formula.pdBlocked`	Extract pdBlocked Formula
`formula.pdMat`	Extract pdMat Formula
`formula.reStruct`	Extract reStruct Object Formula
`formula.varFunc`	Extract varFunc Formula
`gam`	Fit a Generalized Additive Model
`getCovariate`	Extract Covariate from an Object
`getCovariate.corStruct`	Extract corStruct Object Covariate
`getCovariate.data.frame`	Extract Data Frame Covariate
`getCovariate.varFunc`	Extract varFunc Covariate
`getCovariateFormula`	Extract Covariates Formula
`getData`	Extract Data from an Object
`getData.gls`	Extract gls Object Data
`getData.lmList`	Extract lmList Object Data
`getData.lme`	Extract lme Object Data
`getGroups`	Extract Grouping Factors from an Object
`getGroups.corStruct`	Extract corStruct Groups
`getGroups.data.frame`	Extract Groups from a Data Frame
`getGroups.gls`	Extract gls Object Groups
`getGroups.lmList`	Extract lmList Object Groups
`getGroups.lme`	Extract lme Object Groups
`getGroups.varFunc`	Extract varFunc Groups
`getGroupsFormula`	Extract Grouping Formula
`getGroupsFormula.gls`	Extract gls Object Grouping Formula
`getGroupsFormula.lmList`	Extract lmList Object Grouping Formula
`getGroupsFormula.lme`	Extract lme Object Grouping Formula
`getGroupsFormula.reStruct`	Extract reStruct Grouping Formula
`getInitial`	Get Initial Parameter Estimates

`getResponse`	Extract Response Variable from an Object
`getResponse.data.frame`	Extract Response from a Data Frame
`getResponse.gls`	Extract gls Object Response
`getResponse.lmList`	Extract lmList Object Response
`getResponse.lme`	Extract lme Object Response
`getResponseFormula`	Extract Formula Specifying Response Variable
`getStrata`	Extract Stratification Variable
`getStrata.data.frame`	Extract Strata from a Data Frame
`getStrataFormula`	Extract Stratification Formula
`glm`	Fit a Generalized Linear Model
`gls`	Fit Linear Model Using Generalized Least Squares
`glsControl`	Control Values for gls Fit
`glsObject`	Fitted gls Object
`glsStruct`	Generalized Least Squares Structure
`gnls`	Fit Nonlinear Model Using Generalized Least Squares
`gnlsControl`	Control Values for gnls Fit
`gnlsObject`	Fitted gnls Object
`gnlsStruct`	Generalized Nonlinear Least Squares Structure
`initialize`	Initialize Object
`initialize.corStruct`	Initialize corStruct Object
`initialize.glsStruct`	Initialize a glsStruct Object
`initialize.lmeStruct`	Initialize an lmeStruct Object
`initialize.reStruct`	Initialize reStruct Object
`initialize.varFunc`	Initialize varFunc Object
`intervals`	Confidence Intervals on Coefficients
`intervals.gls`	Confidence Intervals on gls Parameters
`intervals.lmList`	Confidence Intervals on lmList Coefficients
`intervals.lme`	Confidence Intervals on lme Parameters
`is.data.frame`	Construct a Data Frame Object
`isInitialized`	Check if Object is Initialized
`isInitialized.reStruct`	Check if an reStruct Object is Initialized
`isInitialized<-`	Set Initialization Status
`l1fit`	Minimum Absolute Residual (L1) Regression
`leaps`	All-Subset Regressions by Leaps and Bounds
`lm`	Fit Linear Regression Model
`lmList`	List of lm Objects with a Common Model
`lmList.groupedData`	lmList Fit from a groupedData Object
`lmRobMM`	High Breakdown and High Efficiency Robust Regression

`lmRobMM.object`	Robust Linear Model Objects
`lme`	Linear Mixed-Effects Models
`lme.groupedData`	LME fit from groupedData Object
`lme.lmList`	LME fit from lmList Object
`lmeControl`	Control Values for lme Fit
`lmeObject`	Fitted lme Object
`lmeScale`	Scale for lme Optimization
`lmeStruct`	Linear Mixed-Effects Structure
`lmekin`	Mixed Effects Model Using a Kinship Matrix.
`loess`	Fit a Local Regression Model
`logDet`	Extract the Logarithm of the Determinant
`logDet.corStruct`	Extract corStruct Log-Determinant
`logDet.pdMat`	Extract Log-Determinant from a pdMat Object
`logDet.reStruct`	Extract reStruct Log-Determinants
`logLik`	Extract Log-Likelihood
`logLik.corStruct`	Extract corStruct Log-Likelihood
`logLik.gls`	Log-Likelihood of a gls Object
`logLik.glsStruct`	Log-Likelihood of a glsStruct Object
`logLik.gnls`	Log-Likelihood of a gnls Object
`logLik.gnlsStruct`	Log-Likelihood of a gnlsStruct Object
`logLik.lm`	Extract Log-Likelihood from an lm Object
`logLik.lmList`	Log-Likelihood of an lmList Object
`logLik.lme`	Log-Likelihood of an lme Object
`logLik.lmeStruct`	Log-Likelihood of an lmeStruct Object
`logLik.reStruct`	Calculate reStruct Log-Likelihood
`logLik.varFunc`	Extract varFunc logLik
`loglin`	Contingency Table Analysis
`lsfit`	Linear Least-Squares Fit
`manova`	Fit a Multivariate Analysis of Variance Model
`matrix<-`	Assign Matrix Values
`matrix<-.pdKron`	Assign Matrix to a pdKron Object
`matrix<-.pdMat`	Assign Matrix to a pdMat Object
`matrix<-.reStruct`	Assign reStruct Matrices
`model.matrix.reStruct`	reStruct Model Matrix
`ms`	Fit a Nonlinear Model by Minimum Sums
`mstree`	Minimal Spanning Tree and Multivariate Planing
`needUpdate`	Check if Update is Needed
`needUpdate.modelStruct`	Check if a modelStruct Object Needs Updating

`nlme`	Nonlinear Mixed-Effects Models
`nlme.nlsList`	NLME fit from nlsList Object
`nlmeControl`	Control Values for nlme Fit
`nlmeObject`	Fitted nlme Object
`nlmeStruct`	Nonlinear Mixed-Effects Structure
`nlregb`	Nonlinear Least Squares Subject to Box Constraints
`nls`	Nonlinear Least Squares Regression
`nlsList`	List of nls Objects with a Common Model
`nlsList.selfStart`	nlsList Fit from a selfStart Function
`oneway`	Fits a One-way Model to Univariate Data Grouped by a Factor
`pairs.compareFits`	Pairs Plot of compareFits Object
`pairs.lmList`	Pairs Plot of an lmList Object
`pairs.lme`	Pairs Plot of an lme Object
`pdBand`	Banded Positive-Definite Matrix
`pdBandNat`	Banded Positive-Definite Matrix in Natural Parameterization
`pdBlocked`	Positive-Definite Block Diagonal Matrix
`pdClasses`	Positive-Definite Matrix Classes
`pdCompSymm`	Positive-Definite Matrix with Compound Symmetry Structure
`pdConstruct`	Construct pdMat Objects
`pdConstruct.pdBlocked`	Construct pdBlocked Objects
`pdDiag`	Diagonal Positive-Definite Matrix
`pdFactor`	Square-Root Factor of a Positive-Definite Matrix
`pdFactor.reStruct`	Extract Square-Root Factor from Components of an reStruct Object
`pdIdent`	Multiple of the Identity Positive-Definite Matrix
`pdKron`	Kronecker-Product Positive-Definite Matrix
`pdMat`	Positive-Definite Matrix
`pdMatrix`	Extract Matrix or Square-Root Factor from a pdMat Object
`pdMatrix.reStruct`	Extract Matrix or Square-Root Factor from an reStruct Object
`pdNatural`	General Positive-Definite Matrix in Natural Parametrization
`pdStrat`	Stratified Positive-Definite Matrix
`pdSymm`	General Positive-Definite Matrix
`pdSymmNat`	General Positive-Definite Matrix in Natural Parameterization
`plot.ACF`	Plot an ACF Object
`plot.Variogram`	Plot a Variogram Object

`plot.augPred`	Plot an augPred Object
`plot.compare.fits`	Comparison Plots for Linear Models
`plot.compareFits`	Plot a compareFits Object
`plot.gls`	Plot a gls Object
`plot.intervals.lmList`	Plot lmList Confidence Intervals
`plot.lm`	Generate Diagnostic Plots for an LM Object
`plot.lmList`	Plot an lmList Object
`plot.lmRobMM`	Generate Diagnostic Plots for a Robust LM Object
`plot.lme`	Plot an lme Object
`plot.nffGroupedData`	Plot an nffGroupedData Object
`plot.nfnGroupedData`	Plot an nfnGroupedData Object
`plot.nmGroupedData`	Plot an nmGroupedData Object
`plot.ranef.lmList`	Plot a ranef.lmList Object
`plot.ranef.lme`	Plot a ranef.lme Object
`pooledSD`	Extract Pooled Standard Deviation
`ppreg`	Projection Pursuit Regression
`predict`	Make Predictions from a Fitted Model Object
`predict.arima`	Use predict() on a arima Class Object
`predict.discrim`	Prediction Method for a discrim Object
`predict.gls`	Predictions from a gls Object
`predict.gnls`	Predictions from a gnls Object
`predict.lmList`	Predictions from an lmList Object
`predict.lme`	Predictions from an lme Object
`predict.nlme`	Predictions from an nlme Object
`princomp`	Principal Components Analysis
`print.anova.lme`	Print an anova.lme Object
`print.compare.fits`	Print Method for class "compare.fits"
`print.corStruct`	Print a corStruct Object
`print.gls`	Print a gls Object
`print.groupedData`	Print a groupedData Object
`print.intervals.gls`	Print an intervals.gls Object
`print.intervals.lme`	Print an intervals.lme Object
`print.lmList`	Print an lmList Object
`print.lme`	Print an lme Object
`print.modelStruct`	Print a modelStruct Object
`print.pdMat`	Print a pdMat Object
`print.reStruct`	Print an reStruct Object
`print.summary.corStruct`	Print a summary.corStruct Object

`print.summary.gls`	Print a summary.gls Object
`print.summary.lmList`	Print a summary.lmList Object
`print.summary.lme`	Print a summary.lme Object
`print.summary.modelStruct`	Print a summary.modelStruct Object
`print.summary.pdMat`	Print a summary.pdMat Object
`print.summary.varFunc`	Print a summary.varFunc Object
`print.varFunc`	Print a varFunc Object
`pruneLevels`	Prune Factor Levels
`qqnorm.gls`	Normal Plot of Residuals from a gls Object
`qqnorm.lme`	Normal Plot of Residuals or Random Effects from an lme Object
`random`	Include a Random Effects Term in an Additive Model
`random.effects`	Extract Random Effects
`random.effects.lmList`	Extract lmList Random Effects
`random.effects.lme`	Extract lme Random Effects
`ranef`	Extract Random Effects
`ranef.lmList`	Extract lmList Random Effects
`ranef.lme`	Extract lme Random Effects
`reStruct`	Random Effects Structure
`recalc`	Recalculate Condensed Linear Model Object
`recalc.corStruct`	Recalculate for corStruct Object
`recalc.modelStruct`	Recalculate for a modelStruct Object
`recalc.reStruct`	Recalculate for an reStruct Object
`recalc.varFunc`	Recalculate for varFunc Object
`resid`	Extract Coefficients, etc. from a Model
`residuals`	Extract Coefficients, etc. from a Model
`residuals.default`	Extract Coefficients, etc. from a Model
`residuals.gls`	Extract gls Residuals
`residuals.glsStruct`	Calculate glsStruct Residuals
`residuals.gnls`	Extract gnls Residuals
`residuals.gnlsStruct`	Calculate gnlsStruct Residuals
`residuals.lmList`	Extract lmList Residuals
`residuals.lme`	Extract lme Residuals
`residuals.lmeStruct`	Calculate lmeStruct Residuals
`residuals.nlmeStruct`	Calculate nlmeStruct Residuals
`rreg`	M-Estimates of Regression
`selfStart`	Construct Self-starting Nonlinear Models
`selfStart.default`	Construct Self-starting Nonlinear Models

`selfStart.formula`	Construct Self-starting Nonlinear Models
`simulate.lme`	simulate lme models
`solve.pdMat`	Calculate Inverse of a Positive-Definite Matrix
`solve.reStruct`	Apply Solve to an reStruct Object
`spectrum`	Estimate Spectrum of Time Series
`splitFormula`	Split a Formula
`step`	Build a Model in a Stepwise Fashion - Generic Function
`stepwise`	Stepwise Subset Selection for Multiple Regression
`summary.compare.fits`	Summary Method for class "compare.fits"
`summary.corStruct`	Summarize a corStruct Object
`summary.discrim`	The summary method for the discrim object.
`summary.gls`	Summarize a gls Object
`summary.lmList`	Summarize an lmList Object
`summary.lme`	Summarize an lme Object
`summary.modelStruct`	Summarize a modelStruct Object
`summary.nlsList`	Summarize an nlsList Object
`summary.pdMat`	Summarize a pdMat Object
`summary.varFunc`	Summarize varFunc Object
`tree`	Fit a Regression or Classification Tree
`update`	Update a Fitted Model Object
`update.default`	Update a Fitted Model Object
`update.formula`	Update a Fitted Model Object
`update.gls`	Update a gls Object
`update.gnls`	Update a gnls Object
`update.groupedData`	Update a groupedData Object
`update.lmList`	Update an lmList Object
`update.lme`	Update an lme Object
`update.modelStruct`	Update a modelStruct Object
`update.nlme`	Update an nlme Object
`update.nlsList`	Update an nlsList Object
`update.varFunc`	Update varFunc Object
`varClasses`	Variance Function Classes
`varComb`	Combination of Variance Functions
`varConstPower`	Constant Plus Power Variance Function
`varExp`	Exponential Variance Function
`varFixed`	Fixed Variance Function
`varFunc`	Variance Function Structure
`varIdent`	Constant Variance Function

varPower	Power Variance Function
varWeights	Extract Variance Function Weights
varWeights.glsStruct	Variance Weights for glsStruct Object
varWeights.lmeStruct	Variance Weights for lmeStruct Object
varcomp	Variance Components
wt.andrews	M-Estimates of Regression
wt.bisquare	M-Estimates of Regression
wt.cauchy	M-Estimates of Regression
wt.default	M-Estimates of Regression
wt.fair	M-Estimates of Regression
wt.hampel	M-Estimates of Regression
wt.huber	M-Estimates of Regression
wt.logistic	M-Estimates of Regression
wt.median	M-Estimates of Regression
wt.talworth	M-Estimates of Regression
wt.welsch	M-Estimates of Regression

Survival Analysis

Surv	Create a Survival Object
aareg	Aalen's Additive Regression Model for Censored Data
anova.censorReg	ANOVA Table for a class "censorReg" object
anova.censorReg.list	ANOVA Table for a multiple class "censorReg" objects
anova.censorRegList	ANOVA Table for a class "censorRegList" object
as.censor	Create an object of class "censor"
bladder	Sample Data Sets For Survival Analysis
capacitor	Sample Data Sets For Survival Analysis
censor	Create an object of class "censor"
censorReg	Regression Model for Censored Data
censorReg.check.code	Check truncation values
censorReg.control	Control values for routine censorReg
censorReg.distribution	Table of numbers for parametric survival distributions
censorReg.good.data	Checks for enough observations
censorReg.make.Y	Transform the response
censorReg.mlest	Compute MLE for Censored Regression Models
censorReg.object	Parametric Censored Regression Model Object
censorReg.quantiles	Quantiles for parametric survival distributions
censorReg.wfit	Weighted least squares fit in parametric survival models
cluster	Identify Clusters

`cox.zph`	Test the Proportional Hazards Assumption
`coxme`	Fit a Mixed-Effects Cox Model
`coxme.control`	Control Parameters for coxme
`coxph`	Fit Proportional Hazards Regression Model
`coxph.detail`	Details of a Cox Model Fit
`coxph.object`	Proportional Hazards Regression Object
`dsurvReg`	Distributions available in survReg .
`f.phibf`	Failure probabilities for parametric survival models
`f.phis`	Density for parametric survival distribution
`f.phisl`	Log density for parametric survival distribution
`formula.censorRegList`	Use formula() on a censorRegList object
`frailty`	Fit a Penalized Factor Variable
`frailty.gamma`	Random Effect Term for a Survival Model
`frailty.gaussian`	Random Effect Term for a Survival Model
`frailty.t`	Random Effect for a Survival Model
`heart`	Sample Data Sets For Survival Analysis
`is.Surv`	Create a Survival Object
`is.censor`	Create an object of class "censor"
`is.ratetable`	Verify that an object is of class ratetable .
`kaplanMeier`	Compute Nonparametric Survival Estimates
`kaplanMeier.fit`	Compute failure probability estimates
`leukemia`	Sample Data Sets For Survival Analysis
`lines.survfit`	Add Lines to a Survival Plot
`lung`	Sample Data Sets For Survival Analysis
`ovarian`	Sample Data Sets For Survival Analysis
`plot.aareg`	Plot an aareg Object
`plot.cox.zph`	Graphical Test of Proportional Hazards
`plot.survfit`	Plot Method for survfit
`predict.coxph`	Predictions from a coxph Object.
`predict.survReg`	Predicted Values for a survReg Object
`predict.survreg`	Predicted Values for a survreg Object
`print.aareg`	Print an aareg Object
`print.censorReg`	Prints a class "censorReg" object
`print.censorRegList`	Print "censorRegList" object
`print.summary.censorReg`	Use print() on a summary.censorReg object"
`print.survfit`	Print a Short Summary of a Survival Curve
`probplot`	Probability Plot - Generic Function
`probplot.censor`	Create Probability Plot for "censor" Object.

probplot.censorReg	Create A Probability Plot for a Parametric Survival Model
probplot6.censorReg	Comparative probability plots for parametric survival models
pspline	Fit a Smoothing Spline
psurvReg	Distributions available in survReg .
pyears	Person Years
qftdist	Quantiles for Parametric Survival/Censored Distributions
qftdist.dist	Compute parametric failure distribution distances
qkaplanMeier	Quantiles for Kaplan-Meier estimates
qqplot.censorReg.plot.quantile	Failure Distribution Plot
qqplot.censorReg.setup	Parametric Survival Probability Plot Setup
qsurvReg	Distributions available in survReg .
ratetable	Specify Variables to Match in Rate Table
residuals.censorReg	Compute Residuals for a Parametric Censored Regression Model
residuals.coxph	Calculate Residuals for a Cox Regression
residuals.survReg	Compute Residuals for survReg Objects
residuals.survreg	Compute Residuals for survreg Objects
strata	Identify Strata Variables
stressplot	Stress Plot - Generic Function
stressplot.censorReg	Stress plot for parametric survival distributions.
summary.aareg	Summarize an aareg Fit
summary.censorReg	Summary for censorReg object
summary.censorRegList	Summary for "censorRegList" object
summary.survReg	Summary for survReg Objects
summary.survfit	Summary of a Survival Curve
summary.survreg	Summary for survreg Objects
survReg	Regression for a Parametric Survival Model
survReg.object	Parametric Survival Model Object
survdiff	Test Survival Curve Differences
survexp	Compute Expected Survival
survexp.az	Census Data Sets for the Expected Survival and Person Years Functions
survexp.azr	Census Data Sets for the Expected Survival and Person Years Functions
survexp.fit	Compute Expected Survival
survexp.fl	Census Data Sets for the Expected Survival and Person Years Functions
survexp.flr	Census Data Sets for the Expected Survival and Person Years Functions

`survexp.mn`	Census Data Sets for the Expected Survival and Person Years Functions
`survexp.mnwhite`	Census Data Sets for the Expected Survival and Person Years Functions
`survexp.us`	Census Data Sets for the Expected Survival and Person Years Functions
`survexp.usr`	Census Data Sets for the Expected Survival and Person Years Functions
`survexp.uswhite`	Census Data Sets for the Expected Survival and Person Years Functions
`survfit`	Compute a Survival Curve for Censored Data
`survfit.object`	Survival Curve Object
`survival.datasets`	Sample Data Sets For Survival Analysis
`survreg.control`	Set Control Parameters for survreg
`survreg.object`	Parametric Survival Model Object
`tcut`	Create Categories From Time Based Data
`untangle.specials`	Process the specials Argument of the Terms Function

Time Series

`[.cts`	Subscript a Time Series Object
`[.its`	Subscript a Time Series Object
`[.rts`	Subscript a Time Series Object
`acf`	Estimate Autocovariance, Autocorrelation or Partial Autocorrelation
`acf.plot`	Plot Autocovariance or Autocorrelation
`acm.ave`	Two Filter Robust Smoother
`acm.filt`	Approximate Conditional Mean Robust Filter
`acm.smo`	Approximate Conditional Mean Robust Smoother
`aggregate`	Compute Summary Statistics of Subsets of Data
`aggregate.cts`	Decrease Periodicity of Time Series by Aggregation
`aggregate.default`	Compute Summary Statistics of Subsets of Data
`aggregate.rts`	Decrease Periodicity of Time Series by Aggregation
`aggregateSeries`	Time Series and Signal Aggregation
`align`	Time Series and Signal Interpolation and Alignment
`ar`	Fit Univariate or Multivariate Autoregressive Model
`ar.burg`	Fit Autoregression Using Burg's Algorithm
`ar.gm`	Fit Autoregression Using Robust GM-Estimates
`ar.yw`	Fit Autoregression Using the Yule-Walker Equations
`arima.diag`	Compute Diagnostics for ARIMA Model
`arima.diag.plot`	Plot Diagnostics for ARIMA Model

`arima.filt`	Apply an ARIMA Filter to a Time Series
`arima.forecast`	Forecast a Time Series Using an ARIMA Model
`arima.fracdiff`	Fractionally-Differenced ARIMA Modeling via Gaussian MLE
`arima.fracdiff.sim`	Simulate Long-memory Time-series Data
`arima.fracdiff.var`	Recompute Covariance Estimate for arima.fracdiff
`arima.mle`	ARIMA Modeling via Gaussian Maximum Likelihood
`arima.sim`	Simulate a Univariate ARIMA Series
`arima.td`	Coefficients for Trading Day Regression
`as.rts`	Regular Time Series Objects
`as.trellis.data.frame.series`	Internal Plotting Function
`as.trellis.data.frame.signal`	Internal Plotting Function
`as.ts`	Time Series Objects
`axis.compute.time.breaks`	Compute Market Open and Close Times for Axis Breaks
`axis.time`	Time Axis for Time Series Plot
`axis.time.breaks`	Internal Calculations for Time Series Plotting
`axis.time.build`	Compute Time Series Axis
`axis.time.grid`	Internal Calculations for Time Series Plotting
`axis.time.label.format`	Format Label for Time Axis
`axis.time.labels`	Internal Calculations for Time Series Plotting
`axis.time.scale`	Internal Calculations for Time Series Plotting
`axis.time.ticks`	Internal Calculations for Time Series Plotting
`bdSignalSeries`	Constructor Function For bdSignalSeries Objects
`bdTimeSeries`	Constructor Function for bdTimeSeries Class
`chb`	Constants for Huber and Bisquare Psi
`class.positions`	Virtual Classes for Time-Related Objects
`class.positionsCalendar`	Virtual Classes for Time-Related Objects
`class.positionsNumeric`	Virtual Classes for Time-Related Objects
`class.series`	Base Class for Time Series and Signals
`class.seriesVirtual`	Base Class for Time Series and Signals
`class.signalSeries`	signalSeries Class
`class.timeInterval`	Virtual Classes for Time-Related Objects
`class.timeSeries`	Calendar Time Series Class
`cts`	Regular Calendar Time Series Objects
`cycle`	Create Time Vector or Index of Frequency.
`deltat`	Sampling Frequency of a Time Series
`demod`	Complex Demodulation with Least Squares Lowpass Filter
`diff`	Create an Object of Differences

`end`	Starting and Ending Times for Time Series
`fft`	Fast Fourier Transform
`filter`	Apply a Filter to a Time Series
`frequency`	Sampling Frequency of a Time Series
`hloc`	High, Low, Open, and Close Calculation
`is.cts`	Regular Calendar Time Series Objects
`is.its`	Irregular Time Series Object
`is.rts`	Regular Time Series Objects
`is.ts`	Time Series Objects
`its`	Irregular Time Series Object
`lag`	Create a Lagged Time Series
`lag.plot`	Plot Lagged Scatter Plots
`monthplot`	Seasonal Subseries Plot
`nearby`	Futures Nearby Creation Function
`panel.hloc`	Trellis Panel Functions for Series Plotting
`panel.signalSeries`	Trellis Panel Functions for Series Plotting
`panel.stackbar`	Trellis Panel Functions for Series Plotting
`panel.timeSeries`	Trellis Panel Functions for Series Plotting
`peaks`	Find Local Maxima
`plot.bdSignalSeries`	Big-Data Signal Plot
`plot.bdTimeSeries`	Big-Data Calendar Time Series Plot
`plot.signalSeries`	Signal Plot
`plot.stl`	Plot an STL Object
`plot.timeSeries`	Calendar Time Series Plot
`plot.times`	Plot Method for Dates or Times Objects
`plotTimeDate`	Plot a timeDate Object
`positions`	Positions Of series Objects
`predict.arima`	Use predict() on a arima Class Object
`print.cts`	Print a Calendar Time Series
`print.its`	Print Method for Irregular Time Series
`print.rts`	Print Method for Regular Time Series
`print.ts`	Print a Time Series
`rts`	Regular Time Series Objects
`sabl`	Seasonal Decomposition
`sablplot`	Plot a Sabl Decomposition
`seriesData`	Access Data Of series Objects
`seriesMerge`	Merging for Time Series and Signals
`seriesValid`	Validation For series Objects

`shift`	Create a Shifted Time Series
`signalSeries`	Constructor Function For signalSeries Objects
`spec.ar`	Compute Autoregressive Spectrum
`spec.pgram`	Estimate Spectrum with Smoothed Periodogram
`spec.plot`	Plot Spectra
`spec.smo`	Perform Modified Daniell (Rectangular) Smoothing
`spec.taper`	Apply Split Cosine Bell Taper to a Time Series
`spectrum`	Estimate Spectrum of Time Series
`start`	Starting and Ending Times for Time Series
`stl`	Seasonal Decomposition of a Time Series
`stl.control`	Computational Options for STL
`summary.cts`	Summary Method for a Calendar Time Series
`summary.its`	Summary Method for an Irregularly Spaced Time Series
`summary.rts`	Summary Method for a Regular Time Series
`time`	Create Time Vector or Index of Frequency.
`timeSeries`	Constructor Function for timeSeries Class
`trellisPlot`	Trellis Plot of a Signal or Time Series
`trellisPlot.signalSeries`	Trellis Plot of a Signal
`trellisPlot.timeSeries`	Trellis Plot of a Time Series
`ts`	Time Series Objects
`ts.intersect`	Intersection of Time Series
`ts.lines`	Plot Multiple Time Series
`ts.plot`	Plot Multiple Time Series
`ts.points`	Plot Multiple Time Series
`ts.union`	Union of Time Series
`ts.update`	Update Old ts Objects
`tslines`	Plot Multiple Time Series
`tsmatrix`	Create Matrix with Time Series as Columns
`tsp`	Tsp Attribute of a Time Series Object
`tspar`	Time Parameters of a Time Series Object
`tsplot`	Plot Multiple Time Series
`tspoints`	Plot Multiple Time Series
`unionPositions`	Positions Object Union With Tolerance
`units`	Time Units of a Time Series
`window`	Window a Time Series

Trellis Displays

`as.shingle`	Create a Shingle Object

`banking`	Aspect Ratio Computations for Banking
`barchart`	Bar Graph
`bwplot`	Box and Whisker Plot (Box Plot)
`bwps.trellis`	Device Colormaps for Trellis Graphics
`cloud`	3-D Point Cloud
`color.key`	Put a Color Key on a Plot
`colorps.trellis`	Device Colormaps for Trellis Graphics
`contourplot`	Produce a Contour Plot or Level Plot
`densityplot`	Probability Density Plots
`dotplot`	Multi-way Dot Plot
`equal.count`	Create Shingle of Conditioning Intervals
`example.bwplot`	Example Functions For Trellis Displays
`example.calendar`	Example Functions For Trellis Displays
`example.cloud`	Example Functions For Trellis Displays
`example.contour`	Example Functions For Trellis Displays
`example.coplot.fit`	Example Functions For Trellis Displays
`example.coplot.one`	Example Functions For Trellis Displays
`example.coplot.three`	Example Functions For Trellis Displays
`example.coplot.two`	Example Functions For Trellis Displays
`example.coplot2.fit`	Example Functions For Trellis Displays
`example.density`	Example Functions For Trellis Displays
`example.difscale`	Example Functions For Trellis Displays
`example.dotplot`	Example Functions For Trellis Displays
`example.draping`	Example Functions For Trellis Displays
`example.draping2`	Example Functions For Trellis Displays
`example.ecount`	Example Functions For Trellis Displays
`example.frames2`	Example Functions For Trellis Displays
`example.given`	Example Functions For Trellis Displays
`example.histo`	Example Functions For Trellis Displays
`example.level`	Example Functions For Trellis Displays
`example.level.fit`	Example Functions For Trellis Displays
`example.levelplot`	Example Functions For Trellis Displays
`example.normal.qq`	Example Functions For Trellis Displays
`example.oneway`	Example Functions For Trellis Displays
`example.overplot`	Example Functions For Trellis Displays
`example.pages`	Example Functions For Trellis Displays
`example.parallel`	Example Functions For Trellis Displays
`example.qqplot`	Example Functions For Trellis Displays

`example.qqpool`	Example Functions For Trellis Displays
`example.quantile`	Example Functions For Trellis Displays
`example.reorder`	Example Functions For Trellis Displays
`example.rfs`	Example Functions For Trellis Displays
`example.robust`	Example Functions For Trellis Displays
`example.shingle`	Example Functions For Trellis Displays
`example.sl`	Example Functions For Trellis Displays
`example.slice.box`	Example Functions For Trellis Displays
`example.smooth`	Example Functions For Trellis Displays
`example.splom`	Example Functions For Trellis Displays
`example.splom2`	Example Functions For Trellis Displays
`example.splom3`	Example Functions For Trellis Displays
`example.strip`	Example Functions For Trellis Displays
`example.tmd`	Example Functions For Trellis Displays
`example.units.cm`	Example Functions For Trellis Displays
`example.wire`	Example Functions For Trellis Displays
`example.wire2`	Example Functions For Trellis Displays
`histogram`	Histogram of a Distribution
`identify.xyplot`	Identify Points on Trellis Xyplot
`iris.trellis`	Device Colormaps for Trellis Graphics
`is.shingle`	Create a Shingle Object
`levelplot`	Produce a Contour Plot or Level Plot
`locator.2dtrellis`	Get Coordinates from Trellis Plot
`panel.abline`	Add Lines to a Panel
`panel.barchart`	Panel Function for Barcharts
`panel.bwplot`	Panel Function for Box and Whisker Plots (Box Plots)
`panel.cloud`	Panel Function for 3D Point Cloud
`panel.contourplot`	Panel Function for Contour Plots and Level Plots
`panel.densityplot`	Panel Function for Density Plots
`panel.dotplot`	Panel Function for Dotplots
`panel.fill`	Fill in a Panel
`panel.grid`	Add Reference Grid to Panels
`panel.hexbin`	Panel Function for Hexbins
`panel.hexbin.lmline`	Panel Function for Hexbins
`panel.hexbin.loess`	Panel Function for Hexbins
`panel.hexbin.smooth.spline`	Panel Function for Hexbins
`panel.histogram`	Panel Function for Histograms
`panel.hloc`	Trellis Panel Functions for Series Plotting

`panel.levelplot`	Panel Function for Contour Plots and Level Plots
`panel.lmline`	Add Linear Regression Line to Panel
`panel.loess`	Add Smooth Loess Curve to Panel
`panel.parallel`	Panel Function for Parallel Coordinates Plots
`panel.piechart`	Panel Function for Pie Charts
`panel.plot.shingle`	Panel Function for plot.shingle
`panel.qq`	Panel Function for Scatterplots
`panel.qqmath`	Panel Function for Scatterplots
`panel.qqmathline`	Fit Line to QQ-Plot in Panel
`panel.signalSeries`	Trellis Panel Functions for Series Plotting
`panel.splom`	Panel Function for Scatterplots
`panel.stackbar`	Trellis Panel Functions for Series Plotting
`panel.stripplot`	Panel Function for 1-D Strip Plot
`panel.superpose`	Panel Function for Superposition
`panel.timeSeries`	Trellis Panel Functions for Series Plotting
`panel.tmd`	Panel Function for Tukey Mean-Difference Displays
`panel.wireframe`	Panel Function for Wireframe Surface
`panel.xyplot`	Panel Function for Scatterplots
`parallel`	Parallel Coordinate Plots
`piechart`	Pie Charts
`plot.shingle`	Plot Method for Shingles
`prepanel.lmline`	Preliminary Computations to Add Linear Regression Line
`prepanel.loess`	Preliminary Computations to Add Smooth Loess Curve
`prepanel.qqmathline`	Preliminary Computations to Fit Line to QQ-Plot
`print.trellis`	Plot (!) a Trellis Object
`qq`	Quantile-Quantile Plots for Comparing Multiple Distributions
`qqmath`	Q-Q Plot Using a Theoretical or Empirical Distribution
`reorder.factor`	Reorder the Levels of a Factor
`rfs`	Residual and Fit Spread Plots
`shingle`	Create a Shingle Object
`show.settings`	Show the Trellis Customization Settings
`splom`	Multi-Panel Scatterplot Matrices
`strip.default`	Generate Strip Labels
`stripplot`	One-Dimensional Scatter Plot
`tmd`	Tukey Mean-Difference Plot
`trellis.device`	Starts Display Device For Trellis Functions
`trellis.examples`	Example Functions For Trellis Displays

`trellis.par.get`	Get and Set Trellis Parameters
`trellis.par.set`	Get and Set Trellis Parameters
`trellis.settings`	Device Customization Settings For Trellis Displays
`trellis.settings.bw`	Device Customization Settings For Trellis Displays
`trellis.settings.bwps`	Device Customization Settings For Trellis Displays
`trellis.settings.color`	Device Customization Settings For Trellis Displays
`trellis.settings.colorps`	Device Customization Settings For Trellis Displays
`trellis.settings.motif`	Device Customization Settings For Trellis Displays
`trellis.settings.winbwps`	Device Customization Settings For Trellis Displays
`trellis.settings.wincolorps`	Device Customization Settings For Trellis Displays
`trellis.settings.wingraph`	Device Customization Settings For Trellis Displays
`trellis.settings.winpcl`	Device Customization Settings For Trellis Displays
`trellisPlot`	Trellis Plot of a Signal or Time Series
`trellisPlot.signalSeries`	Trellis Plot of a Signal
`trellisPlot.timeSeries`	Trellis Plot of a Time Series
`wireframe`	3-D Wireframe Surface
`xyplot`	Conditioning Plots/Scatter Plots

Utilities

`BATCH`	Batch (Non-Interactive) Execution of Spotfire S+
`BUILD_JHELP`	Create JavaHelp Help Set for Installed Help Files
`CHAPTER`	Initialize a Spotfire S+ Chapter and Create a Makefile for User Code
`CONVERTOLDSCRIPTS`	Convert SV3 Function Files to SV4
`CSH`	Start a subshell with the environment of Spotfire S+.
`Command.edit`	Command Line Editing in Spotfire S+
`EXEC`	Execute a Program
`HINSTALL`	Install Spotfire S+ Help Files
`LICENSE`	Manage network licensing for Spotfire S+
`MODINSTALL`	Install Add-On Moddule
`NM`	Display Symbol Table of Compiled Code
`TRUNC_AUDIT`	Truncate the Audit File
`bd.cache.cleanup`	Analyze BDO Cache Files
`bd.cache.info`	Analyze BDO Cache Files
`convertOldDoc`	Convert Nroff/Troff Style Help to SGML
`convertOldLibrary`	Convert Spotfire S+ 4.x and Earlier Objects to Spotfire S+ Version 5.x/6.x
`doc_to_S`	Convert Nroff/Troff Style Help to SGML
`masked`	Report Masked Spotfire S+ Objects

`strwrap`	Wraps Character Strings for Paragraph Formatting
`validate`	Validation Tests