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to provide commercial support and/or extensions to their customers. This section gives some examples of these companies. In 2007, Richard Schultz, Martin Schultz, Steve Weston and Kirk Mettler founded Revolution Analytics to provide commercial support for Revolution R, its R distribution, which also includes components developed by the company. Additional key components include: ParallelR, the R Productivity Environment IDE, RevoScaleR (for big data analytics), RevoDeployR, web services framework, and the ability to read and write data in the SAS file format. [95] Revolution Analytics also offers an R distribution designed to meet established IQ/OQ/PQ criteria that allow pharmaceutical customers to validate their REvolution R installation.[96] In Microsoft Corporation has completed the acquisition of Revolution Analytics. [97] and has since integrated the R programming language into SQL Server 2016, SQL Server 2017, Power BI, Azure SQL Database, Azure Cortana Intelligence, Microsoft R Server, and Visual Studio 2017. In October 2011, Oracle announced the Big Data Appliance, which integrates R, Apache Hadoop, Oracle Linux, and a NoSQL database with Exadata hardware. [100] As of 2012, Oracle R Enterprise[100] became one of two components of oracle advanced analytics option[101] (alongside Oracle Data Mining). [citation required] IBM supports in-Hadoop execution of R, [102] and provides a programming model for massively parallel analyses in the database in R.[103] Tibco offers a runtime version R as part of Spotfire. [104] Mango Solutions offers a validation package for R, ValidR.[105][106] to make it compatible with drug approval agencies such as the FDA. These agencies allow the use of any statistical software in submissions, if only the software is validated, either by the vendor itself or by the sponsor himself. [107] Basic syntax examples The following examples illustrate the basic syntax of the language and the use of the command-line interface. In R, the generally preferred assignment operator [108] is an arrow made of two characters <-, although = can usually be used instead. [109] >; x <- 1:6 # Create vector. >; y <- x^2 # Create vector by formula. >; print(y) # Print the contents of the vector. [1] 1 4 9 16 25 36 >; average(y) # Arithmetic mean vector. [1] 15.16667 >; var(y) # Vector sample variation. [1] 178.9667 >; model <- lm(y~x) # Linear regression model y = A + B * x. >; print(model) # Print model results. Call: lm(formula = y ~ x) Coefficients: (Intercept) x -9.3333 7.0000 >; summary(model) # Display an in-depth summary of the model. Call: lm(formula = y ~ x) Waste: 1 2 3 4 5 6 3.3333 -0.6667 -2.6667 -2.6667 3.3333 Coefficients: Std Estimate. Error t Value Pr (>|t|) (Intercept) -9.3333 2.8441 -3.282 0.030453 * x 7.0000 0.7303 9.585 0.000662 *** ---. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 ' ' Residual standard error: 3.055 in 4 degrees of multiple R-square freedom: 0.9583, Adjusted R-square: 0.9478 F-statistic: 91.88 in 1 and 4 DF, p-value: 0.000662 >; pair(mfrow = c(2, 2)) # Create a 2-by-2 layout for values. >; plot(model) # Model output diagnostic graphics. Structure of a function One of the strengths of R is the ease of creating new functions. The objects in the function body remain local to the function, and any data type can be returned. [110] Here is a user-created function: # Declare function f with parameters x, y that returns a linear combination of x and y, f <- function(x, y) { z <- 3 * x + 4 * y return(z) } >; f(1, 2) [1] [1] 11 >; c(5,3,4) [1] 23 18 25 >; f(1:3, 4) [1] 19 22 25 Mandelbrot set code Short R calculating Mandelbrot defined through the first 20 iterations of equation z = z^2 + c plotted for different complex constants c.c. example demonstrates: use of community-developed external libraries (called packages), in this case caTools package handling of complex numbers multidimensional arrays of numbers used as basic data type, see variables C, Z and X. install.packages(caTools) # install external package library(caTools) # external package providing write gif function jet.colors <- colorRampPalette(c(red, blue, #00FFFF, cyan, #7FFF7F, yellow, #FFFF00, red, #FF0000)) dx <- 1500 # define width dy <- 1400 # define height C<- complex(real= rep(-2,2, 1,0, length.out = dx), each = dy), imag = rep(-1,2, 1,2, length.out = dy), dx)) C<- matrix #reshape as square matrix of complex numbers Z<- 0 # initialize Z to zero X <- array(0, c(dy, dx, 20)) # initialize output 3D array for (k in 1:20) { # loop with 20 iterations Z <- Z^2 + C # the central difference equation X[, k] <- exp(-abs(Z)) # capture results } write.gif(X, Mandelbrot.gif, col = jet.colors, delay = 100) See also Comparison of numerical analysis software Comparison of statistical packages List numerical analysis software List statistical software RStudio Statcheck Notes Tidy ^ From 2020-06-13, Metacran listed 7 of tidyverse's 8 main packages in the list of more download packages R. 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