NAME

R − a language for data analysis and graphics

SYNOPSIS

R [*options*] [< *infile*] [> *outfile*]
R *CMD command* [*arguments*]

DESCRIPTION

Start R, a system for statistical computation and graphics, with the specified options, or invoke an R tool via the 'R CMD' interface.

R is a language which bears a passing resemblance to the S language developed at AT&T Bell Laboratories. It provides support for a variety of statistical and graphical analyses. R is a true computer language which contains a number of control-flow constructions for iteration and alternation. It allows users to add additional functionality by defining new functions.

On systems which have the GNU **readline**(3) library, R will maintain a command history, so that commands can be recalled, edited and re-executed.

OPTIONS

Most options control what happens at the beginning and at the end of an R session, in particular which files are being read and written, and how much memory is reserved for the R process.

−h, **−−help**
Print short help message and exit

−−version
Print version info and exit

−−encoding=*ENC*
Specify encoding to be used for stdin

−−encoding ENC

RHOME
Print path to R home directory and exit

−−save Do save workspace at the end of the session

−−no−save
Don't save it

−−no−environ
Don't read the site and user environment files

−−no−site−file
Don't read the site-wide Rprofile

−−no−init−file
Don't read the user R profile

−−restore
Do restore previously saved objects at startup

−−no−restore−data
Don't restore previously saved objects

−−no−restore−history
Don't restore the R history file

−−no−restore
Don't restore anything

−−vanilla
Combine **−−no−save**, **−−no−restore**, **−−no−site−file**, **−−no−init−file** and **−−no−environ**

−−no−readline
Don't use readline for command-line editing

−−max−ppsize=*N*
Set max size of protect stack to N

−−min−nsize=*N*
Set min number of fixed size obj's ("cons cells") to N

−−min−vsize=*N*
Set vector heap minimum to N bytes; '4M' = 4 MegaB

−q, **−−quiet**
Don't print startup message

−−silent
Same as **−−quiet**

−s, **−−no−echo**
Make R run as quietly as possible

−−interactive
Force an interactive session

−−verbose
Print more information about progress

−d, **−−debugger**=*NAME*
Run R through debugger NAME

−−debugger−args=*ARGS*
Pass ARGS as arguments to the debugger

−g TYPE, **−−gui**=*TYPE*
Use TYPE as GUI; possible values are 'X11' (default) and 'Tk'.

−−arch=*NAME*
Specify a sub-architecture

−−args Skip the rest of the command line

−f FILE, **−−file**=*FILE*
Take input from 'FILE'

−e EXPR
Execute 'EXPR' and exit

FILE may contain spaces but not shell metacharacters.

Commands:

BATCH
Run R in batch mode

COMPILE
Compile files for use with R

SHLIB Build shared library for dynamic loading

INSTALL
Install add-on packages

REMOVE
Remove add-on packages

build Build add-on packages

check Check add-on packages

LINK Front-end for creating executable programs

Rprof Post-process R profiling files

Rdconv Convert Rd format to various other formats

Rd2pdf Convert Rd format to PDF

Rd2txt Convert Rd format to pretty text

Stangle Extract S/R code from Sweave documentation

Sweave Process Sweave documentation

Rdiff Diff R output ignoring headers etc

config Obtain configuration information about R

javareconf
Update the Java configuration variables

rtags Create Emacs-style tag files from C, R, and Rd files

Please use 'R CMD command **−−help**' to obtain further information about the usage of 'command'.

Options **−−arch**, **−−no−environ**, **−−no−init−file**, **−−no−site−file** and **−−vanilla** can be placed between R and CMD, to apply to R processes run by 'command'

REPORTING BUGS

Report bugs at <https://bugs.R-project.org>.

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SEE ALSO

The full documentation for R is provided by a collection of Texinfo manuals and individual help for R objects which is also available on-line.

Start R and type **?***topic* at the R prompt to obtain on-line information for '*topic*'.

If the processed manuals have been installed they will be available as DVI and/or PDF files in the doc/manual subdirectory of the documentation directory tree (default 'R RHOME').

If the **info** program and the R manuals are installed on your system, typing **info -f R-intro**, **info -f R-data**, **info -f R-exts**, **info -f R-FAQ**, **info -f R-lang** and **info -f R-ints** should give you access to "An Introduction to R" (the basic manual), the "R Data Import/Export" Guide, the "R Extension Writer's Guide", the "R FAQ", the "The R Language Definition", and the "R Internals".