Session Info

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Session

```
sessionInfo()
#> R version 4.5.1 (2025-06-13)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 24.04.2 LTS
#>
#> Matrix products: default
          / usr/lib/x86\_64-linux-gnu/openblas-pthread/libblas.so.3
#> LAPACK: /usr/lib/x86_64-linux-gnu/openblas-pthread/libopenblasp-r0.3.26.so; LAPACK version 3.12
#>
#> locale:
#> [1] LC_CTYPE=en_US.UTF-8
                             LC_NUMERIC=C
   [3] LC_TIME=en_US.UTF-8
                              LC_COLLATE=en_US.UTF-8
#> [5] LC_MONETARY=en_US.UTF-8 LC_MESSAGES=en_US.UTF-8
   [7] LC_PAPER=en_US.UTF-8
                                LC_NAME=C
  [9] LC_ADDRESS=C
                                  LC_TELEPHONE=C
#> [11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
#>
#> time zone: Etc/UTC
```

```
#> tzcode source: system (glibc)
#> attached base packages:
#> [1] stats
               graphics grDevices utils datasets methods
                                                               base
#> other attached packages:
#> [1] rProject_0.0.21
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.5.0 R6_2.6.1
                                       lubridate_1.9.4 xfun_0.52
#> [5] magrittr_2.0.3 glue_1.8.0
                                       stringr_1.5.1 knitr_1.50
#> [9] timechange_0.3.0 generics_0.1.4
                                       lifecycle_1.0.4 xml2_1.3.8
#> [13] cli_3.6.5.9000 bibtex_0.5.1
                                       compiler_4.5.1 highr_0.11
#> [17] rprojroot_2.1.0 plyr_1.8.9
                                       httr_1.4.7
                                                       tools_4.5.1
#> [21] evaluate_1.0.4 Rcpp_1.1.0
                                       RefManageR_1.4.0 rlang_1.1.6
#> [25] jsonlite_2.0.0 stringi_1.8.7
```

Packages

```
unname(installed.packages()[, 1])
     [1] "betaMC"
                              "abind"
                                                   "Amelia"
#>
    [4] "arm"
                              "arrow"
                                                   "ash"
     [7] "askpass"
                              "assertthat"
                                                   "backports"
#>
    [10] "base64enc"
                                                   "betaMC"
                              "betaDelta"
    [13] "betaNB"
                              "betaSandwich"
                                                   "BH"
    [16] "bibtex"
                              "BiocManager"
                                                   "bit"
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	ш.	[10]	h : + C /	II h i + a m a II	
1	#>		"bit64"	"bitops"	"blob"
1	# >	[22]	"bootStateSpace"	"brew"	"brio"
1	#>	[25]	"broom"	"bslib"	"cachem"
i	#>	[28]	"callr"	"car"	"caracas"
1	#>	[31]	"carData"	"cellranger"	"cffr"
1	#>	[34]	"checkmate"	"cli"	"clipr"
1	#>	[37]	"clock"	"clusterGeneration"	"coda"
7	# >	[40]	"cOde"	"collections"	"colorspace"
7	#>	[43]	"commonmark"	"conflicted"	"corpcor"
7	# >	[46]	"covr"	"cowplot"	"cpp11"
7	#>	[49]	"crayon"	"credentials"	"crosstalk"
7	# >	[52]	"cTMed"	"ctsem"	"curl"
7	# >	[55]	"data.table"	"DBI"	"dbplyr"
7	# >	[58]	"Deriv"	"desc"	"deSolve"
7	#>	[61]	"devtools"	"diagram"	"dials"
7	#>	[64]	"DiceDesign"	"diffobj"	"digest"
7	# >	[67]	"distributional"	"distro"	"doBy"
7	# >	[70]	"docopt"	"doFuture"	"downlit"
i	#>	[73]	"dplyr"	"DT"	"dtplyr"
7	#>	[76]	"duckdb"	"dynr"	"dynUtils"
7	#>	[79]	"ellipse"	"ellipsis"	"evaluate"
7	# >	[82]	"expm"	"fansi"	"farver"
7	#>	[85]	"fastDummies"	"fastmap"	"fclust"
7	#>	[88]	"fda"	"fdrtool"	"fds"
7	#>	[91]	"fitDTVARMx"	"FNN"	"fontawesome"
1	#>	[94]	"forcats"	"foreach"	"Formula"
1	#>	[97]	"fs"	"fst"	"fstcore"

#> [100] "furrr"	"future"	"future.apply"
#> [103] "gargle"	"generics"	"gert"
#> [106] "ggplot2"	"ggrepel"	"gh"
#> [109] "gitcreds"	"glasso"	"glmnet"
#> [112] "globals"	"glue"	"googledrive"
#> [115] "googleshe	ets4" "gower"	"GPArotation"
#> [118] "GPfit"	"graphicalVAR"	" "gridExtra"
#> [121] "gsubfn"	"gtable"	"gtools"
#> [124] "hardhat"	"haven"	"hdrcde"
#> [127] "here"	"highr"	"Hmisc"
#> [130] "hms"	"htmlTable"	"htmltools"
#> [133] "htmlwidge	ts" "httpuv"	"httr"
#> [136] "httr2"	"ids"	"ifaTools"
#> [139] "igraph"	"infer"	"ini"
#> [142] "inline"	"ipred"	"isoband"
#> [145] "iterators	"jomo"	"jpeg"
#> [148] "jquerylib	" "jsonlite"	"jsonvalidate"
#> [151] "kernlab"	"knitr"	"ks"
#> [154] "labeling"	"Lahman"	"languageserver"
#> [157] "later"	"latex2exp"	"lava"
#> [160] "lavaan"	"lazyeval"	"lhs"
#> [163] "lifecycle	"lintr"	"listenv"
#> [166] "litedown"	"littler"	"lme4"
#> [169] "locfit"	"longMI"	"loo"
#> [172] "lubridate	" magick"	"magrittr"
#> [175] "markdown"	"MatrixModels"	" "matrixStats"
#> [178] "mclust"	"memoise"	"metaSEM"

#>	[181]	"metaVAR"	"mice"	"microbenchmark"
#>	[184]	"mime"	"miniUI"	"minqa"
#>	[187]	"mitml"	"mize"	"mlVAR"
#>	[190]	"mnormt"	"modeldata"	"modelenv"
#>	[193]	"modelr"	"MplusAutomation"	"multicool"
#>	[196]	"mvtnorm"	"nloptr"	"numDeriv"
#>	[199]	"nycflights13"	"OpenMx"	"openssl"
#>	[202]	"ordinal"	"pan"	"pander"
#>	[205]	"parallelly"	"parsnip"	"patchwork"
#>	[208]	"pbapply"	"pbivnorm"	"pbkrtest"
#>	[211]	"pcaPP"	"pdftools"	"pillar"
#>	[214]	"pkgbuild"	"pkgconfig"	"pkgdown"
#>	[217]	"pkgload"	"plogr"	"plyr"
#>	[220]	"png"	"posterior"	"pracma"
#>	[223]	"praise"	"prettyunits"	"printr"
#>	[226]	"processx"	"prodlim"	"profvis"
#>	[229]	"progress"	"progressr"	"promises"
#>	[232]	"proto"	"ps"	"psych"
#>	[235]	"purrr"	"qgraph"	"qpdf"
#>	[238]	"quadprog"	"quantreg"	"quarto"
#>	[241]	"QuickJSR"	"R.cache"	"R.methodsS3"
#>	[244]	"R.00"	"R.utils"	"R6"
#>	[247]	"ragg"	"rainbow"	"rappdirs"
#>	[250]	"rbibutils"	"rcmdcheck"	"RColorBrewer"
#>	[253]	"Rcpp"	"RcppArmadillo"	"RcppEigen"
#>	[256]	"RcppGSL"	"RcppParallel"	"RcppTOML"
#>	[259]	"RCurl"	"Rdpack"	"readr"

#> [262] "readx1"	"recipes"	"RefManageR"
#> [265] "reformulas"	"rematch"	"rematch2"
#> [268] "remotes"	"reprex"	"reshape2"
#> [271] "reticulate"	"rex"	"rhub"
#> [274] "rjags"	"rlang"	"RMariaDB"
#> [277] "rmarkdown"	"roxygen2"	"rpf"
#> [280] "RPostgres"	"rProject"	"rprojroot"
#> [283] "rsample"	"RSQLite"	"rstan"
#> [286] "rstantools"	"rstudioapi"	"rversions"
#> [289] "rvest"	"Ryacas"	"sass"
#> [292] "scales"	"selectr"	"semlbci"
#> [295] "semmcci"	"sessioninfo"	"sfd"
#> [298] "shape"	"shiny"	"simStateSpace"
#> [301] "slider"	"snow"	"snowfall"
<pre>#> [304] "sourcetools"</pre>	"SparseM"	"sparsevctrs"
#> [307] "SQUAREM"	"StanHeaders"	"stringi"
#> [310] "stringr"	"styler"	"symSEM"
#> [313] "sys"	"systemfonts"	"tensorA"
#> [316] "testthat"	"texreg"	"textshaping"
#> [319] "tibble"	"tidymodels"	"tidyr"
#> [322] "tidyselect"	"tidyverse"	"timechange"
#> [325] "timeDate"	"tinytex"	"tune"
#> [328] "tzdb"	"ucminf"	"urlchecker"
#> [331] "usethis"	"utf8"	"uuid"
#> [334] "V8"	"vctrs"	"viridis"
#> [337] "viridisLite"	"vroom"	"waldo"
#> [340] "warp"	"whisker"	"whoami"

#>	[343] "w	withr"	"workflows"	"workflowsets"
#>	[346] "x	xfun"	"xm12"	"xmlparsedata"
#>	[349] "x	kopen"	"xtable"	"yaml"
#>	[352] "y	yardstick"	"zip"	"base"
#>	[355] "b	ooot"	"class"	"cluster"
#>	[358] "c	codetools"	"compiler"	"datasets"
#>	[361] "f	foreign"	"graphics"	"grDevices"
#>	[364] "g	grid"	"KernSmooth"	"lattice"
#>	[367] "M	MASS"	"Matrix"	"methods"
#>	[370] "m	ngcv"	"nlme"	"nnet"
#>	[373] "p	parallel"	"rpart"	"spatial"
#>	[376] "s	splines"	"stats"	"stats4"
#>	[379] "s	survival"	"tcltk"	"tools"
#>	[382] "u	ıtils"		

References

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