

# Session Info

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## Session

```
sessionInfo()
```

```
#> R version 4.4.1 (2024-06-14)
#> Platform: x86_64-pc-linux-gnu
#> Running under: Ubuntu 22.04.4 LTS
#>
#> Matrix products: default
#> BLAS: /usr/lib/x86_64-linux-gnu/openblas-pthread/libblas.so.3
#> LAPACK: /usr/lib/x86_64-linux-gnu/openblas-pthread/libopenblas-p-r0.3.20.so; LAPACK version 3.10.3
#>
#> 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_0.0.14
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1        lubridate_1.9.3  xfun_0.47
#>  [5] magrittr_2.0.3   glue_1.7.0      stringr_1.5.1    knitr_1.48
#>  [9] timechange_0.3.0 generics_0.1.3   lifecycle_1.0.4  xml2_1.3.6
#> [13] cli_3.6.3.9000  bibtex_0.5.1    compiler_4.4.1   highr_0.11
#> [17] rprojroot_2.0.4  plyr_1.8.9      httr_1.4.7       tools_4.4.1
#> [21] evaluate_0.24.0  Rcpp_1.0.13     RefManageR_1.4.0 rlang_1.1.4
```

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#> [25] jsonlite_1.8.8   stringi_1.8.4
```

## Packages

```
unnname(installed.packages()[, 1])
```

```
#> [1] "fitDTVARmX"      "abind"           "arm"
#> [4] "arrow"           "ash"             "AsioHeaders"
#> [7] "askpass"         "assertthat"      "backports"
#> [10] "base64enc"       "betaDelta"       "betaMC"
#> [13] "betaNB"          "betaSandwich"    "BH"
#> [16] "bibtex"          "BiocManager"     "bit"
#> [19] "bit64"           "bitops"          "blob"
#> [22] "brew"            "brio"            "broom"
#> [25] "bslib"           "cachem"          "callr"
#> [28] "car"             "caracas"         "carData"
#> [31] "cellranger"      "cfrfr"           "checkmate"
#> [34] "cli"             "clipr"           "clock"
#> [37] "clusterGeneration" "coda"           "c0de"
#> [40] "collections"     "colorspace"      "commonmark"
#> [43] "conflicted"      "corpcor"         "covr"
#> [46] "cowplot"         "cpp11"           "crayon"
#> [49] "credentials"     "crosstalk"       "cTMed"
#> [52] "ctsem"           "curl"            "cyclocomp"
#> [55] "data.table"      "DBI"             "dbplyr"
#> [58] "Deriv"           "desc"            "deSolve"
#> [61] "devtools"        "diagram"         "dials"
#> [64] "DiceDesign"      "diffobj"         "digest"
#> [67] "distributional"  "distribro"       "doBy"
#> [70] "docopt"          "doFuture"        "downlit"
#> [73] "dplyr"           "DT"              "dtplyr"
#> [76] "duckdb"          "dynr"            "dynUtils"
#> [79] "ellipse"         "ellipsis"        "evaluate"
#> [82] "expm"            "fans"            "farver"
#> [85] "fastDummies"     "fastmap"         "fclust"
#> [88] "fda"             "fdrtool"         "fds"
#> [91] "fitCTVARmX"      "fitDTVARmX"      "FNN"
#> [94] "fontawesome"     "forcats"         "foreach"
#> [97] "Formula"         "fs"              "fst"
#> [100] "fstcore"         "furry"           "future"
#> [103] "future.apply"    "gargle"           "generics"
#> [106] "gert"            "ggplot2"         "ggrepel"
#> [109] "gh"              "gitcreds"        "glasso"
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#> [112] "glmnet"           "globals"          "glue"
#> [115] "googledrive"      "googlesheets4"    "gower"
#> [118] "GPArotation"      "GPfit"             "graphicalVAR"
#> [121] "gridExtra"        "gsubfn"            "gtable"
#> [124] "gtools"           "hardhat"           "haven"
#> [127] "hdrcde"           "here"              "highr"
#> [130] "Hmisc"            "hms"               "htmlTable"
#> [133] "htmltools"        "htmlwidgets"       "httpgd"
#> [136] "httpuv"           "httr"              "httr2"
#> [139] "ids"              "ifaTools"          "igraph"
#> [142] "infer"            "ini"               "inline"
#> [145] "ipred"            "isoband"           "iterators"
#> [148] "jomo"             "jpeg"              "jquerylib"
#> [151] "jsonlite"         "jsonvalidate"      "kernlab"
#> [154] "knitr"            "ks"                "labeling"
#> [157] "Lahman"           "languageserver"    "later"
#> [160] "latex2exp"        "lava"              "lavaan"
#> [163] "lazeval"          "lhs"               "lifecycle"
#> [166] "lintr"            "listenv"           "littler"
#> [169] "lme4"             "locfit"            "longMI"
#> [172] "loo"              "lubridate"         "magick"
#> [175] "magrittr"         "markdown"          "MatrixModels"
#> [178] "matrixStats"      "mclust"             "memoise"
#> [181] "metaSEM"          "metaVAR"           "mice"
#> [184] "microbenchmark"  "mime"              "miniUI"
#> [187] "minqa"            "mitml"             "mize"
#> [190] "mlVAR"            "mnormt"            "modeldata"
#> [193] "modelenv"         "modelr"            "MplusAutomation"
#> [196] "multicool"        "munsell"           "mvtnorm"
#> [199] "nloptr"           "numDeriv"          "nycflights13"
#> [202] "OpenMx"           "openssl"           "ordinal"
#> [205] "pan"              "pander"            "parallelly"
#> [208] "parsnip"          "patchwork"         "pbapply"
#> [211] "pbivnorm"         "pbkrtest"          "pcaPP"
#> [214] "pdftools"         "pillar"            "pkgbuild"
#> [217] "pkgconfig"        "pkgdown"           "pkgload"
#> [220] "plogr"            "plyr"              "png"
#> [223] "posterior"        "pracma"            "praise"
#> [226] "prettyunits"      "printr"            "processx"
#> [229] "prodlim"          "profvis"           "progress"
#> [232] "progressr"        "promises"          "proto"
#> [235] "ps"               "psych"             "purrr"
#> [238] "qgraph"           "qpdf"              "quadprog"
#> [241] "quantreg"         "quarto"            "QuickJSR"
#> [244] "R.cache"          "R.methodsS3"       "R.oo"

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#> [247]	"R.utils"	"R6"	"ragg"
#> [250]	"rainbow"	"rappdirs"	"rbibutils"
#> [253]	"rcmdcheck"	"RColorBrewer"	"Rcpp"
#> [256]	"RcppArmadillo"	"RcppEigen"	"RcppGSL"
#> [259]	"RcppParallel"	"RcppTOML"	"RCurl"
#> [262]	"Rdpack"	"readr"	"readxl"
#> [265]	"recipes"	"RefManageR"	"rematch"
#> [268]	"rematch2"	"remotes"	"reprex"
#> [271]	"reshape2"	"reticulate"	"rex"
#> [274]	"rhub"	"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]	"semmccci"	"sessioninfo"	"sfd"
#> [298]	"shape"	"shiny"	"simStateSpace"
#> [301]	"slider"	"snow"	"snowfall"
#> [304]	"sourcetools"	"SparseM"	"SQUAREM"
#> [307]	"StanHeaders"	"statmod"	"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"	"unigd"
#> [331]	"urlchecker"	"usethis"	"utf8"
#> [334]	"uuid"	"V8"	"vctrs"
#> [337]	"viridis"	"viridisLite"	"vroom"
#> [340]	"waldo"	"warp"	"whisker"
#> [343]	"whoami"	"withr"	"workflows"
#> [346]	"workflowsets"	"xfun"	"xml2"
#> [349]	"xmlparsedata"	"xopen"	"xtable"
#> [352]	"yaml"	"yardstick"	"zip"
#> [355]	"base"	"boot"	"class"
#> [358]	"cluster"	"codetools"	"compiler"
#> [361]	"datasets"	"foreign"	"graphics"
#> [364]	"grDevices"	"grid"	"KernSmooth"
#> [367]	"lattice"	"MASS"	"Matrix"
#> [370]	"methods"	"mgcv"	"nlme"
#> [373]	"nnet"	"parallel"	"rpart"
#> [376]	"spatial"	"splines"	"stats"
#> [379]	"stats4"	"survival"	"tcltk"

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#> [382] "tools" "utils"
```

## References

R Core Team. (2024). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>