

# 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_0.0.13
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.5.0  R6_2.5.1         lubridate_1.9.3  xfun_0.45
#>  [5] magrittr_2.0.3   glue_1.7.0       stringr_1.5.1    knitr_1.47
#>  [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_1.0.12      RefManageR_1.4.0 rlang_1.1.4
```

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

## Packages

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

```
#> [1] "fitDTVARmX"      "abind"           "arrow"           "ash"
#> [5] "AsioHeaders"     "askpass"         "assertthat"      "backports"
#> [9] "base64enc"       "betaDelta"       "betaMC"          "betaNB"
#> [13] "betaSandwich"    "BH"              "bibtex"          "BiocManager"
#> [17] "bit"             "bit64"           "bitops"          "blob"
#> [21] "brew"            "brio"            "broom"           "bslib"
#> [25] "cachem"          "callr"           "car"             "caracas"
#> [29] "carData"         "cellranger"      "cfrfr"           "checkmate"
#> [33] "cli"             "clipr"           "clock"           "coda"
#> [37] "c0de"            "collections"     "colorspace"      "commonmark"
#> [41] "conflicted"      "corpcor"         "covr"            "cowplot"
#> [45] "cpp11"           "crayon"          "credentials"      "crosstalk"
#> [49] "cTMed"           "ctsem"           "curl"            "cyclocomp"
#> [53] "data.table"      "DBI"             "dbplyr"          "Deriv"
#> [57] "desc"            "deSolve"         "devtools"        "diagram"
#> [61] "dials"           "DiceDesign"      "diffobj"         "digest"
#> [65] "distributional"  "distrib"         "doBy"            "docopt"
#> [69] "doFuture"        "downlit"         "dplyr"           "DT"
#> [73] "dtplyr"          "duckdb"          "dynr"            "dynUtils"
#> [77] "ellipse"         "ellipsis"        "evaluate"        "expm"
#> [81] "fansi"           "farver"          "fastDummies"     "fastmap"
#> [85] "fclust"          "fda"             "fdrtool"         "fds"
#> [89] "FNN"             "fontawesome"     "forcats"         "foreach"
#> [93] "Formula"         "fs"              "fst"             "fstcore"
#> [97] "furrr"           "future"          "future.apply"    "gargle"
#> [101] "generics"        "gert"            "ggplot2"         "ggrepel"
#> [105] "gh"              "gitcreds"        "glasso"          "glmnet"
#> [109] "globals"         "glue"            "googledrive"     "googlesheets4"
#> [113] "gower"           "GPArotation"     "GPfit"           "gridExtra"
#> [117] "gsubfn"          "gtable"          "gtools"          "hardhat"
#> [121] "haven"           "hdcrcde"         "here"            "highr"
#> [125] "Hmisc"           "hms"             "htmlTable"       "htmltools"
#> [129] "htmlwidgets"     "httpgd"          "httpuv"          "httr"
#> [133] "httr2"           "ids"             "ifftools"        "igraph"
#> [137] "infer"           "ini"             "inline"          "ipred"
#> [141] "isoband"         "iterators"       "jomo"            "jpeg"
#> [145] "jquerylib"       "jsonlite"        "jsonvalidate"    "kernlab"
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#> [149] "knitr"           "ks"           "labeling"     "Lahman"
#> [153] "languageserver" "later"        "latex2exp"    "lava"
#> [157] "lavaan"         "lazyeval"     "lhs"          "lifecycle"
#> [161] "lintr"          "listenv"      "littler"      "lme4"
#> [165] "locfit"         "longMI"       "loo"          "lubridate"
#> [169] "magick"         "magrittr"     "markdown"     "MatrixModels"
#> [173] "matrixStats"    "mclust"       "memoise"      "metaSEM"
#> [177] "mice"           "microbenchmark" "mime"         "miniUI"
#> [181] "minqa"          "mitml"        "mize"         "mnormt"
#> [185] "modeldata"      "modelenv"     "modelr"       "MplusAutomation"
#> [189] "multicool"      "munsell"      "mvtnorm"      "nloptr"
#> [193] "numDeriv"       "nycflights13" "OpenMx"       "openssl"
#> [197] "ordinal"        "pan"          "pander"       "parallelly"
#> [201] "parsnip"        "patchwork"    "pbapply"      "pbivnorm"
#> [205] "pbkrtest"       "pcaPP"        "pdftools"     "pillar"
#> [209] "pkgbuild"       "pkgconfig"    "pkgdown"      "pkgload"
#> [213] "plogr"          "plyr"         "png"          "posterior"
#> [217] "pracma"         "praise"       "prettyunits"  "printr"
#> [221] "processx"       "prodlim"     "profvis"      "progress"
#> [225] "progressr"      "promises"     "proto"        "ps"
#> [229] "psych"          "purrr"        "qgraph"       "qpdf"
#> [233] "quadprog"       "quantreg"     "quarto"       "QuickJSR"
#> [237] "R.cache"        "R.methodsS3"  "R.oo"         "R.utils"
#> [241] "R6"             "ragg"         "rainbow"      "rappdirs"
#> [245] "rbibutils"      "rcmdcheck"    "RColorBrewer" "Rcpp"
#> [249] "RcppArmadillo"  "RcppEigen"    "RcppGSL"      "RcppParallel"
#> [253] "RcppTOML"       "RCurl"        "Rdpack"       "readr"
#> [257] "readxl"         "recipes"      "RefManageR"   "rematch"
#> [261] "rematch2"       "remotes"      "reprex"       "reshape2"
#> [265] "reticulate"     "rex"          "rhub"         "rlang"
#> [269] "RMariaDB"       "rmarkdown"    "roxygen2"     "rpf"
#> [273] "RPostgres"      "rProject"     "rprojroot"    "rsample"
#> [277] "RSQLite"        "rstan"        "rstantools"   "rstudioapi"
#> [281] "rversions"      "rvest"        "Ryacas"       "sass"
#> [285] "scales"         "selectr"      "semlbci"      "semmcci"
#> [289] "sessioninfo"    "shape"        "shiny"        "simStateSpace"
#> [293] "slider"         "snow"         "snowfall"     "sourcetools"
#> [297] "SparseM"        "SQUAREM"      "StanHeaders"  "statmod"
#> [301] "stringi"        "stringr"      "styler"       "symSEM"
#> [305] "sys"            "systemfonts"  "tensorA"      "testthat"
#> [309] "texreg"         "textshaping"  "tibble"       "tidymodels"
#> [313] "tidyr"          "tidyselect"   "tidyverse"    "timechange"
#> [317] "timeDate"       "tinytex"      "tune"         "tzdb"
#> [321] "ucminf"         "unigd"        "urlchecker"   "usethis"
#> [325] "utf8"           "uuid"         "V8"           "vctrs"

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#> [329] "viridis"          "viridisLite"      "vroom"            "waldo"
#> [333] "warp"            "whisker"          "whoami"           "withr"
#> [337] "workflows"       "workflowsets"     "xfun"             "xml2"
#> [341] "xmlparsedata"    "xopen"            "xtable"           "yaml"
#> [345] "yardstick"       "zip"              "base"             "boot"
#> [349] "class"           "cluster"          "codetools"        "compiler"
#> [353] "datasets"        "foreign"          "graphics"          "grDevices"
#> [357] "grid"            "KernSmooth"       "lattice"          "MASS"
#> [361] "Matrix"          "methods"          "mgcv"             "nlme"
#> [365] "nnet"            "parallel"         "rpart"            "spatial"
#> [369] "splines"         "stats"            "stats4"           "survival"
#> [373] "tcltk"          "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/>