

# 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_0.46
#>  [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

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

```
#> [1] "bslib" "cfr" "cli" "devtools"
#> [5] "fitDTVARmX" "gert" "httr2" "quarto"
#> [9] "Rcpp" "rProject" "shiny" "tinytex"
#> [13] "usethis" "withr" "xfun" "yaml"
#> [17] "abind" "arrow" "ash" "AsioHeaders"
#> [21] "askpass" "assertthat" "backports" "base64enc"
#> [25] "betaDelta" "betaMC" "betaNB" "betaSandwich"
#> [29] "BH" "bibtex" "BiocManager" "bit"
#> [33] "bit64" "bitops" "blob" "brew"
#> [37] "brio" "broom" "bslib" "cachem"
#> [41] "callr" "car" "caracas" "carData"
#> [45] "cellranger" "cfr" "checkmate" "cli"
#> [49] "clipr" "clock" "coda" "cOde"
#> [53] "collections" "colorspace" "commonmark" "conflicted"
#> [57] "corpcor" "covr" "cowplot" "cpp11"
#> [61] "crayon" "credentials" "crosstalk" "cTMed"
#> [65] "ctsem" "curl" "cyclocomp" "data.table"
#> [69] "DBI" "dbplyr" "Deriv" "desc"
#> [73] "deSolve" "devtools" "diagram" "dials"
#> [77] "DiceDesign" "diffobj" "digest" "distributional"
#> [81] "distro" "doBy" "docopt" "doFuture"
#> [85] "downlit" "dplyr" "DT" "dtplyr"
#> [89] "duckdb" "dynr" "dynUtils" "ellipse"
#> [93] "ellipsis" "evaluate" "expm" "fans"
#> [97] "farver" "fastDummies" "fastmap" "fclust"
#> [101] "fda" "fdrtool" "fds" "fitCTVARmX"
#> [105] "fitDTVARmX" "FNN" "fontawesome" "forcats"
#> [109] "foreach" "Formula" "fs" "fst"
#> [113] "fstcore" "furrr" "future" "future.apply"
#> [117] "gargle" "generics" "gert" "ggplot2"
#> [121] "ggrepel" "gh" "gitcreds" "glasso"
#> [125] "glmnet" "globals" "glue" "googledrive"
#> [129] "googlesheets4" "gower" "GPArotation" "GPfit"
#> [133] "gridExtra" "gsubfn" "gtable" "gtools"
#> [137] "hardhat" "haven" "hdcde" "here"
#> [141] "highr" "Hmisc" "hms" "htmlTable"
#> [145] "htmltools" "htmlwidgets" "httpgd" "httpuv"
```

#> [149]	"httr"	"httr2"	"ids"	"ifaTools"
#> [153]	"igraph"	"infer"	"ini"	"inline"
#> [157]	"ipred"	"isoband"	"iterators"	"jomo"
#> [161]	"jpeg"	"jquerylib"	"jsonlite"	"jsonvalidate"
#> [165]	"kernlab"	"knitr"	"ks"	"labeling"
#> [169]	"Lahman"	"languageserver"	"later"	"latex2exp"
#> [173]	"lava"	"lavaan"	"lazyeval"	"lhs"
#> [177]	"lifecycle"	"lintr"	"listenv"	"littler"
#> [181]	"lme4"	"locfit"	"longMI"	"loo"
#> [185]	"lubridate"	"magick"	"magrittr"	"markdown"
#> [189]	"MatrixModels"	"matrixStats"	"mclust"	"memoise"
#> [193]	"metaSEM"	"metaVAR"	"mice"	"microbenchmark"
#> [197]	"mime"	"miniUI"	"minqa"	"mitml"
#> [201]	"mize"	"mnormt"	"modeldata"	"modelenv"
#> [205]	"modelr"	"MplusAutomation"	"multicool"	"munsell"
#> [209]	"mvtnorm"	"nloptr"	"numDeriv"	"nycflights13"
#> [213]	"OpenMx"	"openssl"	"ordinal"	"pan"
#> [217]	"pander"	"parallelly"	"parsnip"	"patchwork"
#> [221]	"pbapply"	"pbivnorm"	"pbkrtest"	"pcaPP"
#> [225]	"pdftools"	"pillar"	"pkgbuild"	"pkgconfig"
#> [229]	"pkgdown"	"pkgload"	"plogr"	"plyr"
#> [233]	"png"	"posterior"	"pracma"	"praise"
#> [237]	"prettyunits"	"printr"	"processx"	"prodlim"
#> [241]	"profvis"	"progress"	"progressr"	"promises"
#> [245]	"proto"	"ps"	"psych"	"purrr"
#> [249]	"qgraph"	"qpdf"	"quadprog"	"quantreg"
#> [253]	"quarto"	"QuickJSR"	"R.cache"	"R.methodsS3"
#> [257]	"R.oo"	"R.utils"	"R6"	"ragg"
#> [261]	"rainbow"	"rappdirs"	"rbibutils"	"rcmdcheck"
#> [265]	"RColorBrewer"	"Rcpp"	"RcppArmadillo"	"RcppEigen"
#> [269]	"RcppGSL"	"RcppParallel"	"RcppTOML"	"RCurl"
#> [273]	"Rdpack"	"readr"	"readxl"	"recipes"
#> [277]	"RefManager"	"rematch"	"rematch2"	"remotes"
#> [281]	"reprex"	"reshape2"	"reticulate"	"rex"
#> [285]	"rhub"	"rlang"	"RMariaDB"	"rmarkdown"
#> [289]	"roxygen2"	"rpf"	"RPostgres"	"rProject"
#> [293]	"rprojroot"	"rsample"	"RSQLite"	"rstan"
#> [297]	"rstantools"	"rstudioapi"	"rversions"	"rvest"
#> [301]	"Ryacas"	"sass"	"scales"	"selectr"
#> [305]	"semlbci"	"semmccci"	"sessioninfo"	"shape"
#> [309]	"shiny"	"simStateSpace"	"slider"	"snow"
#> [313]	"snowfall"	"sourcetools"	"SparseM"	"SQUAREM"
#> [317]	"StanHeaders"	"statmod"	"stringi"	"stringr"
#> [321]	"styler"	"symSEM"	"sys"	"systemfonts"
#> [325]	"tensorA"	"testthat"	"texreg"	"textshaping"

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#> [329] "tibble"          "tidymodels"      "tidyr"           "tidyselect"
#> [333] "tidyverse"       "timechange"      "timeDate"        "tinytex"
#> [337] "tune"            "tzdb"            "ucminf"           "unigd"
#> [341] "urlchecker"      "usethis"         "utf8"             "uuid"
#> [345] "V8"              "vctrs"           "viridis"          "viridisLite"
#> [349] "vroom"           "waldo"           "warp"             "whisker"
#> [353] "whoami"          "withr"           "workflows"        "workflowsets"
#> [357] "xfun"            "xml2"            "xmlparsedata"     "xopen"
#> [361] "xtable"          "yaml"            "yardstick"        "zip"
#> [365] "base"            "boot"            "class"            "cluster"
#> [369] "codetools"       "compiler"        "datasets"         "foreign"
#> [373] "graphics"        "grDevices"       "grid"             "KernSmooth"
#> [377] "lattice"         "MASS"            "Matrix"           "methods"
#> [381] "mgcv"            "nlme"            "nnet"             "parallel"
#> [385] "rpart"           "spatial"         "splines"          "stats"
#> [389] "stats4"          "survival"        "tcltk"            "tools"
#> [393] "utils"

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## 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/>