

# Session Info

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## Session

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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

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

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

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