

# 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

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

```
#> [1] "simStateSpace"      "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"            "frrrr"              "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] "lazyeval"         "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] | "semmcci"       | "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"
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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/>