

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

```
#> [1] "cfr"      "gert"      "openssl"
#> [4] "rmarkdown" "rProject"  "simStateSpace"
#> [7] "V8"       "xfun"      "abind"
#> [10] "arm"      "arrow"     "ash"
#> [13] "AsioHeaders" "askpass"   "assertthat"
#> [16] "backports" "base64enc" "betaDelta"
#> [19] "betaMC"    "betaNB"    "betaSandwich"
#> [22] "BH"        "bibtex"    "BiocManager"
#> [25] "bit"       "bit64"     "bitops"
#> [28] "blob"      "brew"      "brio"
#> [31] "broom"     "bslib"     "cachem"
#> [34] "callr"     "car"       "caracas"
#> [37] "carData"   "cellranger" "cfr"
#> [40] "checkmate" "cli"       "clipr"
#> [43] "clock"     "clusterGeneration" "coda"
#> [46] "c0de"      "collections" "colorspace"
#> [49] "commonmark" "conflicted" "corpcor"
#> [52] "covr"      "cowplot"   "cpp11"
#> [55] "crayon"    "credentials" "crosstalk"
#> [58] "cTMed"     "ctsem"     "curl"
#> [61] "cyclocomp" "data.table" "DBI"
#> [64] "dbplyr"    "Deriv"     "desc"
#> [67] "deSolve"   "devtools"  "diagram"
#> [70] "dials"     "DiceDesign" "diffobj"
#> [73] "digest"    "distributional" "distro"
#> [76] "doBy"      "docopt"    "doFuture"
#> [79] "downlit"   "dplyr"     "DT"
#> [82] "dtplyr"    "duckdb"    "dynr"
#> [85] "dynUtils"  "ellipse"   "ellipsis"
#> [88] "evaluate"  "expm"      "fansi"
#> [91] "farver"    "fastDummies" "fastmap"
#> [94] "fclust"    "fda"       "fdrtool"
#> [97] "fds"       "fitCTVARMx" "fitDTVARMx"
#> [100] "FNN"       "fontawesome" "forcats"
#> [103] "foreach"   "Formula"   "fs"
#> [106] "fst"       "fstcore"   "furrr"
#> [109] "future"    "future.apply" "gargle"
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#> [112] "generics"      "gert"           "ggplot2"
#> [115] "ggrepel"       "gh"             "gitcreds"
#> [118] "glasso"        "glmnet"         "globals"
#> [121] "glue"          "googledrive"    "googlesheets4"
#> [124] "gower"         "GPArotation"    "GPfit"
#> [127] "graphicalVAR"  "gridExtra"      "gsubfn"
#> [130] "gtable"        "gtools"         "hardhat"
#> [133] "haven"         "hdcrcde"        "here"
#> [136] "highr"         "Hmisc"          "hms"
#> [139] "htmlTable"     "htmltools"      "htmlwidgets"
#> [142] "httpgd"        "httpuv"         "httr"
#> [145] "httr2"         "ids"            "ifaTools"
#> [148] "igraph"        "infer"          "ini"
#> [151] "inline"        "ipred"          "isoband"
#> [154] "iterators"     "jomo"           "jpeg"
#> [157] "jquerylib"     "jsonlite"       "jsonvalidate"
#> [160] "kernlab"       "knitr"          "ks"
#> [163] "labeling"      "Lahman"         "languageserver"
#> [166] "later"         "latex2exp"      "lava"
#> [169] "lavaan"        "lazyeval"       "lhs"
#> [172] "lifecycle"     "lintr"          "listenv"
#> [175] "littler"       "lme4"           "locfit"
#> [178] "longMI"        "loo"            "lubridate"
#> [181] "magick"        "magrittr"       "markdown"
#> [184] "MatrixModels" "matrixStats"    "mclust"
#> [187] "memoise"       "metaSEM"        "metaVAR"
#> [190] "mice"          "microbenchmark" "mime"
#> [193] "miniUI"        "minqa"          "mitml"
#> [196] "mize"          "mlVAR"          "mnormt"
#> [199] "modeldata"     "modelenv"       "modelr"
#> [202] "MplusAutomation" "multicool"     "munsell"
#> [205] "mvtnorm"       "nloptr"         "numDeriv"
#> [208] "nycflights13"  "OpenMx"         "openssl"
#> [211] "ordinal"       "pan"            "pander"
#> [214] "parallelly"    "parsnip"        "patchwork"
#> [217] "pbapply"       "pbivnorm"       "pbkrtest"
#> [220] "pcaPP"         "pdftools"       "pillar"
#> [223] "pkgbuild"      "pkgconfig"      "pkgdown"
#> [226] "pkgload"       "plogr"          "plyr"
#> [229] "png"           "posterior"      "pracma"
#> [232] "praise"        "prettyunits"    "printr"
#> [235] "processx"      "prodlim"        "profvis"
#> [238] "progress"      "progressr"      "promises"
#> [241] "proto"         "ps"             "psych"
#> [244] "purrr"         "qgraph"         "qpdf"

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#> [247]	"quadprog"	"quantreg"	"quarto"
#> [250]	"QuickJSR"	"R.cache"	"R.methodsS3"
#> [253]	"R.oo"	"R.utils"	"R6"
#> [256]	"ragg"	"rainbow"	"rappdirs"
#> [259]	"rbibutils"	"rcmdcheck"	"RColorBrewer"
#> [262]	"Rcpp"	"RcppArmadillo"	"RcppEigen"
#> [265]	"RcppGSL"	"RcppParallel"	"RcppTOML"
#> [268]	"RCurl"	"Rdpack"	"readr"
#> [271]	"readxl"	"recipes"	"RefManageR"
#> [274]	"rematch"	"rematch2"	"remotes"
#> [277]	"reprex"	"reshape2"	"reticulate"
#> [280]	"rex"	"rhub"	"rlang"
#> [283]	"RMariaDB"	"rmarkdown"	"roxygen2"
#> [286]	"rpf"	"RPostgres"	"rProject"
#> [289]	"rprojroot"	"rsample"	"RSQLite"
#> [292]	"rstan"	"rstantools"	"rstudioapi"
#> [295]	"rversions"	"rvest"	"Ryacas"
#> [298]	"sass"	"scales"	"selectr"
#> [301]	"semlbci"	"semmccci"	"sessioninfo"
#> [304]	"sfd"	"shape"	"shiny"
#> [307]	"simStateSpace"	"slider"	"snow"
#> [310]	"snowfall"	"sourcetools"	"SparseM"
#> [313]	"SQUAREM"	"StanHeaders"	"statmod"
#> [316]	"stringi"	"stringr"	"styler"
#> [319]	"symSEM"	"sys"	"systemfonts"
#> [322]	"tensorA"	"testthat"	"texreg"
#> [325]	"textshaping"	"tibble"	"tidymodels"
#> [328]	"tidyr"	"tidyselect"	"tidyverse"
#> [331]	"timechange"	"timeDate"	"tinytex"
#> [334]	"tune"	"tzdb"	"ucminf"
#> [337]	"unigd"	"urlchecker"	"usethis"
#> [340]	"utf8"	"uuid"	"V8"
#> [343]	"vctrs"	"viridis"	"viridisLite"
#> [346]	"vroom"	"waldo"	"warp"
#> [349]	"whisker"	"whoami"	"withr"
#> [352]	"workflows"	"workflowsets"	"xfun"
#> [355]	"xml2"	"xmlparsedata"	"xopen"
#> [358]	"xtable"	"yaml"	"yardstick"
#> [361]	"zip"	"base"	"boot"
#> [364]	"class"	"cluster"	"codetools"
#> [367]	"compiler"	"datasets"	"foreign"
#> [370]	"graphics"	"grDevices"	"grid"
#> [373]	"KernSmooth"	"lattice"	"MASS"
#> [376]	"Matrix"	"methods"	"mgcv"
#> [379]	"nlme"	"nnet"	"parallel"

```
#> [382] "rpart"          "spatial"        "splines"
#> [385] "stats"          "stats4"         "survival"
#> [388] "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/>