Session Info

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Session

```r
sessionInfo()

#> R version 4.3.1 (2023-06-16)
#> Platform: x86_64-pc-linux-gnu (64-bit)
#> Running under: Ubuntu 22.04.3 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/libopenblasp-r0.3.20.so;  LAPACK version 3.10.
#>
#> 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_0.0.5
#>
#> loaded via a namespace (and not attached):
#>  [1] backports_1.4.1   R6_2.5.1          lubridate_1.9.2   xfun_0.40
#>  [5] magrittr_2.0.3    glue_1.6.2        stringr_1.5.0     knitr_1.44
#>  [9] timechange_0.2.0  generics_0.1.3    lifecycle_1.0.3   xml2_1.3.5
#> [13] cli_3.6.1.9000    bibtex_0.5.1      compiler_4.3.1    plyr_1.8.8
#> [17] highr_0.10        rprojroot_2.0.3   httr_1.4.7        rstudioapi_0.15.0
#> [21] tools_4.3.1       evaluate_0.21     Rcpp_1.0.11       RefManageR_1.4.0
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#> [25] rlang_1.1.1        jsonlite_1.8.7    stringi_1.7.12
```

Packages

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

```
#>   [1] "crosstalk"       "DT"              "kalmanSSM"       "abind"
#>   [5] "arrow"           "ash"             "askpass"         "assertthat"
#>   [9] "backports"       "base64enc"       "betaDelta"       "betaMC"
#>  [13] "betaNB"          "betaSandwich"    "BH"              "bibtex"
#>  [17] "BiocManager"     "bit"             "bit64"           "bitops"
#>  [21] "blob"            "brew"            "brio"            "broom"
#>  [25] "bslib"           "cachem"          "callr"           "car"
#>  [29] "carData"         "cellranger"      "cffr"            "checkmate"
#>  [33] "cli"             "clipr"           "clock"           "collections"
#>  [37] "colorspace"      "commonmark"      "conflicted"      "corpcor"
#>  [41] "covr"            "cpp11"           "crayon"          "credentials"
#>  [45] "curl"            "cyclocomp"       "data.table"      "DBI"
#>  [49] "dbplyr"          "desc"            "deSolve"         "devtools"
#>  [53] "diagram"         "dials"           "DiceDesign"      "diffobj"
#>  [57] "digest"          "distro"          "docopt"          "downlit"
#>  [61] "dplyr"           "dtplyr"          "duckdb"          "dynr"
#>  [65] "ellipsis"        "evaluate"        "fansi"           "farver"
#>  [69] "fastmap"         "fclust"          "fda"             "fdrtool"
#>  [73] "fds"             "FNN"             "fontawesome"     "forcats"
#>  [77] "foreach"         "Formula"         "fs"              "fst"
#>  [81] "fstcore"         "furrr"           "future"          "future.apply"
#>  [85] "gargle"          "generics"        "gert"            "ggplot2"
#>  [89] "gh"              "gitcreds"        "glasso"          "glmnet"
#>  [93] "globals"         "glue"            "googledrive"     "googlesheets4"
#>  [97] "gower"           "GPfit"           "gridExtra"       "gtable"
#> [101] "gtools"          "hardhat"         "haven"           "hdrcde"
#> [105] "highr"           "Hmisc"           "hms"             "htmlTable"
#> [109] "htmltools"       "htmlwidgets"     "httpgd"          "httpuv"
#> [113] "httr"            "httr2"           "ids"             "ifaTools"
#> [117] "igraph"          "infer"           "ini"             "ipred"
#> [121] "isoband"         "iterators"       "jomo"            "jpeg"
#> [125] "jquerylib"       "jsonlite"        "jsonvalidate"    "kernlab"
#> [129] "knitr"           "ks"              "labeling"        "Lahman"
#> [133] "languageserver"  "later"           "latex2exp"       "lava"
#> [137] "lavaan"          "lazyeval"        "lhs"             "lifecycle"
#> [141] "lintr"           "listenv"         "littler"         "lme4"
#> [145] "locfit"          "lubridate"       "magick"          "magrittr"
```

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#> [149] "markdown"       "Matrix"          "MatrixModels"    "mclust"
#> [153] "memoise"        "mice"            "microbenchmark"  "mime"
#> [157] "miniUI"         "minqa"           "misc3d"          "mitml"
#> [161] "mnormt"         "modeldata"       "modelenv"        "modelr"
#> [165] "multicool"      "munsell"         "mvtnorm"         "nloptr"
#> [169] "numDeriv"       "nycflights13"    "OpenMx"          "openssl"
#> [173] "ordinal"        "packrat"         "pan"             "parallelly"
#> [177] "parsedate"      "parsnip"         "patchwork"       "pbapply"
#> [181] "pbivnorm"       "pbkrtest"        "pcaPP"           "pdftools"
#> [185] "pillar"         "pkgbuild"        "pkgconfig"       "pkgdown"
#> [189] "pkgload"        "plogr"           "plot3D"          "plyr"
#> [193] "png"            "pracma"          "praise"          "prettyunits"
#> [197] "printr"         "processx"        "prodlim"         "profvis"
#> [201] "progress"       "progressr"       "promises"        "ps"
#> [205] "psych"          "purrr"           "qgraph"          "qpdf"
#> [209] "quadprog"       "quantreg"        "quarto"          "R.cache"
#> [213] "R.methodsS3"    "R.oo"            "R.utils"         "R6"
#> [217] "ragg"           "rainbow"         "rappdirs"        "rbibutils"
#> [221] "rcmdcheck"      "RColorBrewer"    "Rcpp"            "RcppArmadillo"
#> [225] "RcppEigen"      "RcppGSL"         "RcppParallel"    "RCurl"
#> [229] "Rdpack"         "readr"           "readxl"          "recipes"
#> [233] "RefManageR"     "rematch"         "rematch2"        "remotes"
#> [237] "renv"           "reprex"          "reshape2"        "rex"
#> [241] "rhub"           "rlang"           "RMariaDB"        "rmarkdown"
#> [245] "roxygen2"       "rpf"             "RPostgres"       "rProject"
#> [249] "rprojroot"      "rsample"         "rsconnect"       "RSQLite"
#> [253] "rstudioapi"     "rversions"       "rvest"           "Ryacas"
#> [257] "sass"           "scales"          "selectr"         "semmcci"
#> [261] "sessioninfo"    "shape"           "shiny"           "slider"
#> [265] "snow"           "snowfall"        "sourcetools"     "SparseM"
#> [269] "SQUAREM"        "StanHeaders"     "stringi"         "stringr"
#> [273] "styler"         "sys"             "systemfonts"     "testthat"
#> [277] "textshaping"    "tibble"          "tidymodels"      "tidyr"
#> [281] "tidyselect"     "tidyverse"       "timechange"      "timeDate"
#> [285] "tinytex"        "tune"            "tzdb"            "ucminf"
#> [289] "urlchecker"     "usethis"         "utf8"            "uuid"
#> [293] "V8"             "vctrs"           "viridis"         "viridisLite"
#> [297] "vroom"          "waldo"           "warp"            "whisker"
#> [301] "whoami"         "withr"           "workflows"       "workflowsets"
#> [305] "xfun"           "xml2"            "xmlparsedata"    "xopen"
#> [309] "xtable"         "yaml"            "yardstick"       "zip"
#> [313] "base"           "boot"            "class"           "cluster"
#> [317] "codetools"      "compiler"        "datasets"        "foreign"
#> [321] "graphics"       "grDevices"       "grid"            "KernSmooth"
#> [325] "lattice"        "MASS"            "Matrix"          "methods"
```

```
#> [329] "mgcv"       "nlme"       "nnet"       "parallel"
#> [333] "rpart"      "spatial"    "splines"    "stats"
#> [337] "stats4"     "survival"   "tcltk"      "tools"
#> [341] "utils"
```

References

R Core Team. (2023). *R: A language and environment for statistical computing.* R Foundation for
     Statistical Computing. Vienna, Austria. https://www.R-project.org/