Session Info

Ivan Jacob Agaloos Pesigan

Session

```
sessionInfo()
#> R version 4.3.2 (2023-10-31)
#> 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_0.0.7
#>
#> loaded via a namespace (and not attached):
#> [1] backports_1.4.1 R6_2.5.1 lubridate_1.9.3 xfun_0.41
#> [5] magrittr_2.0.3 glue_1.7.0 stringr_1.5.1 knitr_1.45
#> [9] timechange_0.3.0 generics_0.1.3 lifecycle_1.0.4
                                                          xml2_1.3.6
                                       compiler_4.3.2
#> [13] cli_3.6.2.9000
                                                          highr_0.10
                        bibtex_0.5.1
                                        httr_1.4.7
#> [17] rprojroot_2.0.4 plyr_1.8.9
                                                          rstudioapi_0.15.0
#> [21] tools_4.3.2
                     evaluate_0.23
                                      Rcpp_1.0.12
                                                          RefManageR_1.4.0
```

Packages

#> [1] "commonmark" "httpuv" "R.oo" "roxygen2" #> [5] "rProject" "rsconnect" "simStateSpace" "tinytex" #> [9] "zip" "abind" "arm" "arrow" #> [13] "ash" "askpass" "assertthat" "backports" #> [17] "base64enc" "betaDelta" "betaMC" "betaNB" #> [21] "betaSandwich" "BH" "bibtex" "BiocManager" #> [22] "brew" "brio" "broom" "bslib" #> [23] "cachem" "callr" "car" "caracas" #> [33] "cachem" "clipr" "clock" "coda" #> [41] "cli" "clipr" "clock" "coda" #> [45] "corlections" "colorspace" "commonmark" "conflicted" #> [49] "corpcor" "covr" "cpp11" "crayon" #> [57] "data.table" "DBT" "dbplyr" "Deriv" #> [61] "desc" "deSolve" "devtools" "diagram" #> [63] "dials" "DiceDesign" "diffobj" "digest" #> [63] "diyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [88] "fAd" "fdtool" "fds" "fitUU" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [89] "FNN" "fontawesome" "fst" "gagpelsheets4" #> [10] "generics" "gert" "gagplot2" "ggrepel" #> [11] "goods" "hardhath" "haven" "hardced" #> [12] "httpu" "http" "httpgd" #> [13] "gower" "GPfit" "gridExtra" "gtable" #> [14] "lools" "hardhath" "haven" "hardced" #> [14] "lools" "hardhath" "haven" "hardced" #> [14] "loon" "httpgd" "hittpgd" #> [14] "here" "highr" "jonon" "jonon" "jonovalidate" #> [14] "lope" "jquerylib" "jsonvalidate" #> [146] "kernlab" "knitr" "ks" "labeling"	unr	<pre>unname(installed.packages()[, 1])</pre>									
#> [5] "rProject" "rsconnect" "simStateSpace" "tinytex" 9] "zip" "abind" "arm" "arrow" 13] "ash" "askpass" "assertthat" "backports" 14] "base64enc" "betabelta" "betaWC" "betaWB" 17] "base64enc" "betabelta" "bitox" "BiocManager" 18] "bit" "bit64" "bitox" "BiocManager" 18] "prew" "brio" "broom" "bslib" 18] "cachem" "callr" "car" "caracas" 18] "carData" "cellranger" "cffr" "checkmate" 18] "carData" "colorspace" "commonmark" "conflicted" 18] "corpcor" "covr" "cpp11" "crayon" 18] "cardentials" "crosstalk" "curl" "cyclocomp" 18] "ford data.table" "DBI" "devtools" "diagram" 18] "fold desc" "deSolve" "devtools" "diagram" 18] "fold distro" "doSy" "docopt" "downlit" 18] "follyr" "DT" "dtplyr" "duckdb" 18] "fansi" "farver" "fastmap" "fclust" 18] "fansi" "farver" "fastmap" "forcats" "forcach" 18] "formula" "fg" "fgtrool" "ggrepel" 19] "Formula" "fg" "ggplot2" "ggrepel" 10] "generics" "gur" "ggrlot2" "ggrepel" 11] "generics" "gur" "gridExtra" "gtable" 11] "glools" "hardhat" "haven" "hdrode" 11] "here" "highr" "httpd" 11] "jono" "httpd" 11] "jono" "jono" "jono" "jono" "jono" "jono" "jono" "jono" "jonolidate"	#>	[1]	"commonmark"	"httpuv"	"R.oo"	"roxygen2"					
#> [9] "zip" "ashnd" "arm" "arrow" [13] "ash" "askpass" "assertthat" "backports" [17] "base64enc" "betaDelat" "betaMC" "betaNB" [21] "betaSandwich" "BH" "bibtex" "BiocManager" [25] "bit" "bit64" "bitops" "blob" "blob" "brom" "bslib" "brom" "bslib" "carl" "caracas" "callr" "car" "caracas" "cellranger" "cffr" "checkmate" "clip" "clock" "coda" "coda" "colorspace" "commonmark" "conflicted" "corpit" "	#>	[5]	"rProject"	=	"simStateSpace"						
#> [13] "ash" "askpass" "assertthat" "backports" #> [17] "base64enc" "betaDelta" "betaMC" "betaNB" #> [21] "betaSandwich" "BH" "bitex" "BiocManager" #> [25] "bit" "bit64" "bitops" "blob" #> [29] "brew" "brio" "broom" "bslib" #> [33] "cachem" "callr" "car" "caracas" #> [37] "carData" "cellranger" "cffr" "checkmate" #> [45] "collections" "colorspace" "commonmark" "conflicted" #> [45] "collections" "covr" "cpp11" "crayon" #> [53] "credentials" "crosstalk" "curl" "cycoomp" #> [53] "credentials" "crosstalk" "curl" "cycoomp" #> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "diagram" #> [66] "distro" "doBy" "docopt" "downlit" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "folust" #> [83] "FNN" "fontawesome" "forcats" "foreach" #> [83] "Formula" "fs" "fstture "fiture apply" "gargle" #> [101] "generics" "gule" "googledrive" "googlesheets4" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [11] "here" "himbrols" "htmlwidgets" "httpgd" #> [11] "here" "himbrols" "htmlwidgets" "httpgd" #> [12] "httpur" "httr" "httr2" "ids" #> [13] "ifaTools" "igraph" "iferences" "jomo" #> [141] "jpeg" "jquerylib" "jsonvalidate"	#>	[9]		"abind"							
#> [17] "base64enc" "betaDelta" "betaMC" "betaNB" [21] "betaSandwich" "BH" "bitbex" "BiocManager" [25] "bit" "bit64" "bitops" "blob" [28] "brew" "brio" "broom" "bslib" [33] "cachem" "callr" "car" "caracas" [37] "carData" "cellranger" "cffr" "checkmate" [41] "cli" "clipr" "clock" "coda" "coda" "corycor" "covr" "cpp11" "crayon" [45] "corpcor" "covr" "cpp11" "crayon" "crayon" [48] "corpcor" "covr" "cpp11" "periv" "betiv" "desolve" "devtools" "diagram" "betiv" "digest" "digest" "digest" "digest" "digest" "docopt" "downlit" "betiv" "digest" "digest" "betiv" "digest" "glass" "foreach" "fitoU" "fist" "fitoU" "fist" "fitoU" "fist" "fitoU" "gargle" "fitoU" "gargle" "gerpel" "gargle" "gerpel" "gargle" "gerpel" "gargle" "gridextra" "gtable" "gargle" "digest" "digest	#>										
#> [25] "bit" "bit64" "bitops" "blob" #> [29] "brew" "brio" "broom" "bslib" #> [33] "cachem" "callr" "car" "caracas" #> [37] "carpata" "cellranger" "cffr" "checkmate" #> [41] "cli" "clipr" "clock" "coda" #> [45] "collections" "colorspace" "commonmark" "conflicted" #> [49] "corpcor" "covr" "cpp11" "crayon" #> [53] "credentials" "crosstalk" "curl" "cyclocomp" #> [53] "credentials" "crosstalk" "detools" "diagram" #> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "digest" #> [69] "distro" "doby" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [73] "dplyr" "DT" "dtplyr" "folust" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fda" "fdrtool" "fds" "fit0U" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [89] "Formula" "fs" "fst" "fstcore" #> [93] "Formula" "fs" "guery" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [103] "globals" "glue" "googledrive" "googlesheets4" #> [131] "gower" "GPfit" "gridExtra" "gtable" #> [132] "here" "highr" "Hmisc" "hhtmy" #> [133] "ifaTools" "hardhat" "haven" "httpgd" #> [133] "ifaTools" "httpl" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[17]	"base64enc"		"betaMC"						
#> [25] "bit" "bit64" "bitops" "blob" #> [29] "brew" "brio" "broom" "bslib" #> [33] "cachem" "callr" "car" "caracas" #> [37] "carpata" "cellranger" "cffr" "checkmate" #> [41] "cli" "clipr" "clock" "coda" #> [45] "collections" "colorspace" "commonmark" "conflicted" #> [49] "corpcor" "covr" "cpp11" "crayon" #> [53] "credentials" "crosstalk" "curl" "cyclocomp" #> [53] "credentials" "crosstalk" "detools" "diagram" #> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "digest" #> [69] "distro" "doby" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [73] "dplyr" "DT" "dtplyr" "folust" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fda" "fdrtool" "fds" "fit0U" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [89] "Formula" "fs" "fst" "fstcore" #> [93] "Formula" "fs" "guery" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [103] "globals" "glue" "googledrive" "googlesheets4" #> [131] "gower" "GPfit" "gridExtra" "gtable" #> [132] "here" "highr" "Hmisc" "hhtmy" #> [133] "ifaTools" "hardhat" "haven" "httpgd" #> [133] "ifaTools" "httpl" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[21]	"betaSandwich"	"BH"	"bibtex"	"BiocManager"					
#> [29] "brew" "brio" "broom" "bslib" #> [33] "cachem" "callr" "car" "caracas" #> [37] "carData" "cellranger" "cffr" "checkmate" #> [41] "cli" "clipr" "clock" "coda" #> [45] "collections" "colorspace" "commonnark" "conflicted" #> [49] "corpcor" "covr" "cpp11" "crayon" #> [53] "credentials" "crosstalk" "curl" "cyclocomp" #> [57] "data.table" "DBI" "dbplyr" "Deriv" #> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "digest" #> [66] "distro" "doby" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fdd" "ffotool" "fds" "fit0U" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "httpd" #> [122] "httpu" "httpu" "httr" "httr2" "ids" #> [133] "ifaTools" "igaph" "infer" "inii" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[25]	"bit"	"bit64"	"bitops"						
#> [37] "carData" "cellranger" "cffr" "checkmate" #> [41] "cli" "clipr" "clock" "coda" #> [45] "collections" "colorspace" "commonmark" "conflicted" #> [49] "corpcor" "covr" "cpp11" "crayon" #> [53] "credentials" "crosstalk" "curl" "cyclocomp" #> [57] "data.table" "DBI" "detvools" "diagram" #> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "digest" #> [69] "distro" "doBy" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fda" "fdrtool" "fds" "fitOU" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "httpd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [131] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[29]	"brew"	"brio"		"bslib"					
#> [41] "cli" "clipr" "clock" "coda" #> [45] "collections" "colorspace" "commonmark" "conflicted" #> [49] "corpcor" "covr" "cpp11" "crayon" #> [53] "credentials" "crosstalk" "curl" "cyclocomp" #> [57] "data.table" "DBI" "dbplyr" "Deriv" #> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "digest" #> [69] "distro" "doBy" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [83] "FNN" "fontawesome" "forcats" "foreach" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "himlols" "htmlvidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "inin" #> [131] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[33]	"cachem"	"callr"	"car"	"caracas"					
#> [41] "cli" "clipr" "clock" "coda" #> [45] "collections" "colorspace" "commonmark" "conflicted" #> [49] "corpcor" "covr" "cpp11" "crayon" #> [53] "credentials" "crosstalk" "curl" "cyclocomp" #> [57] "data.table" "DBI" "dbplyr" "Deriv" #> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "digest" #> [69] "distro" "doBy" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [83] "FNN" "fontawesome" "forcats" "foreach" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "himlols" "htmlvidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "inin" #> [131] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[37]	"carData"	"cellranger"	"cffr"	"checkmate"					
#> [45] "collections" "colorspace" "commonmark" "conflicted" #> [49] "corpcor" "covr" "cpp11" "crayon" #> [53] "credentials" "crosstalk" "curl" "cyclocomp" #> [57] "data.table" "DBI" "deplyr" "Deriv" #> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "digest" #> [69] "distro" "doBy" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [73] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fdd" "fdrtool" "fds" "fit0U" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [102] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[41]	"cli"		"clock"	"coda"					
#> [49] "corpcor" "covr" "cpp11" "crayon" #> [53] "credentials" "crosstalk" "curl" "cyclocomp" #> [57] "data.table" "DBI" "deplyr" "Deriv" #> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "digest" #> [69] "distro" "doBy" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fdd" "fdrtool" "fds" "fit0U" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "gImnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "hms" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[45]	"collections"		"commonmark"	"conflicted"					
#> [53] "credentials" "crosstalk" "curl" "cyclocomp" #> [57] "data.table" "DBI" "dbplyr" "Deriv" #> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "digest" #> [69] "distro" "doBy" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fda" "fdrtool" "fds" "fitUU" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hmsc" #> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[49]	"corpcor"		"cpp11"	"crayon"					
#> [61] "desc" "deSolve" "devtools" "diagram" #> [65] "dials" "DiceDesign" "diffobj" "digest" #> [69] "distro" "doBy" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fda" "fdrtool" "fds" "fitOU" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "gaplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [133] "ifaTools" "igraph" "infer" "inii" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[53]	"credentials"	"crosstalk"		"cyclocomp"					
#> [65] "dials" "DiceDesign" "diffobj" "digest" #> [69] "distro" "doBy" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fda" "fdrtool" "fds" "fit0U" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "httpgd" #> [125] "httmlTable" "httmltools" "htmlwidgets" "httpgd" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[57]	"data.table"	"DBI"	"dbplyr"	"Deriv"					
#> [69] "distro" "doBy" "docopt" "downlit" #> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fda" "fdrtool" "fds" "fitOU" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[61]	"desc"		"devtools"	"diagram"					
#> [73] "dplyr" "DT" "dtplyr" "duckdb" #> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fda" "fdrtool" "fds" "fit0U" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[65]	"dials"	"DiceDesign"	"diffobj"	"digest"					
#> [77] "dynr" "ellipse" "ellipsis" "evaluate" #> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fda" "fdrtool" "fds" "fitOU" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[69]	"distro"	"doBy"	"docopt"	"downlit"					
#> [81] "fansi" "farver" "fastmap" "fclust" #> [85] "fda" "fdrtool" "fds" "fitOU" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>			"DT"		"duckdb"					
#> [85] "fda" "fdrtool" "fds" "fitOU" #> [89] "FNN" "fontawesome" "forcats" "foreach" #> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[77]	"dynr"	"ellipse"	"ellipsis"	"evaluate"					
<pre>#> [89] "FNN"</pre>	#>			"farver"	"fastmap"	"fclust"					
<pre>#> [93] "Formula" "fs" "fst" "fstcore" #> [97] "furrr" "future" "future.apply" "gargle" #> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"</pre>	#>			"fdrtool"	"fds"	"fitOU"					
<pre>#> [97] "furrr"</pre>	#>			"fontawesome"	"forcats"	"foreach"					
#> [101] "generics" "gert" "ggplot2" "ggrepel" #> [105] "gh" "gitcreds" "glasso" "glmnet" #> [109] "globals" "glue" "googledrive" "googlesheets4" #> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"	#>	[93]	"Formula"	"fs"	"fst"						
<pre>#> [105] "gh"</pre>											
<pre>#> [109] "globals"</pre>											
<pre>#> [113] "gower" "GPfit" "gridExtra" "gtable" #> [117] "gtools" "hardhat" "haven" "hdrcde" #> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"</pre>											
<pre>#> [117] "gtools"</pre>											
#> [121] "here" "highr" "Hmisc" "hms" #> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"											
#> [125] "htmlTable" "htmltools" "htmlwidgets" "httpgd" #> [129] "httpuv" "httr" "httr2" "ids" #> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"											
<pre>#> [129] "httpuv"</pre>											
<pre>#> [133] "ifaTools" "igraph" "infer" "ini" #> [137] "ipred" "isoband" "iterators" "jomo" #> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"</pre>											
#> [137] "ipred" "isoband" "iterators" "jomo" "jomo" "jomo" "jomo" "jsonlite" "jsonvalidate"			_								
<pre>#> [141] "jpeg" "jquerylib" "jsonlite" "jsonvalidate"</pre>											
						=					
#> [145] "kernlab" "knitr" "ks" "labeling"			01 0								
	#>	[145]	"kernlab"	"knitr"	"ks"	"labeling"					

```
#> [149] "Lahman"
                           "languageserver" "later"
                                                               "latex2exp"
#> [153] "lava"
                           "lavaan"
                                             "lazyeval"
                                                               "lhs"
#> [157] "lifecycle"
                           "lintr"
                                             "listenv"
                                                               "littler"
                           "locfit"
#> [161] "lme4"
                                             "longMI"
                                                               "lubridate"
#> [165] "magick"
                           "magrittr"
                                             "markdown"
                                                               "MatrixModels"
#> [169] "MBESS"
                                             "memoise"
                           "mclust"
                                                               "metaSEM"
#> [173] "mi"
                           "mice"
                                             "microbenchmark" "mime"
#> [177] "miniUI"
                           "minga"
                                             "mitml"
                                                               "mnormt"
#> [181] "modeldata"
                           "modelenv"
                                             "modelr"
                                                               "multicool"
#> [185] "munsell"
                           "mvtnorm"
                                             "nloptr"
                                                               "numDeriv"
#> [189] "nycflights13"
                           "OpenMx"
                                             "openssl"
                                                               "ordinal"
#> [193] "packrat"
                           "pan"
                                             "parallelly"
                                                               "parsedate"
#> [197] "parsnip"
                           "patchwork"
                                             "pbapply"
                                                               "pbivnorm"
#> [201] "pbkrtest"
                           "pcaPP"
                                             "pdftools"
                                                               "pillar"
#> [205] "pkgbuild"
                           "pkgconfig"
                                             "pkgdown"
                                                               "pkgload"
#> [209] "plogr"
                           "plyr"
                                             "png"
                                                               "pracma"
#> [213] "praise"
                           "prettyunits"
                                             "printr"
                                                               "processx"
#> [217] "prodlim"
                           "profvis"
                                             "progress"
                                                               "progressr"
#> [221] "promises"
                           "ps"
                                             "psych"
                                                               "purrr"
#> [225] "qgraph"
                           "qpdf"
                                             "quadprog"
                                                               "quantreg"
#> [229] "quarto"
                           "R.cache"
                                             "R.methodsS3"
                                                               "R.oo"
#> [233] "R.utils"
                           "R6"
                                             "ragg"
                                                               "rainbow"
#> [237] "rappdirs"
                           "rbibutils"
                                             "rcmdcheck"
                                                               "RColorBrewer"
#> [241] "Rcpp"
                           "RcppArmadillo"
                                             "RcppEigen"
                                                               "RcppGSL"
#> [245] "RcppParallel"
                           "RcppTOML"
                                             "RCurl"
                                                               "Rdpack"
#> [249] "readr"
                           "readxl"
                                                               "RefManageR"
                                             "recipes"
#> [253] "rematch"
                           "rematch2"
                                                               "renv"
                                             "remotes"
                                             "reticulate"
#> [257] "reprex"
                                                               "rex"
                           "reshape2"
#> [261] "rhub"
                           "rlang"
                                             "RMariaDB"
                                                               "rmarkdown"
#> [265] "roxygen2"
                           "rpf"
                                                               "rProject"
                                             "RPostgres"
#> [269] "rprojroot"
                           "rsample"
                                             "rsconnect"
                                                               "RSQLite"
#> [273] "rstudioapi"
                           "rversions"
                                             "rvest"
                                                               "Ryacas"
#> [277] "sass"
                           "scales"
                                             "selectr"
                                                               "sem"
#> [281] "semlbci"
                           "semmcci"
                                             "semTools"
                                                               "sessioninfo"
#> [285] "shape"
                           "shiny"
                                             "shinyAce"
                                                               "simStateSpace"
#> [289] "slider"
                           "snow"
                                             "snowfall"
                                                               "sourcetools"
#> [293] "SparseM"
                                             "StanHeaders"
                           "SQUAREM"
                                                               "stringi"
#> [297] "stringr"
                           "styler"
                                             "swirl"
                                                               "swirlify"
#> [301] "symSEM"
                           "sys"
                                             "systemfonts"
                                                               "testthat"
#> [305] "textshaping"
                           "tibble"
                                             "tidymodels"
                                                               "tidyr"
#> [309] "tidyselect"
                           "tidyverse"
                                             "timechange"
                                                               "timeDate"
#> [313] "tinytex"
                                             "tzdb"
                                                               "ucminf"
                           "tune"
#> [317] "urlchecker"
                           "usethis"
                                             "utf8"
                                                               "uuid"
                           "vctrs"
#> [321] "V8"
                                             "viridis"
                                                               "viridisLite"
#> [325] "vroom"
                           "waldo"
                                             "warp"
                                                               "whisker"
```

#>	[329]	"whoami"	"withr"	"workflows"	"workflowsets"
#>	[333]	"xfun"	"xml2"	"xmlparsedata"	"xopen"
#>	[337]	"xtable"	"yaml"	"yardstick"	"zip"
#>	[341]	"base"	"boot"	"class"	"cluster"
#>	[345]	"codetools"	"compiler"	"datasets"	"foreign"
#>	[349]	"graphics"	"grDevices"	"grid"	"KernSmooth"
#>	[353]	"lattice"	"MASS"	"Matrix"	"methods"
#>	[357]	"mgcv"	"nlme"	"nnet"	"parallel"
#>	[361]	"rpart"	"spatial"	"splines"	"stats"
#>	[365]	"stats4"	"survival"	"tcltk"	"tools"
#>	[369]	"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/