# crossTable

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2018-10-16

## crossTable

Creates a contingency table of 2 variables. Percentage are optionals by row or column. It can provides an optional statistic (fisher or chisquare).

NB: rossTable provides a better view of results if data are ordered factors.

### Recoding some data to ordered factors

```
data(Tiramisu)
DF <- Tiramisu
DF %<>%
    orderFactors(c(1, 5, 7:9, 11, 13:21) , values = c(1,0), labels = c("YES", "NO")) %>%
    orderFactors(sex, values = c("males", "females"), labels = c("Males", "Females"))
```

#### crossTable ill - tira

$\overline{\mathrm{tira}\ /\ \mathrm{ill}}$	YES	NO	Total
YES	94	27	121
NO	7	158	165
Total	101	185	286

#### crossTable ill - sex with column percentage and chi2 stat

```
ret <- crossTable(DF, "ill", "sex", "col", "chi2")</pre>
ret
##
       sex / ill
                     YES
                             NO Total
## 1
           Males
                      50
                            102
                                   152
               % 48.54 54.26 52.23
## 2
        Females
                      53
                             86
                                   139
                % 51.46 45.74 47.77
## 4
## 5
           Total
                    103
                           188
## 6
               % 100.00 100.00 100.00
## 8 Pearson CHI2 0.8701
                            Pr 0.351
kable(ret, align="r", caption = "% en colonne")
```

Table 2: % en colonne

sex / ill	YES	NO	Total
Males	50	102	152
%	48.54	54.26	52.23
Females	53	86	139
%	51.46	45.74	47.77
Total	103	188	291
%	100.00	100.00	100.00
-	-	-	-
Pearson CHI2	0.8701	$\Pr$	0.351

#### CrossTable ill - sex with row percentage and Fisher stat

NB: All variales are unquoted

```
ret <- crossTable(DF, ill, sex, row)
ret

## sex / ill YES  % NO  % Total  %
## 1  Males 50 32.89 102 67.11 152 100
## 2  Females 53 38.13 86 61.87 139 100
## 3  Total 103 35.40 188 64.60 291 100
kable(ret, align="r", caption = "% en ligne")</pre>
```

Table 3: % en ligne

sex / ill	YES	%	NO	%	Total	%
Males Females Total	53	32.89 38.13 35.40	86	67.11 61.87 64.60	152 139 291	100 100 100

# CrossTable ill - sex with column and row percentages and no stat

NB: All variales are unquoted

```
ret <- crossTable(DF, ill, sex, both)</pre>
ret
     sex / ill
                  YES
                          %
##
                                          Total
                                NO
## 1
        Males
                   50 32.89
                               102 67.11
                                            152 100.00
## 2
            % 48.54
                             54.26
      Females
                   53 38.13
                                86 61.87
                                            139 100.00
## 4
             % 51.46
                       - 45.74
## 5
        Total
                  103 35.40
                               188 64.60
                                            291 100.00
                         - 100.00
            % 100.00
                                       - 100.00
## 6
kable(ret, align="r", caption = "% rows and columns")
```

Table 4: % rows and columns

sex / ill	YES	%	NO	%	Total	%
Males	50	32.89	102	67.11	152	100.00
%	48.54	_	54.26	-	-	_
Females	53	38.13	86	61.87	139	100.00
%	51.46	-	45.74	-	-	-
Total	103	35.40	188	64.60	291	100.00
%	100.00	-	100.00	-	100.00	_

## CrossTable beer - sex with column and row percentages and Chi2 stat

NB: All variales are unquoted

```
ret <- crossTable(DF, beer, sex, both, chi2)</pre>
ret
       sex / beer
                       YES
                               %
                                             %
##
                                      NO
                                                Total
## 1
            Males
                        84 59.15
                                      58 40.85
                                                   142 100.00
                %
## 2
                     79.25
                                  35.15
## 3
          Females
                        22 17.05
                                     107 82.95
                                                   129 100.00
## 4
                     20.75
                                  64.85
                       106 39.11
                                     165 60.89
                                                  271 100.00
## 5
            Total
                                             - 100.00
## 6
                    100.00
                               - 100.00
## 7
## 8 Pearson CHI2 50.3078
                                       0
                              Pr
kable(ret, align="r", caption = "% rows and columns")
```

Table 5: % rows and columns

sex / beer	YES	%	NO	%	Total	%
Males	84	59.15	58	40.85	142	100.00
%	79.25	-	35.15	-	-	-
Females	22	17.05	107	82.95	129	100.00
%	20.75	-	64.85	-	-	-
Total	106	39.11	165	60.89	271	100.00
%	100.00	-	100.00	-	100.00	-
-	-	-	-	-	-	-
Pearson CHI2	50.3078	Pr	0	-	-	_

#### installed.packages()

```
##
                 Package
## assertthat
                 "assertthat"
                 "BiasedUrn"
## BiasedUrn
                 "bindr"
## bindr
## bindrcpp
                 "bindrcpp"
## classInt
                 "classInt"
                  "cli"
## cli
## colorspace
                 "colorspace"
                 "crayon"
## crayon
## devtools
                 "devtools"
                  "digest"
## digest
                  "dplyr"
## dplyr
## e1071
                  "e1071"
## epiR
                  "epiR"
                  "EpiStats"
## EpiStats
                  "fansi"
## fansi
                 "GADMTools"
## GADMTools
## geosphere
                  "geosphere"
## ggmap
                  "ggmap"
## glue
                  "glue"
## htmltools
                 "htmltools"
```

```
## jpeg
                  "jpeg"
## jsonlite
                  "jsonlite"
## lazyeval
                  "lazyeval"
                  "mapproj"
## mapproj
                  "maps"
## maps
## maptools
                  "maptools"
## munsell
                  "munsell"
## pillar
                  "pillar"
## plogr
                  "plogr"
                  "plyr"
## plyr
                  "png"
## png
                  "purrr"
## purrr
                  "R6"
## R6
                  "Rcpp"
## Rcpp
                  "reshape2"
## reshape2
                  "rgdal"
## rgdal
## rgeos
                  "rgeos"
## RgoogleMaps
                  "RgoogleMaps"
## rjson
                  "rjson"
                  "rlang"
## rlang
## scales
                  "scales"
## sp
                  "sp"
                  "spData"
## spData
## stringi
                  "stringi"
## tibble
                  "tibble"
## tidyselect
                  "tidyselect"
## utf8
                  "utf8"
## viridisLite
                  "viridisLite"
                  "withr"
## withr
                  "yaml"
## yaml
                  "abind"
## abind
## acepack
                  "acepack"
                  "assertthat"
## assertthat
                  "backports"
## backports
                  "base"
## base
                  "base64"
## base64
## base64enc
                  "base64enc"
## BH
                  "BH"
## BiasedUrn
                  "BiasedUrn"
## bindr
                  "bindr"
## bindrcpp
                  "bindrcpp"
                  "bitops"
## bitops
## boot
                  "boot"
## caTools
                  "caTools"
## chron
                  "chron"
                  "class"
## class
## classInt
                  "classInt"
## cluster
                  "cluster"
                  "codetools"
## codetools
                  "colorRamps"
## colorRamps
## colorspace
                  "colorspace"
## compiler
                  "compiler"
## curl
                  "curl"
## data.table
                  "data.table"
```

## datasets "datasets" ## DBT "DBT" ## deldir "deldir" ## devtools "devtools" ## dichromat "dichromat" ## digest "digest" ## dplyr "dplyr" "e1071" ## e1071 ## Epiconcepts "Epiconcepts" "epiR" ## epiR ## evaluate "evaluate" "expm" ## expm "fBasics" ## fBasics ## foreign "foreign" ## formatR "formatR" "Formula" ## Formula ## fracdiff "fracdiff" "GADMTools" ## GADMTools ## ggplot2 "ggplot2" "git2r" ## git2r ## glue "glue" ## goftest "goftest" "gpclib" ## gpclib ## graphics "graphics" ## grDevices "grDevices" ## grid "grid" "gridExtra" ## gridExtra "gss" ## gss ## gtable "gtable" ## highr "highr" "Hmisc" ## Hmisc ## htmlTable "htmlTable" ## htmltools "htmltools" ## httr "httr" "ISOweek" ## ISOweek ## jsonlite "jsonlite" ## KernSmooth "KernSmooth" ## knitr "knitr" "labeling" ## labeling ## lattice "lattice" ## latticeExtra "latticeExtra" "lazyeval" ## lazyeval ## lmtest "lmtest" ## lubridate "lubridate" ## magrittr "magrittr" "mapproj" ## mapproj "maps" ## maps ## maptools "maptools" ## markdown "markdown" ## MASS "MASS" ## Matrix "Matrix" "memoise" ## memoise ## methods "methods" ## mgcv "mgcv"

```
"mime"
## mime
                  "msm"
## msm
## munsell
                  "munsell"
## mvtnorm
                  "mvtnorm"
                  "nlme"
## nlme
## nnet
                  "nnet"
## openssl
                  "openssl"
## parallel
                  "parallel"
## pkgconfig
                  "pkgconfig"
                  "plogr"
## plogr
## plyr
                  "plyr"
                  "polyclip"
## polyclip
                  "polyCub"
## polyCub
                  "proto"
## proto
## quadprog
                  "quadprog"
                  "R6"
## R6
## RColorBrewer
                  "RColorBrewer"
## RcppArmadillo "RcppArmadillo"
## reshape2
                  "reshape2"
                  "rgdal"
## rgdal
## rgeos
                  "rgeos"
## rJava
                  "rJava"
## rmarkdown
                  "rmarkdown"
## rpart
                  "rpart"
## rprojroot
                  "rprojroot"
## RSclient
                  "RSclient"
## Rserve
                  "Rserve"
## RServerUtils
                  "RServerUtils"
                  "rstudioapi"
## rstudioapi
## scales
                  "scales"
                  "sp"
## sp
## spatial
                  "spatial"
                  "spatstat"
## spatstat
                  "splines"
## splines
                  "stabledist"
## stabledist
                  "stats"
## stats
## stats4
                  "stats4"
## stringi
                  "stringi"
## stringr
                  "stringr"
## surveillance
                  "surveillance"
## survival
                  "survival"
                  "tcltk"
## tcltk
## tensor
                  "tensor"
## tibble
                  "tibble"
## timeDate
                  "timeDate"
                  "timeSeries"
## timeSeries
## tools
                  "tools"
## utils
                  "utils"
                  "viridis"
## viridis
                  "whisker"
## whisker
## withr
                  "withr"
## xlsx
                  "xlsx"
## xlsxjars
                  "xlsxjars"
## xtable
                  "xtable"
```

```
## xts
                 "xts"
## yaml
                 "yaml"
                 "zoo"
## ZOO
##
                 LibPath
## assertthat
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
## BiasedUrn
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
## bindr
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
## bindrcpp
## classInt
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## cli
## colorspace
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## crayon
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## devtools
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## digest
## dplyr
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## e1071
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## epiR
## EpiStats
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
## fansi
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## GADMTools
## geosphere
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## ggmap
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## glue
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
## htmltools
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
## jpeg
## jsonlite
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
## lazyeval
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## mapproj
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## maps
## maptools
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## munsell
## pillar
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## plogr
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## plyr
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## png
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## purrr
## R6
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## Rcpp
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## reshape2
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## rgdal
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
## rgeos
## RgoogleMaps
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
## rjson
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## rlang
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## scales
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## sp
## spData
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## stringi
## tibble
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## tidyselect
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## utf8
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## viridisLite
## withr
                 "/home/kdo/R/x86_64-redhat-linux-gnu-library/3.5"
## yaml
                 "/home/kdo/R/x86 64-redhat-linux-gnu-library/3.5"
```

## abind "/usr/lib64/R/library" ## acepack "/usr/lib64/R/library" "/usr/lib64/R/library" ## assertthat "/usr/lib64/R/library" ## backports ## base "/usr/lib64/R/library" ## base64 "/usr/lib64/R/library" ## base64enc "/usr/lib64/R/library" "/usr/lib64/R/library" ## BH ## BiasedUrn "/usr/lib64/R/library" "/usr/lib64/R/library" ## bindr ## bindrcpp "/usr/lib64/R/library" "/usr/lib64/R/library" ## bitops "/usr/lib64/R/library" ## boot ## caTools "/usr/lib64/R/library" ## chron "/usr/lib64/R/library" ## class "/usr/lib64/R/library" "/usr/lib64/R/library" ## classInt ## cluster "/usr/lib64/R/library" ## codetools "/usr/lib64/R/library" ## colorRamps "/usr/lib64/R/library" ## colorspace "/usr/lib64/R/library" ## compiler "/usr/lib64/R/library" ## curl "/usr/lib64/R/library" ## data.table "/usr/lib64/R/library" "/usr/lib64/R/library" ## datasets ## DBI "/usr/lib64/R/library" "/usr/lib64/R/library" ## deldir "/usr/lib64/R/library" ## devtools "/usr/lib64/R/library" ## dichromat ## digest "/usr/lib64/R/library" "/usr/lib64/R/library" ## dplyr ## e1071 "/usr/lib64/R/library" ## Epiconcepts "/usr/lib64/R/library" "/usr/lib64/R/library" ## epiR "/usr/lib64/R/library" ## evaluate "/usr/lib64/R/library" ## expm ## fBasics "/usr/lib64/R/library" ## foreign "/usr/lib64/R/library" ## formatR "/usr/lib64/R/library" ## Formula "/usr/lib64/R/library" ## fracdiff "/usr/lib64/R/library" ## GADMTools "/usr/lib64/R/library" "/usr/lib64/R/library" ## ggplot2 "/usr/lib64/R/library" ## git2r "/usr/lib64/R/library" ## glue "/usr/lib64/R/library" ## goftest "/usr/lib64/R/library" ## gpclib "/usr/lib64/R/library" ## graphics ## grDevices "/usr/lib64/R/library" "/usr/lib64/R/library" ## grid "/usr/lib64/R/library" ## gridExtra "/usr/lib64/R/library" ## gss ## gtable "/usr/lib64/R/library" ## highr "/usr/lib64/R/library"

```
## Hmisc
                  "/usr/lib64/R/library"
## htmlTable
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## htmltools
## httr
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## ISOweek
## jsonlite
                  "/usr/lib64/R/library"
## KernSmooth
                  "/usr/lib64/R/library"
## knitr
                  "/usr/lib64/R/library"
## labeling
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## lattice
## latticeExtra
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## lazveval
                  "/usr/lib64/R/library"
## lmtest
## lubridate
                  "/usr/lib64/R/library"
## magrittr
                  "/usr/lib64/R/library"
## mapproj
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## maps
                  "/usr/lib64/R/library"
## maptools
## markdown
                  "/usr/lib64/R/library"
## MASS
                  "/usr/lib64/R/library"
## Matrix
                  "/usr/lib64/R/library"
## memoise
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## methods
## mgcv
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## mime
## msm
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## munsell
                  "/usr/lib64/R/library"
## mvtnorm
                  "/usr/lib64/R/library"
## nlme
                  "/usr/lib64/R/library"
## nnet
                  "/usr/lib64/R/library"
## openssl
## parallel
                  "/usr/lib64/R/library"
## pkgconfig
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## plogr
                  "/usr/lib64/R/library"
## plyr
                  "/usr/lib64/R/library"
## polyclip
## polyCub
                  "/usr/lib64/R/library"
## proto
                  "/usr/lib64/R/library"
## quadprog
                  "/usr/lib64/R/library"
## R6
                  "/usr/lib64/R/library"
## RColorBrewer
                  "/usr/lib64/R/library"
## RcppArmadillo
                 "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## reshape2
                  "/usr/lib64/R/library"
## rgdal
                  "/usr/lib64/R/library"
## rgeos
                  "/usr/lib64/R/library"
## rJava
                  "/usr/lib64/R/library"
## rmarkdown
                  "/usr/lib64/R/library"
## rpart
## rprojroot
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## RSclient
## Rserve
                  "/usr/lib64/R/library"
## RServerUtils
                  "/usr/lib64/R/library"
## rstudioapi
                  "/usr/lib64/R/library"
## scales
                  "/usr/lib64/R/library"
```

```
## sp
                  "/usr/lib64/R/library"
## spatial
                  "/usr/lib64/R/library"
## spatstat
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## splines
                  "/usr/lib64/R/library"
## stabledist
## stats
                  "/usr/lib64/R/library"
## stats4
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## stringi
## stringr
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## surveillance
## survival
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## tcltk
                  "/usr/lib64/R/library"
## tensor
## tibble
                  "/usr/lib64/R/library"
## timeDate
                  "/usr/lib64/R/library"
## timeSeries
                  "/usr/lib64/R/library"
## tools
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## utils
## viridis
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## whisker
## withr
                  "/usr/lib64/R/library"
## xlsx
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## xlsxjars
## xtable
                  "/usr/lib64/R/library"
## xts
                  "/usr/lib64/R/library"
## yaml
                  "/usr/lib64/R/library"
                  "/usr/lib64/R/library"
## zoo
                  Version
                                 Priority
                  "0.2.0"
## assertthat
                                 NA
                  "1.07"
## BiasedUrn
                                 NA
## bindr
                  "0.1.1"
                                 NA
## bindrcpp
                  "0.2.2"
                                 NA
                  "0.2-3"
## classInt
                                 NA
## cli
                  "1.0.1"
                                 NA
                  "1.3-2"
## colorspace
                                 NA
                  "1.3.4"
                                 NA
## crayon
## devtools
                  "1.13.6"
                                 NA
## digest
                  "0.6.17"
                                 NΑ
## dplyr
                  "0.7.6"
                                 NA
                  "1.7-0"
                                 NA
## e1071
## epiR
                  "0.9-97"
                                 NA
## EpiStats
                  "1.2"
                                 NΑ
                  "0.3.0"
                                 NA
## fansi
## GADMTools
                  "2.2-2"
                                 NA
## geosphere
                  "1.5-7"
                                 NA
                  "2.6.1"
                                 NA
## ggmap
                  "1.3.0"
                                 NA
  glue
## htmltools
                  "0.3.6"
                                 NA
  jpeg
                  "0.1-8"
                                 NA
                  "1.5"
   jsonlite
                                 NA
## lazyeval
                  "0.2.1"
                                 NA
                  "1.2.6"
## mapproj
                                 NA
## maps
                  "3.3.0"
                                 NA
                  "0.9-4"
## maptools
                                 NA
```

```
## munsell
                  "0.5.0"
                                 NA
## pillar
                  "1.3.0"
                                 NΑ
## plogr
                  "0.2.0"
                                 NA
                  "1.8.4"
                                 NA
## plyr
## png
                  "0.1-7"
                                 NA
                  "0.2.5"
                                 NA
## purrr
## R6
                  "2.2.2"
                                 NA
                  "0.12.18"
                                 NA
## Rcpp
## reshape2
                  "1.4.3"
                                 NA
                  "1.3-4"
                                 NA
## rgdal
## rgeos
                  "0.3-28"
                                 NA
                  "1.4.2"
## RgoogleMaps
                                 NA
                  "0.2.20"
## rjson
                                 NA
                  "0.2.2"
## rlang
                                 NA
## scales
                  "1.0.0"
                                 NA
## sp
                  "1.3-1"
                                 NA
                  "0.2.9.4"
                                 NA
## spData
                  "1.2.4"
## stringi
                                 NA
## tibble
                  "1.4.2"
                                 NA
## tidyselect
                  "0.2.4"
                                 NA
## utf8
                  "1.1.4"
                                 NA
## viridisLite
                  "0.3.0"
                                 NA
## withr
                  "2.1.2"
                                 NA
## yaml
                  "2.2.0"
                                 NA
## abind
                  "1.4-5"
                                 NA
## acepack
                  "1.4.1"
                                 NA
## assertthat
                  "0.1"
                                 NA
                  "1.0.4"
## backports
                                 NA
                  "3.5.0"
                                  "base"
## base
                  "2.0"
## base64
                                 NA
                  "0.1-3"
## base64enc
                                 NA
## BH
                  "1.62.0-1"
                                 NA
## BiasedUrn
                  "1.07"
                                 NA
## bindr
                  "0.1"
                                 NA
                  "0.2"
## bindrcpp
                                 NA
## bitops
                  "1.0-6"
                                 NA
## boot
                  "1.3-20"
                                 "recommended"
## caTools
                  "1.17.1"
                                 NA
## chron
                  "2.3-48"
                                 NA
## class
                                  "recommended"
                  "7.3-14"
## classInt
                  "0.1-24"
                  "2.0.7-1"
## cluster
                                  "recommended"
## codetools
                  "0.2-15"
                                  "recommended"
                  "2.3"
## colorRamps
                                 NA
## colorspace
                  "1.3-2"
                                 NA
                  "3.5.0"
                                  "base"
## compiler
                  "2.3"
## curl
                                 NA
## data.table
                  "1.10.4"
                                 NA
                  "3.5.0"
## datasets
                                  "base"
                  "0.5-1"
## DBI
                                 NA
## deldir
                  "0.1-12"
                                 NA
## devtools
                  "1.12.0"
                                 NA
## dichromat
                  "2.0-0"
                                 NA
## digest
                  "0.6.10"
                                 NA
```

```
"0.7.2"
## dplyr
                                 NA
## e1071
                  "1.6-7"
                                 NΑ
## Epiconcepts
                  "0.3"
                                 NA
                  "0.9-87"
## epiR
                                 NA
## evaluate
                  "0.10"
                                 NA
                  "0.999-0"
                                 NA
## expm
## fBasics
                  "3011.87"
                                 NA
                  "0.8-70"
                                  "recommended"
## foreign
## formatR
                  "1.4"
                                 NA
                  "1.2-1"
## Formula
                                 NA
## fracdiff
                  "1.4-2"
                                 NA
                  "1.1.3"
## GADMTools
                                 NA
                  "2.2.1"
## ggplot2
                                 NA
                  "0.16.0"
## git2r
                                 NA
                  "1.1.1"
                                 NA
## glue
## goftest
                  "1.0-3"
                                 NA
                  "1.5-5"
                                 NA
## gpclib
## graphics
                  "3.5.0"
                                  "base"
## grDevices
                  "3.5.0"
                                  "base"
## grid
                  "3.5.0"
                                  "base"
## gridExtra
                  "2.2.1"
                                 NA
## gss
                  "2.1-6"
                                 NA
                  "0.2.0"
## gtable
                                 NA
## highr
                  "0.6"
                                 NA
                  "4.0-3"
                                 NA
## Hmisc
## htmlTable
                  "1.7"
                                 NA
## htmltools
                  "0.3.5"
                                 NA
                  "1.2.1"
                                 NA
## httr
## ISOweek
                  "0.6-2"
                                 NA
                  "1.5"
## jsonlite
                                 NA
                  "2.23-15"
## KernSmooth
                                  "recommended"
## knitr
                  "1.15.1"
                                 NA
                  "0.3"
## labeling
                                 NA
                  "0.20-35"
                                  "recommended"
## lattice
## latticeExtra
                  "0.6-28"
                                 NA
## lazyeval
                  "0.2.0"
                                 NA
## lmtest
                  "0.9-35"
                                 NA
## lubridate
                  "1.6.0"
                                 NA
## magrittr
                  "1.5"
                                 NA
                                 NA
                  "1.2-5"
## mapproj
                  "3.1.1"
                                 NA
## maps
## maptools
                  "0.9-2"
                                 NA
## markdown
                  "0.8"
                                 NA
## MASS
                  "7.3-49"
                                  "recommended"
## Matrix
                  "1.2-14"
                                  "recommended"
                  "1.0.0"
## memoise
                                 NA
                  "3.5.0"
                                  "base"
## methods
                  "1.8-23"
                                  "recommended"
## mgcv
                  "0.5"
## mime
                                 NA
                  "1.6.4"
## msm
                                 NA
## munsell
                  "0.4.3"
                                 NA
                  "1.0-5"
## mvtnorm
                                 NA
## nlme
                  "3.1-137"
                                  "recommended"
                  "7.3-12"
## nnet
                                  "recommended"
```

```
## openssl
                  "0.9.5"
                                 NA
## parallel
                  "3.5.0"
                                  "base"
## pkgconfig
                  "2.0.1"
                                 NA
                  "0.1-1"
                                 NA
## plogr
## plyr
                  "1.8.4"
                                 NA
## polyclip
                  "1.5-6"
                                 NA
## polyCub
                  "0.6.0"
                                 NA
                  "1.0.0"
                                 NA
## proto
                  "1.5-5"
## quadprog
                                 NA
## R6
                  "2.2.0"
                                 NA
## RColorBrewer
                  "1.1-2"
                                 NA
## RcppArmadillo "0.7.500.0.0"
                                 NA
                  "1.4.2"
## reshape2
                                 NA
                  "1.2-5"
## rgdal
                                 NA
## rgeos
                  "0.3-21"
                                 NA
                  "0.9-8"
## rJava
                                 NA
## rmarkdown
                  "1.2"
                                 NA
## rpart
                  "4.1-13"
                                 "recommended"
## rprojroot
                  "1.1"
                                 NA
                  "0.7-3"
## RSclient
                                 NA
## Rserve
                  "1.7-3"
                                 NA
## RServerUtils
                  "1.0"
                                 NA
## rstudioapi
                                 NA
                  "0.6"
## scales
                  "0.4.1"
                                 NA
## sp
                  "1.2-3"
                                 NA
## spatial
                  "7.3-11"
                                 "recommended"
## spatstat
                  "1.47-0"
                                 NA
                  "3.5.0"
                                  "base"
## splines
                  "0.7-1"
## stabledist
                                 NA
## stats
                  "3.5.0"
                                  "base"
                                 "base"
                  "3.5.0"
## stats4
## stringi
                  "1.1.2"
                                 NA
                  "1.2.0"
## stringr
                                 NA
## surveillance
                  "1.12.2"
                                 NA
                  "2.41-3"
                                 "recommended"
## survival
## tcltk
                  "3.5.0"
                                  "base"
## tensor
                  "1.5"
                                 NA
## tibble
                  "1.3.3"
                                 NA
## timeDate
                  "3012.100"
                                 NA
## timeSeries
                  "3022.101.2"
                                 NA
## tools
                  "3.5.0"
                                  "base"
                  "3.5.0"
                                 "base"
## utils
## viridis
                  "0.3.4"
                                 NA
## whisker
                  "0.3-2"
                                 NA
## withr
                  "1.0.2"
                                 NA
                  "0.5.7"
                                 NA
## xlsx
                  "0.6.1"
                                 NA
## xlsxjars
## xtable
                  "1.8-2"
                                 NA
## xts
                  "0.10-0"
                                 NA
                  "2.1.14"
## yaml
                                 NA
## zoo
                  "1.7-13"
                                 NA
##
                  Depends
## assertthat
                  NA
## BiasedUrn
                  NA
```

```
## bindr
                 NA
## bindrcpp
                 NΑ
## classInt
                 "R (>= 2.2), spData (>= 0.2.6.2)"
## cli
                 "R (>= 2.10)"
## colorspace
                 "R (>= 2.13.0), methods"
## crayon
                 NA
## devtools
                 "R (>= 3.0.2)"
                 "R (>= 3.1.0)"
## digest
## dplyr
                 "R (>= 3.1.2)"
## e1071
                 NA
## epiR
                 "R (>= 3.0.0), survival"
                  "epiR, dplyr"
## EpiStats
                  "R (>= 3.1.0)"
## fansi
## GADMTools
                 "sp, ggplot2, dplyr, classInt, rgdal"
## geosphere
                 "R (>= 3.0.0)"
                 "R (>= 2.14.0), ggplot2 (>= 2.0.0)"
## ggmap
                 "R (>= 3.1)"
## glue
                 "R (>= 2.14.1)"
## htmltools
                 "R (>= 2.9.0)"
## jpeg
                 "methods"
## jsonlite
## lazyeval
                 "R (>= 3.1.0)"
## mapproj
                 "R (>= 3.0.0), maps (>= 2.3-0)"
                 "R (>= 3.0.0)"
## maps
## maptools
                 "R (>= 2.10), sp (>= 1.0-11)"
## munsell
                 NA
## pillar
                 NA
## plogr
                 NA
                 "R (>= 3.1.0)"
## plyr
                 "R (>= 2.9.0)"
## png
                 "R (>= 3.1)"
## purrr
                 "R (>= 3.0)"
## R6
## Rcpp
                 "R (>= 3.0.0)"
                 "R (>= 3.1)"
## reshape2
                 "R (>= 3.3.0), methods, sp (>= 1.1-0)"
## rgdal
                 "R (>= 3.3.0)"
## rgeos
                 "R (>= 2.10)"
## RgoogleMaps
## rjson
                 "R (>= 3.1.0)"
## rlang
                 "R (>= 3.1.0)"
                 "R (>= 3.1)"
## scales
                 "R (>= 3.0.0), methods"
## sp
                 "R (>= 3.3.0)"
## spData
                 "R (>= 2.14)"
## stringi
## tibble
                 "R (>= 3.1.0)"
                 "R (>= 3.1)"
## tidyselect
## utf8
                 "R (>= 2.10)"
                 "R (>= 2.10)"
## viridisLite
                 "R (>= 3.0.2)"
## withr
## yaml
                 NA
                 "R (>= 1.5.0)"
## abind
## acepack
                 NA
## assertthat
                 NA
                 "R (>= 3.0.0)"
## backports
## base
                 NA
## base64
                 NA
```

```
"R (>= 2.9.0)"
## base64enc
## BH
                 NΑ
## BiasedUrn
                 NA
## bindr
                 NA
## bindrcpp
                 NA
## bitops
                 NA
## boot
                 "R (>= 3.0.0), graphics, stats"
                 "R (>= 2.2.0)"
## caTools
## chron
                 "R (>= 2.12.0)"
                 "R (>= 3.0.0), stats, utils"
## class
## classInt
                 "R (>= 2.2)"
                 "R (>= 3.2.0)"
## cluster
                 "R (>= 2.1)"
## codetools
## colorRamps
                 NA
## colorspace
                 "R (>= 2.13.0), methods"
## compiler
## curl
                 "R (>= 3.0.0)"
                 "R (>= 3.0.0)"
## data.table
## datasets
                 NA
                 "R (>= 2.15.0), methods"
## DBI
## deldir
                 "R (>= 0.99)"
## devtools
                 "R (>= 3.0.2)"
## dichromat
                 "R (>= 2.10), stats"
## digest
                 "R (>= 2.4.1)"
                 "R (>= 3.1.2)"
## dplyr
## e1071
## Epiconcepts
                 "methods, ggplot2, plyr, fBasics,gridExtra,jsonlite"
                 "R (>= 3.0.0), survival"
## epiR
                 "R (>= 3.0.2)"
## evaluate
                 "Matrix"
## expm
                 "R (>= 2.15.1), timeDate, timeSeries"
## fBasics
## foreign
                 "R (>= 3.0.0)"
                 "R (>= 3.0.2)"
## formatR
                 "R (>= 2.0.0), stats"
## Formula
## fracdiff
                 NA
## GADMTools
                 NA
## ggplot2
                 "R (>= 3.1)"
## git2r
                 "R (>= 3.0.2), methods"
                 "R (>= 3.0.0)"
## glue
                 "R (>= 3.1)"
## goftest
## gpclib
                 "R (>= 2.14.0), methods"
## graphics
                 NA
## grDevices
                 NA
## grid
                 NA
## gridExtra
                 NA
                 "R (>= 2.14.0), stats"
## gss
                 "R (>= 2.14)"
## gtable
                 "R (>= 3.0.2)"
## highr
                 "lattice, survival (>= 2.40-1), Formula, ggplot2 (>= 2.2)"
## Hmisc
## htmlTable
                 "R (>= 2.14.1)"
## htmltools
                 "R (>= 3.0.0)"
## httr
## ISOweek
                 NA
## jsonlite
                 "methods"
```

```
## KernSmooth
                 "R (>= 2.5.0), stats"
                 "R (>= 3.1.0)"
## knitr
## labeling
                 "R (>= 3.0.0)"
## lattice
## latticeExtra "R (>= 2.10.0), lattice, RColorBrewer"
                 "R (>= 3.1.0)"
## lazyeval
## lmtest
                 "R (>= 2.10.0), stats, zoo"
                 "methods, R (>= 3.0.0)"
## lubridate
## magrittr
                 NA
                 "maps (>= 2.3-0)"
## mapproj
## maps
                 "R (>= 2.14.0)"
                 "R (>= 2.10), sp (>= 1.0-11)"
## maptools
                 "R (>= 2.11.1)"
## markdown
                 "R (>= 3.1.0), grDevices, graphics, stats, utils"
## MASS
## Matrix
                 "R (>= 3.2.0)"
## memoise
                 NA
## methods
                 NA
## mgcv
                 "R (>= 2.14.0), nlme (>= 3.1-64)"
## mime
                 NA
## msm
                 NA
## munsell
                 NΑ
## mvtnorm
                 "R(>= 1.9.0)"
                 "R (>= 3.4.0)"
## nlme
## nnet
                 "R (>= 2.14.0), stats, utils"
## openssl
                 NA
## parallel
                 NA
## pkgconfig
                 NA
## plogr
                 NA
                 "R (>= 3.1.0)"
## plyr
                 "R (>= 3.0.0)"
## polyclip
                 "R (>= 2.15.0), methods, sp"
## polyCub
## proto
                 NA
                 "R (>= 2.15.0)"
## quadprog
## R6
                 "R (>= 3.0)"
                 "R (>= 2.0.0)"
## RColorBrewer
## RcppArmadillo NA
## reshape2
## rgdal
                 "R (>= 2.14.0), methods, sp (>= 1.1-0)"
                 "R (>= 2.14.0)"
## rgeos
                 "R (>= 2.5.0), methods"
## rJava
## rmarkdown
                 "R (>= 3.0)"
                 "R (>= 2.15.0), graphics, stats, grDevices"
## rpart
                 "R (>= 3.0.0)"
## rprojroot
                 "R (>= 2.7.0)"
## RSclient
## Rserve
                 "R (>= 1.5.0)"
## RServerUtils
                 NA
## rstudioapi
                 NA
                 "R (>= 2.13)"
## scales
                 "R (>= 3.0.0), methods"
## sp
                 "R (>= 3.0.0), graphics, stats, utils"
## spatial
                 "R (>= 3.3.0), stats, graphics, grDevices, utils, methods,\nnlme, rpart"
## spatstat
## splines
## stabledist
                 "R (>= 3.1.0)"
## stats
                 NA
```

```
## stats4
                 NA
                 "R (>= 2.13.1)"
## stringi
## stringr
                 "R (>= 2.14)"
                 "R (>= 3.2.0), methods, grDevices, graphics, stats, utils, sp\n(>= 1.0-15), xtable (>=
## surveillance
## survival
                 "R (>= 2.13.0)"
## tcltk
                 NA
## tensor
                 NA
                 "R (>= 3.1.0)"
## tibble
## timeDate
                 "R (>= 2.15.1), graphics, utils, stats, methods"
## timeSeries
                 "R (>= 2.10), graphics, grDevices, stats, methods, utils,\ntimeDate (>= 2150.95)"
## tools
                 NA
## utils
                 NA
                 "R (>= 2.10)"
## viridis
## whisker
                 NA
## withr
                 "R (>= 3.0.2)"
## xlsx
                 "rJava, xlsxjars"
                 "rJava"
## xlsxjars
## xtable
                 "R (>= 2.10.0)"
                 "zoo (>= 1.7-12)"
## xts
## yaml
## zoo
                 "R (>= 2.10.0), stats"
                 Imports
##
                 "tools"
## assertthat
## BiasedUrn
                 NΑ
## bindr
                 NΑ
## bindrcpp
                 "bindr (>= 0.1.1), Rcpp (>= 0.12.16)"
## classInt
                 "grDevices, stats, graphics, e1071, class"
## cli
                 "assertthat, crayon (>= 1.3.4), methods, utils"
                 "graphics, grDevices"
## colorspace
## crayon
                 "grDevices, methods, utils"
## devtools
                 "httr (>= 0.4), utils, tools, methods, memoise (>= 1.0.0),\nwhisker, digest, rstudioap
## digest
## dplyr
                 "assertthat (>= 0.2.0), bindrcpp (>= 0.2.0.9000), glue (>=\n1.1.1), magrittr (>= 1.5),
                 "graphics, grDevices, class, stats, methods, utils"
## e1071
                 "BiasedUrn, methods"
## epiR
## EpiStats
                 NA
## fansi
## GADMTools
                 "RColorBrewer, maptools, stringr, lattice, jsonlite, gridExtra,\nrgeos, ggmap"
## geosphere
                 "proto, RgoogleMaps, png, plyr, reshape2, rjson, mapproj, jpeg,\ngeosphere, digest, sc
## ggmap
                 "methods"
## glue
## htmltools
                 "utils, digest, Rcpp"
## jpeg
                 NA
                 NA
## jsonlite
## lazyeval
                 NA
                 "stats, graphics"
## mapproj
## maps
                 "graphics, utils"
                 "foreign (>= 0.8), methods, grid, lattice, stats, utils, \ngrDevices"
## maptools
## munsell
                 "colorspace, methods"
                 "cli (>= 1.0.0), crayon (>= 1.3.4), fansi, methods, rlang (>=\n0.2.0), utf8 (>= 1.1.3)
## pillar
## plogr
## plyr
                 "Rcpp (>= 0.11.0)"
## png
## purrr
                 "magrittr (>= 1.5), rlang (>= 0.1), tibble"
```

```
## R6
## Rcpp
                 "methods, utils"
## reshape2
                 "plyr (>= 1.8.1), Rcpp, stringr"
                 "grDevices, graphics, stats, utils"
## rgdal
## rgeos
                 "methods, sp (>= 1.1-0), utils, stats, graphics"
                 "graphics, stats, utils, grDevices, methods, png"
## RgoogleMaps
## rjson
                 NA
## rlang
                 NA
## scales
                 "labeling, munsell (>= 0.5), R6, RColorBrewer, Rcpp,\nviridisLite"
                 "utils, stats, graphics, grDevices, lattice, grid"
## sp
## spData
                 "tools, utils, stats"
## stringi
## tibble
                 "cli, crayon, methods, pillar (>= 1.1.0), rlang, utils"
## tidyselect
                 "glue, purrr, rlang (>= 0.2.0), Rcpp (>= 0.12.0)"
## utf8
## viridisLite
                 "stats, graphics, grDevices"
## withr
## yaml
## abind
                 "methods, utils"
## acepack
                 NA
## assertthat
                 MΔ
## backports
                 NA
                 NA
## base
## base64
                 "openssl"
## base64enc
                 NA
## BH
                 NA
## BiasedUrn
                 NA
## bindr
                 NA
## bindrcpp
                 "Rcpp, bindr"
## bitops
                 NA
## boot
                 NA
## caTools
                 "bitops"
                 "graphics, stats"
## chron
                 "MASS"
## class
## classInt
                 "grDevices, stats, graphics, e1071, class"
## cluster
                 "graphics, grDevices, stats, utils"
## codetools
                 NA
## colorRamps
## colorspace
                 "graphics, grDevices"
## compiler
                 NA
## curl
                 NA
## data.table
                 "methods"
## datasets
## DBI
                 NA
## deldir
                 "graphics, grDevices"
                 "httr (>= 0.4), utils, tools, methods, memoise (>= 1.0.0),\nwhisker, digest, rstudioap
## devtools
## dichromat
                 NA
## digest
                 NA
## dplyr
                 "assertthat, bindrcpp (>= 0.2), glue (>= 1.1.0), magrittr,\nmethods, pkgconfig, rlang
                 "graphics, grDevices, class, stats, methods, utils"
## e1071
                 "xtable, grid, epiR, fBasics, boot"
## Epiconcepts
                 "BiasedUrn, methods"
## epiR
## evaluate
                 "methods, stringr (>= 0.6.2)"
                 "methods"
## expm
```

```
"gss, stabledist, MASS"
## fBasics
## foreign
                 "methods, utils, stats"
## formatR
## Formula
                 NΑ
## fracdiff
## GADMTools
                 "\nggplot2,\ngridExtra,\ndplyr,\nRColorBrewer,\nclassInt,\nsp,\nrgdal,\nmaptools,\nrge
## ggplot2
                 "digest, grid, gtable (>= 0.1.1), MASS, plyr (>= 1.7.1),\nreshape2, scales (>= 0.4.1),
                 "graphics, utils"
## git2r
## glue
                 "methods"
                 "stats"
## goftest
## gpclib
                 "graphics"
                 "grDevices"
## graphics
## grDevices
                 "grDevices, utils"
## grid
## gridExtra
                 "gtable, grid, grDevices, graphics, utils"
## gss
                 "grid"
## gtable
## highr
                 NA
## Hmisc
                 "methods, latticeExtra, cluster, rpart, nnet, acepack, foreign, \ngtable, grid, gridExt
## htmlTable
                 "stringr, knitr (>= 1.6), magrittr (>= 1.5), methods"
## htmltools
                 "utils, digest, Rcpp"
## httr
                 "jsonlite, mime, curl (>= 0.9.1), openssl (>= 0.8), R6"
                 "stringr"
## ISOweek
## jsonlite
## KernSmooth
                 NA
## knitr
                 "evaluate (>= 0.10), digest, highr, markdown, stringr (>= 0.6), \nyaml, methods, tools"
## labeling
## lattice
                 "grid, grDevices, graphics, stats, utils"
                 "grid, stats, utils, grDevices"
## latticeExtra
## lazyeval
                 NA
## lmtest
                 "graphics"
## lubridate
                 "stringr"
## magrittr
                 NA
                 "stats, graphics"
## mapproj
                 "graphics, utils"
## maps
## maptools
                 "foreign (>= 0.8), methods, grid, lattice, stats, utils, \ngrDevices"
## markdown
                 "utils, mime (>= 0.3)"
## MASS
                 "methods"
## Matrix
                 "methods, graphics, grid, stats, utils, lattice"
## memoise
                 "digest (>= 0.6.3)"
## methods
                 "utils, stats"
## mgcv
                 "methods, stats, graphics, Matrix"
                 "tools"
## mime
                 "survival, mvtnorm, expm"
## msm
                 "colorspace, methods"
## munsell
                 "stats, methods"
## mvtnorm
                 "graphics, stats, utils, lattice"
## nlme
## nnet
                 NA
## openssl
                 NΑ
                 "tools, compiler"
## parallel
                 "utils"
## pkgconfig
## plogr
## plyr
                 "Rcpp (>= 0.11.0)"
```

## polyclip

NA

```
## polyCub
                 "grDevices, graphics, stats, spatstat"
## proto
                 NA
## quadprog
                 NA
## R6
                 NΑ
## RColorBrewer
## RcppArmadillo "Rcpp (>= 0.11.0), stats, utils"
## reshape2
                 "plyr (>= 1.8.1), stringr, Rcpp"
                 "grDevices, graphics, stats, utils"
## rgdal
## rgeos
                 "methods, sp (>= 1.1-0), utils, stats, graphics"
## rJava
## rmarkdown
                 "tools, utils, grDevices, knitr (>= 1.14), yaml (>= 2.1.5),\nhtmltools (>= 0.3.5), caT
## rpart
                 NA
                 "backports"
## rprojroot
## RSclient
                 NA
## Rserve
                 NA
## RServerUtils
                 NA
## rstudioapi
## scales
                 "RColorBrewer, dichromat, plyr, munsell (>= 0.2), labeling, \nmethods, Rcpp"
                 "utils, stats, graphics, grDevices, lattice, grid"
## sp
## spatial
## spatstat
                 "mgcv, Matrix, deldir (>= 0.0-21), abind, tensor, polyclip (>=\n1.5-0), goftest"
## splines
                 "graphics, stats"
                 "stats"
## stabledist
## stats
                 "utils, grDevices, graphics"
## stats4
                 "graphics, methods, stats"
## stringi
                 "tools, utils, stats"
## stringr
                 "stringi (>= 0.4.1), magrittr"
                 "Rcpp (>= 0.11.1), MASS, Matrix, nlme, spatstat (>= 1.36-0)"
## surveillance
## survival
                 "graphics, Matrix, methods, splines, stats, utils"
## tcltk
                 "utils"
## tensor
## tibble
                 "methods, rlang, Rcpp (>= 0.12.3), utils"
## timeDate
                 NA
## timeSeries
                 NA
## tools
                 NA
## utils
                 NA
## viridis
                 "stats, grDevices, ggplot2 (>= 1.0.1), gridExtra"
## whisker
## withr
                 "stats, graphics"
## xlsx
                 NA
## xlsxjars
## xtable
                 "stats, utils"
                 "methods"
## xts
## yaml
                 "utils, graphics, grDevices, lattice (>= 0.20-27)"
## zoo
##
                 LinkingTo
## assertthat
                 NA
## BiasedUrn
                 NA
## bindr
                 NA
## bindrcpp
                 "plogr, Rcpp"
## classInt
                 NA
## cli
                 NA
## colorspace
                 NA
## crayon
                 NA
```

```
## devtools
                  NA
## digest
                  NA
                  "BH (>= 1.58.0-1), bindrcpp (>= 0.2.0.9000), plogr (>=\n0.1.10), Rcpp (>= 0.12.15)"
## dplyr
## e1071
## epiR
                  NA
## EpiStats
                  NA
## fansi
                  NA
## GADMTools
                  NA
## geosphere
                  NA
                  NA
## ggmap
## glue
                  NA
## htmltools
                  "Rcpp"
                  NA
## jpeg
## jsonlite
                  NA
## lazyeval
                  NA
## mapproj
                  NA
## maps
                  NA
## maptools
                  NA
## munsell
                  NA
## pillar
                  NA
## plogr
                  NA
## plyr
                  "Rcpp"
## png
                  NA
## purrr
                  NA
## R6
                  NA
## Rcpp
                  NA
## reshape2
                  "Rcpp"
## rgdal
                  "sp"
                  "sp"
## rgeos
## RgoogleMaps
                  NA
## rjson
                  NA
## rlang
                  NA
## scales
                  "Rcpp"
## sp
                  NA
## spData
                  NA
## stringi
                  NA
## tibble
## tidyselect
                  "Rcpp (>= 0.12.0),"
## utf8
## viridisLite
                  NA
## withr
                  NA
                  NA
## yaml
## abind
                  NA
## acepack
                  NA
## assertthat
                  NA
## backports
                  NA
## base
                  NA
## base64
                  NA
## base64enc
                  NA
## BH
                  NA
## BiasedUrn
                  NA
## bindr
                  NA
## bindrcpp
                  "Rcpp, plogr"
## bitops
                  NA
```

```
## boot
                  NA
## caTools
                  NA
## chron
                  NA
## class
                  NA
## classInt
                  NA
## cluster
                  NA
## codetools
                  NA
## colorRamps
                  NA
## colorspace
                  NA
## compiler
                  NA
## curl
                  NA
## data.table
                  NA
## datasets
                  NA
## DBI
                  NA
## deldir
                  NA
## devtools
                  NA
## dichromat
                  NA
## digest
                  NA
                  "Rcpp (>= 0.12.0), BH (>= 1.58.0-1), bindrcpp, plogr"
## dplyr
## e1071
## Epiconcepts
                  NA
## epiR
                  NA
## evaluate
                  NA
## expm
                  NA
## fBasics
                  NA
## foreign
                  NA
## formatR
                  NA
## Formula
                  NA
## fracdiff
                  NA
## GADMTools
                  NA
## ggplot2
                  NA
## git2r
                  NA
## glue
                  NA
## goftest
                  NA
## gpclib
                  NA
## graphics
                  NA
## grDevices
                  NA
## grid
                  NA
## gridExtra
                  NA
                  NA
## gss
## gtable
                  NA
## highr
                  NA
## Hmisc
                  NA
## htmlTable
                  NA
## htmltools
                  "Rcpp"
## httr
                  NA
## ISOweek
                  NA
## jsonlite
                  NA
## KernSmooth
                  NA
## knitr
                  NA
## labeling
                  NA
## lattice
                  NA
## latticeExtra
                 NA
## lazyeval
                  NA
```

```
## lmtest
                  NA
## lubridate
                  NA
## magrittr
                  NA
## mapproj
                  NA
## maps
                  NA
## maptools
                  NA
## markdown
                  NA
## MASS
                  NA
## Matrix
                  NA
## memoise
                  NA
## methods
                  NA
                  NA
## mgcv
## mime
                  NA
## msm
                  NA
## munsell
                  NA
## mvtnorm
                  NA
## nlme
                  NA
## nnet
                  NA
## openssl
                  NA
## parallel
                  NA
## pkgconfig
                  NA
## plogr
                  NA
                  "Rcpp"
## plyr
## polyclip
                  NA
## polyCub
                  NA
## proto
                  NA
## quadprog
                  NA
## R6
                  NA
## RColorBrewer
                  NA
## RcppArmadillo "Rcpp"
                  "Rcpp"
## reshape2
## rgdal
                  "sp"
                  "sp"
## rgeos
## rJava
                  NA
## rmarkdown
                  NA
## rpart
                  NA
## rprojroot
                  NA
## RSclient
                  NA
## Rserve
                  NA
## RServerUtils
                  NA
## rstudioapi
                  NA
                  "Rcpp"
## scales
## sp
                  NA
## spatial
                  NA
## spatstat
                  NA
## splines
                  NA
## stabledist
                  NA
## stats
                  NA
## stats4
                  NA
                  NA
## stringi
## stringr
                  NA
## surveillance
                  "Rcpp"
## survival
                  NA
## tcltk
                  NA
```

```
## tensor
                 NA
## tibble
                 "Rcpp"
## timeDate
                 NA
## timeSeries
                 NΑ
## tools
                 NΑ
## utils
                 NA
## viridis
                 NA
## whisker
                 NA
## withr
                 NA
## xlsx
                 NA
## xlsxjars
                 NA
## xtable
                 NA
## xts
                 "zoo"
## yaml
                 NA
## zoo
                 NA
##
                 Suggests
                 "testthat"
## assertthat
## BiasedUrn
## bindr
                 "testthat"
                 "testthat"
## bindrcpp
## classInt
## cli
                 "covr, fansi, mockery, testthat, webshot, withr"
                 "datasets, stats, utils, KernSmooth, MASS, kernlab, mvtnorm,\nvcd, dichromat, tcltk, s
## colorspace
                 "mockery, rstudioapi, testthat, withr"
## crayon
                 "curl (>= 0.9), crayon, testthat (>= 1.0.2), BiocInstaller,\nRcpp (>= 0.10.0), MASS, r
## devtools
## digest
                 "knitr, rmarkdown"
                 "bit64 (>= 0.9.7), callr, covr (>= 3.0.1), DBI (>= 0.7.14), \ndbplyr (>= 1.2.0), dtplyr
## dplyr
                 "cluster, mlbench, nnet, randomForest, rpart, SparseM, xtable, \nMatrix, MASS"
## e1071
                 "MASS (>= 3.1-20)"
## epiR
## EpiStats
                 "knitr,\nrmarkdown"
## fansi
                 "unitizer, knitr, rmarkdown"
## GADMTools
                 "knitr, rmarkdown"
## geosphere
                 "methods, raster"
                 "MASS, stringr, hexbin, dplyr"
## ggmap
                 "testthat, covr, magrittr, crayon, knitr, rmarkdown, DBI,\nRSQLite, R.utils, forcats,
## glue
## htmltools
                 "markdown, testthat"
## jpeg
## jsonlite
                 "httr, curl, plyr, testthat, knitr, rmarkdown, R.rsp, sp"
                 "knitr, rmarkdown (>= 0.2.65), testthat, covr"
## lazyeval
## mapproj
                 "mapproj (>= 1.2-0), mapdata (>= 2.3.0), sp, maptools, \nrnaturalearth"
## maps
## maptools
                 "rgeos (>= 0.1-8), spatstat (>= 1.50), PBSmapping, maps,\nRColorBrewer, raster, polycl
## munsell
                 "ggplot2, testthat"
                 "knitr (>= 1.19), lubridate, testthat (>= 2.0.0), withr"
## pillar
## plogr
                 "abind, testthat, tcltk, foreach, doParallel, itertools, \niterators, covr"
## plyr
## png
                 "covr, dplyr (>= 0.7.5), knitr, rmarkdown, testthat"
## purrr
## R6
                 "knitr, microbenchmark, pryr, testthat, ggplot2, scales"
                 "RUnit, inline, rbenchmark, knitr, rmarkdown, pinp, pkgKitten\n(>= 0.1.2)"
## Rcpp
                 "covr, lattice, testthat (>= 0.8.0)"
## reshape2
## rgdal
## rgeos
                 "maptools (>= 0.8-5), testthat, XML, maps, rgdal"
## RgoogleMaps
                 "PBSmapping, maptools, sp, loa, RColorBrewer, leaflet"
```

```
## rjson
                 "crayon, knitr, methods, pillar, rmarkdown (>= 0.2.65),\ntestthat, covr"
## rlang
                 "dichromat, bit64, covr, hms, testthat (>= 2.0)"
## scales
                 "RColorBrewer, rgdal (>= 0.8-7), rgeos (>= 0.3-13), gstat, \nmaptools, deldir"
## sp
## spData
                 "foreign, maptools, raster, rgdal, sf, sp, spDataLarge (>=\n0.2.7.1), spdep"
## stringi
                 "covr, dplyr, import, knitr (>= 1.5.32), microbenchmark,\nmockr, nycflights13, rmarkdo
## tibble
                 "covr, dplyr, testthat"
## tidyselect
## utf8
                 "knitr, rmarkdown, testthat"
                 "hexbin (>= 1.27.0), ggplot2 (>= 1.0.1), testthat, covr"
## viridisLite
## withr
                 "testthat, covr, lattice, DBI, RSQLite, methods, knitr, \nrmarkdown"
                 "RUnit"
## yaml
## abind
                 NΑ
## acepack
                 "testthat"
## assertthat
                 "testthat"
## backports
                 "checkmate"
                 "methods"
## base
## base64
                 NA
## base64enc
                 NA
## BH
                 NA
## BiasedUrn
                 NA
## bindr
                 "testthat"
                 "testthat"
## bindrcpp
## bitops
                 NA
## boot
                 "MASS, survival"
## caTools
                 "MASS, rpart"
## chron
                 "scales, ggplot2"
## class
                 NA
## classInt
                 NA
                 "MASS, Matrix"
## cluster
## codetools
                 NA
## colorRamps
                 NA
## colorspace
                 "datasets, stats, utils, KernSmooth, MASS, kernlab, mvtnorm,\nvcd, dichromat, tcltk, s
## compiler
## curl
                 "testthat (>= 1.0.0), knitr, jsonlite, rmarkdown, magrittr"
## data.table
                 "bit64, knitr, nanotime, chron, ggplot2 (>= 0.9.0), plyr,\nreshape, reshape2, testthat
## datasets
## DBI
                 "testthat, RSQLite, knitr, rmarkdown, covr"
## deldir
                 "polyclip"
## devtools
                 "curl (>= 0.9), crayon, testthat (>= 0.7), BiocInstaller, Rcpp\n(>= 0.10.0), MASS, rma
## dichromat
## digest
                 "knitr, rmarkdown"
                 "bit64, covr, dbplyr, dtplyr, DBI, ggplot2, hms, knitr, Lahman\n(>= 3.0-1), mgcv, micr
## dplyr
                 "cluster, mlbench, nnet, randomForest, rpart, SparseM, xtable, \nMatrix, MASS"
## e1071
## Epiconcepts
                 "MASS (>= 3.1-20)"
## epiR
## evaluate
                 "testthat, lattice, ggplot2"
## expm
                 "RColorBrewer, sfsmisc, Rmpfr"
## fBasics
                 "methods, spatial, RUnit, tcltk, akima"
## foreign
                 "codetools, shiny, testit, knitr"
## formatR
## Formula
                 "longmemo, urca"
## fracdiff
```

## GADMTools

NA

```
## ggplot2
                 "covr, ggplot2movies, hexbin, Hmisc, lattice, mapproj, maps,\nmaptools, mgcv, multcomp
## git2r
                 "getPass"
                 "testthat, covr, magrittr"
## glue
## goftest
## gpclib
## graphics
                 NΑ
## grDevices
                 "KernSmooth"
                 "lattice"
## grid
## gridExtra
                 "ggplot2, lattice, knitr, testthat"
## gss
## gtable
                 "testthat, covr"
                 "knitr, testit"
## highr
                 "chron, rms, mice, tables, knitr, ff, ffbase, plotly (>=\n4.5.6)"
## Hmisc
                 "testthat, XML, xtable, ztable, Hmisc, reshape, rmarkdown, \npander"
## htmlTable
## htmltools
                 "markdown, testthat"
## httr
                 "httpuv, jpeg, knitr, png, testthat (>= 0.8.0), readr, xml2,\nrmarkdown"
## ISOweek
                 "testthat"
## jsonlite
                 "httr, curl, plyr, testthat, knitr, rmarkdown, R.rsp, sp"
## KernSmooth
                 "MASS"
                 "formatR, testit, rgl (>= 0.95.1201), codetools, rmarkdown, \nhtmlwidgets (>= 0.7), web
## knitr
## labeling
## lattice
                 "KernSmooth, MASS, latticeExtra"
                 "maps, mapproj, deldir, tripack, zoo, MASS, quantreg, mgcv"
## latticeExtra
                 "knitr, rmarkdown (>= 0.2.65), testthat, covr"
## lazyeval
## lmtest
                 "car, strucchange, sandwich, dynlm, stats4, survival, AER"
## lubridate
                 "testthat, knitr, covr"
                 "testthat, knitr"
## magrittr
## mapproj
## maps
                 "mapproj (>= 1.2-0), mapdata (>= 2.2-4), sp, maptools"
## maptools
                 "rgeos (>= 0.1-8), spatstat (>= 1.18), PBSmapping, maps,\nRColorBrewer, raster, polycl
## markdown
                 "knitr, RCurl"
## MASS
                 "lattice, nlme, nnet, survival"
## Matrix
                 "expm, MASS"
                 "testthat"
## memoise
## methods
                 "codetools"
                 "splines, parallel, survival, MASS"
## mgcv
## mime
## msm
                 "mstate, minqa, doParallel, foreach, numDeriv, testthat, flexsurv"
## munsell
                 "ggplot2, testthat"
## mvtnorm
                 NΑ
## nlme
                 "Hmisc, MASS"
## nnet
## openssl
                 "testthat, digest, knitr, rmarkdown, jsonlite, jose"
## parallel
                 "methods"
                 "covr, testthat, disposables (>= 1.0.3)"
## pkgconfig
                 "Rcpp"
## plogr
## plyr
                 "abind, testthat, tcltk, foreach, doParallel, itertools, \niterators, covr"
## polyclip
## polyCub
                 "lattice, testthat, mvtnorm, statmod, rgeos, gpclib"
## proto
## quadprog
## R6
                 "knitr, microbenchmark, pryr, testthat, ggplot2, scales"
## RColorBrewer
## RcppArmadillo "RUnit, Matrix, pkgKitten"
```

```
## reshape2
                 "testthat (>= 0.8.0), lattice"
## rgdal
## rgeos
                 "maptools (>= 0.8-5), testthat, XML, maps, rgdal"
## rJava
## rmarkdown
                 "shiny (>= 0.11), tufte, testthat, digest, tibble"
                 "survival"
## rpart
                 "testthat, knitr, withr, rmarkdown"
## rprojroot
## RSclient
## Rserve
                 "RSclient"
## RServerUtils
                 NA
## rstudioapi
                 "testthat"
                 "testthat (>= 0.8), covr, hms"
## scales
## sp
                 "RColorBrewer, rgdal (>= 0.8-7), rgeos (>= 0.3-13), gstat,\nmaptools, deldir"
## spatial
## spatstat
                 "sm, maptools, gsl, locfit, spatial, rpanel, tkrplot, \nRandomFields (>= 3.1.24.1), Ran-
## splines
                 "Matrix, methods"
## stabledist
                 "Matrix, fBasics, FMStable, RUnit, Rmpfr, sfsmisc"
## stats
                 "MASS, Matrix, SuppDists, methods, stats4"
## stats4
                 NA
## stringi
                 NA
## stringr
                 "testthat, knitr, htmltools, htmlwidgets, rmarkdown, covr"
## surveillance
                 "parallel, grid, xts, gridExtra, lattice, colorspace, scales,\nanimation, msm, spc, qu
## survival
                 NA
## tcltk
                 NA
## tensor
                 NΑ
## tibble
                 "covr, dplyr, knitr (>= 1.5.32), microbenchmark, nycflights13,\ntestthat, rmarkdown, w
                 "date, RUnit"
## timeDate
## timeSeries
                 "RUnit, robustbase, xts, PerformanceAnalytics, fTrading"
## tools
                 "codetools, methods, xml2, curl"
## utils
                 "methods, xml2, commonmark"
## viridis
                 "hexbin (>= 1.27.0), scales, MASS, knitr, dichromat,\ncolorspace, rasterVis, httr, map
## whisker
                 "markdown"
                 "testthat"
## withr
## xlsx
                 NA
## xlsxjars
## xtable
                 "knitr, lsmeans, spdep, splm, sphet, plm, zoo, survival"
## xts
                 "timeSeries, timeDate, tseries, chron, fts, tis, RUnit"
## yaml
                 "testthat"
                 "coda, chron, DAAG, fts, its, ggplot2, mondate, scales,\nstrucchange, timeDate, timeSe
## ZOO
##
                 Enhances
## assertthat
                 NA
## BiasedUrn
                 NA
## bindr
                 NA
## bindrcpp
                 NA
## classInt
                 NA
## cli
                 NA
## colorspace
                 NA
## crayon
                 NA
## devtools
                 NA
## digest
                 NA
## dplyr
                 NA
## e1071
                 NA
## epiR
                 NA
## EpiStats
                 NA
```

```
## fansi
                  NA
## GADMTools
                  NA
## geosphere
                  NA
## ggmap
                  NA
## glue
                  NA
## htmltools
                  "knitr"
## jpeg
                  NA
## jsonlite
                  NA
## lazyeval
                  NA
                  NA
## mapproj
## maps
                  NA
## maptools
                  "gpclib, RArcInfo"
## munsell
## pillar
                  NA
## plogr
                  NA
## plyr
                  NA
## png
                  NA
## purrr
                  NA
## R6
                  NA
                  NA
## Rcpp
## reshape2
                  NA
## rgdal
                  NA
                  NA
## rgeos
## RgoogleMaps
                  NA
## rjson
                  NA
## rlang
                  NA
## scales
                  NA
## sp
                  NA
## spData
                  NA
## stringi
                  NA
## tibble
                  NA
## tidyselect
                  NA
## utf8
                  NA
## viridisLite
                  NA
## withr
                  NA
## yaml
                  NA
## abind
                  NA
## acepack
                  NA
## assertthat
                  NA
## backports
                  NA
## base
                  NA
## base64
                  NA
## base64enc
                  "png"
## BH
                  NA
## BiasedUrn
                  NA
## bindr
                  NA
## bindrcpp
                  NA
## bitops
                  NA
## boot
                  NA
## caTools
                  NA
                  "zoo"
## chron
## class
                  NA
## classInt
                  NA
## cluster
                  NA
```

```
## codetools
                  NA
## colorRamps
                  NA
## colorspace
                  NA
## compiler
                  NA
## curl
                  NA
## data.table
                  NA
## datasets
                  NA
## DBI
                  NA
## deldir
                  NA
## devtools
                  NA
## dichromat
                  NA
## digest
                  NA
## dplyr
                  NA
## e1071
                  NA
## Epiconcepts
                  NA
## epiR
                  NA
## evaluate
                  NA
## expm
                  NA
## fBasics
                  NA
## foreign
                  NA
## formatR
                  NA
## Formula
                  NA
## fracdiff
                  NA
## GADMTools
                  NA
## ggplot2
                  "sp"
## git2r
                  NA
## glue
                  NA
## goftest
                  NA
## gpclib
                  NA
## graphics
                  NA
## grDevices
                  NA
## grid
                  NA
## gridExtra
                  NA
                  NA
## gss
## gtable
                  NA
## highr
                  NA
## Hmisc
                  NA
## htmlTable
                  NA
## htmltools
                  "knitr"
## httr
                  NA
## ISOweek
                  NA
## jsonlite
                  NA
## KernSmooth
                  NA
                  NA
## knitr
## labeling
                  NA
                  "chron"
## lattice
## latticeExtra
                  NA
## lazyeval
                  NA
## lmtest
## lubridate
                  "chron, timeDate, zoo, xts, its, timeSeries, fts, tseries"
## magrittr
                  NA
                  NA
## mapproj
## maps
                  NA
## maptools
                  "gpclib, RArcInfo"
```

```
## markdown
                  NA
## MASS
                  NA
## Matrix
                  "MatrixModels, graph, SparseM, sfsmisc"
## memoise
## methods
                  NA
## mgcv
                  NA
## mime
                  NA
## msm
                  NA
## munsell
                  NA
## mvtnorm
                  NA
## nlme
                  NA
                  NA
## nnet
## openssl
                  NA
## parallel
                  "snow, nws, Rmpi"
## pkgconfig
                  NA
## plogr
                  NA
## plyr
                  NA
## polyclip
                  NA
## polyCub
                  NA
## proto
                  NA
## quadprog
                  NA
## R6
                  NA
## RColorBrewer
                  NA
## RcppArmadillo NA
## reshape2
## rgdal
                  NA
## rgeos
                  NA
## rJava
                  NA
## rmarkdown
                  NA
## rpart
                  NA
## rprojroot
                  NA
## RSclient
                  NA
## Rserve
                  NA
## RServerUtils
                 NA
## rstudioapi
                  NA
## scales
                  NA
## sp
                  NA
## spatial
                  NA
## spatstat
                  NA
## splines
                  NA
## stabledist
                  NA
## stats
                  NA
## stats4
                  NA
## stringi
                  NA
## stringr
                  NA
## surveillance
                  NA
## survival
                  NA
## tcltk
                  NA
## tensor
                  NA
## tibble
                  NA
## timeDate
                  NA
## timeSeries
                  NA
## tools
                  NA
## utils
                  NA
```

```
## viridis
                  NA
## whisker
                  NΑ
## withr
                  NA
## xlsx
                  NA
## xlsxjars
                  NA
## xtable
                  NA
## xts
                  NA
                  NA
## yaml
## zoo
                  NA
##
                                                              License_is_FOSS
                  License
## assertthat
                  "GPL-3"
                                                              NA
                  "GPL-3"
## BiasedUrn
                                                              NA
                  "MIT + file LICENSE"
                                                              NA
## bindr
## bindrcpp
                  "MIT + file LICENSE"
                                                              NA
## classInt
                  "GPL (>= 2)"
                                                              NA
                  "MIT + file LICENSE"
## cli
                                                              NA
                  "BSD_3_clause + file LICENSE"
                                                              NA
## colorspace
                  "MIT + file LICENSE"
## crayon
                                                              NA
                  "GPL (>= 2)"
## devtools
                                                              NA
                  "GPL (>= 2)"
## digest
                                                              NA
## dplyr
                  "MIT + file LICENSE"
                                                              NA
## e1071
                  "GPL-2"
                                                              NA
                  "GPL (>= 2)"
## epiR
                                                              NA
## EpiStats
                  "LGPL-3"
                                                              NA
                  "GPL (>= 2)"
## fansi
                                                              NA
## GADMTools
                  "GPL-3"
                                                              NA
## geosphere
                  "GPL (>= 3)"
                                                              NA
                  "GPL-2"
                                                              NA
## ggmap
                  "MIT + file LICENSE"
                                                              NA
## glue
                  "GPL (>= 2)"
## htmltools
                                                              NA
                  "GPL-2 | GPL-3"
## jpeg
                                                              NA
## jsonlite
                  "MIT + file LICENSE"
                                                              NA
                  "GPL-3"
## lazyeval
                                                              NA
                  "Lucent Public License"
                                                              NA
## mapproj
                  "GPL-2"
## maps
                                                              NA
                  "GPL (>= 2)"
                                                              NA
## maptools
## munsell
                  "MIT + file LICENSE"
                                                              NA
## pillar
                  "GPL-3"
                                                              NA
                  "MIT + file LICENSE"
                                                              NA
## plogr
                  "MIT + file LICENSE"
                                                              NA
## plyr
                  "GPL-2 | GPL-3"
                                                              NA
## png
                  "GPL-3 | file LICENSE"
## purrr
                                                              NA
                  "MIT + file LICENSE"
## R6
                                                              NA
                  "GPL (>= 2)"
                                                              ΝA
## Rcpp
## reshape2
                  "MIT + file LICENSE"
                                                              NA
                  "GPL (>= 2)"
## rgdal
                                                              NA
                  "GPL (>= 2)"
## rgeos
                                                              NA
                  "GPL"
                                                              NA
## RgoogleMaps
                  "GPL-2"
## rjson
                                                              NA
                  "GPL-3"
## rlang
                                                              NA
## scales
                  "MIT + file LICENSE"
                                                              NA
                  "GPL (>= 2)"
## sp
                                                              NA
                  "CCO"
## spData
                                                              NA
## stringi
                  "file LICENSE"
                                                              "yes"
```

```
## tibble
                  "MIT + file LICENSE"
                                                              NA
## tidyselect
                  "GPI.-3"
                                                              NΑ
                  "Apache License (== 2.0) | file LICENSE"
## utf8
                                                             NA
## viridisLite
                  "MIT + file LICENSE"
                                                              NA
                  "GPL (>= 2)"
## withr
                                                              NA
## yaml
                  "BSD_3_clause + file LICENSE"
                                                              NA
## abind
                  "LGPL (>= 2)"
                                                              NA
                  "MIT + file LICENSE"
## acepack
                                                              NA
## assertthat
                  "GPL-3"
                                                              NA
                  "GPL-2"
                                                              NA
## backports
## base
                  "Part of R 3.5.0"
                                                              NA
                  "MIT + file LICENSE"
## base64
                                                              NA
                  "GPL-2 | GPL-3"
## base64enc
                                                              NA
                  "BSL-1.0"
## BH
                                                              NA
## BiasedUrn
                  "GPL-3"
                                                              NA
## bindr
                  "MIT + file LICENSE"
                                                              NA
                  "MIT + file LICENSE"
                                                              NA
## bindrcpp
                  "GPL (>= 2)"
## bitops
                                                              NA
## boot
                  "Unlimited"
                                                              NA
                  "GPL-3"
## caTools
                                                              NA
## chron
                  "GPL-2"
                                                              NA
## class
                  "GPL-2 | GPL-3"
                                                              NA
                  "GPL (>= 2)"
## classInt
                                                              NA
## cluster
                  "GPL (>= 2)"
                                                              NA
                  "GPL"
## codetools
                                                              NA
## colorRamps
                  "GPL"
                                                              NA
## colorspace
                  "BSD_3_clause + file LICENSE"
                                                              NA
## compiler
                  "Part of R 3.5.0"
                                                              NA
                  "MIT + file LICENSE"
## curl
                                                              NA
                  "GPL-3 | file LICENSE"
## data.table
                                                              NA
                  "Part of R 3.5.0"
## datasets
                                                              NA
## DBI
                  "LGPL (>= 2)"
                                                              NA
                  "GPL (>= 2)"
## deldir
                                                              NA
## devtools
                  "GPL (>= 2)"
                                                              NA
                  "GPL-2"
## dichromat
                                                              NA
## digest
                  "GPL-2"
                                                              NA
## dplyr
                  "MIT + file LICENSE"
                                                              NA
## e1071
                  "GPL-2"
                                                              NA
## Epiconcepts
                  "LGPL-3"
                                                              NA
                  "GPL (>= 2)"
## epiR
                                                              NA
## evaluate
                  "MIT + file LICENSE"
                                                              NA
                  "GPL (>= 2)"
## expm
                                                              NA
                  "GPL (>= 2)"
## fBasics
                                                              NA
                  "GPL (>= 2)"
                                                              ΝA
## foreign
## formatR
                  "GPL"
                                                              NA
                  "GPL-2 | GPL-3"
## Formula
                                                              NA
## fracdiff
                  "GPL (>= 2)"
                                                              NA
## GADMTools
                  "GPL-3"
                                                              NA
                  "GPL-2 | file LICENSE"
## ggplot2
                                                              NA
                  "GPL-2"
## git2r
                                                              NA
## glue
                  "MIT + file LICENSE"
                                                              NΑ
## goftest
                  "GPL (>= 2)"
                                                              NA
## gpclib
                  "file LICENSE"
                                                              NA
                  "Part of R 3.5.0"
## graphics
                                                              NA
```

```
"Part of R 3.5.0"
## grDevices
                                                              NA
## grid
                  "Part of R 3.5.0"
                                                              NΑ
## gridExtra
                  "GPL (>= 2)"
                                                              NA
                  "GPL (>= 2)"
## gss
                                                              NA
                  "GPL-2"
## gtable
                                                              NA
                  "GPL"
                                                              NA
## highr
## Hmisc
                  "GPL (>= 2)"
                                                              NA
                  "GPL (>= 3)"
## htmlTable
                                                              NA
## htmltools
                  "GPL (>= 2)"
                                                              NA
                  "MIT + file LICENSE"
                                                              NA
## httr
## ISOweek
                  "GPL (>= 2)"
                                                              NA
                  "MIT + file LICENSE"
## jsonlite
                                                              NA
                  "Unlimited"
## KernSmooth
                                                              NA
                  "GPL"
## knitr
                                                              NA
## labeling
                  "MIT + file LICENSE | Unlimited"
                                                              NA
## lattice
                  "GPL (>= 2)"
                                                              NA
## latticeExtra
                  "GPL (>= 2)"
                                                              NA
                  "GPL-3"
## lazveval
                                                              NA
## lmtest
                  "GPL-2 | GPL-3"
                                                              NA
                  "GPL-2"
## lubridate
                                                              NA
## magrittr
                  "MIT + file LICENSE"
                                                              NA
## mapproj
                  "Lucent Public License"
                                                              NA
                  "GPL-2"
                                                              NA
## maps
## maptools
                  "GPL (>= 2)"
                                                              NA
                  "GPL-2"
## markdown
                                                              NA
## MASS
                  "GPL-2 | GPL-3"
                                                              NA
## Matrix
                  "GPL (>= 2) | file LICENCE"
                                                              NA
                  "MIT + file LICENSE"
## memoise
                                                              NA
                  "Part of R 3.5.0"
## methods
                                                              NA
                  "GPL (>= 2)"
## mgcv
                                                              NA
                  "GPL"
## mime
                                                              NA
## msm
                  "GPL (>= 2)"
                                                              NA
                  "MIT + file LICENSE"
## munsell
                                                              NA
## mvtnorm
                  "GPL-2"
                                                              NA
                  "GPL (>= 2) | file LICENCE"
## nlme
                                                              NA
                  "GPL-2 | GPL-3"
## nnet
                                                              NA
## openssl
                  "MIT + file LICENSE"
                                                              NA
## parallel
                  "Part of R 3.5.0"
                                                              NA
## pkgconfig
                  "MIT + file LICENSE"
                                                              NA
                  "MIT + file LICENSE"
                                                              NA
## plogr
                  "MIT + file LICENSE"
                                                              NA
## plyr
                  "BSL"
## polyclip
                                                              NA
                  "GPL-2"
## polyCub
                                                              NA
                  "GPL-2"
## proto
                                                              NA
                  "GPL (>= 2)"
## quadprog
                                                              NA
                  "MIT + file LICENSE"
## R6
                                                              NA
## RColorBrewer
                  "Apache License 2.0"
                                                              NA
## RcppArmadillo "GPL (>= 2)"
                                                              NA
## reshape2
                  "MIT + file LICENSE"
                                                              NA
                  "GPL (>= 2)"
## rgdal
                                                              NA
                  "GPL (>= 2)"
                                                              NA
## rgeos
                  "GPL-2"
## rJava
                                                              NA
## rmarkdown
                  "GPL-3"
                                                              NA
                  "GPL-2 | GPL-3"
## rpart
                                                              NA
```

```
"GPL-3"
## rprojroot
                                                               NA
                  "GPL-2 | file LICENSE"
## RSclient
                                                               NΑ
                  "GPL-2 | file LICENSE"
## Rserve
                                                               NA
                  "What license is it under?"
## RServerUtils
                                                               NA
## rstudioapi
                  "MIT + file LICENSE"
                                                               NA
## scales
                  "MIT + file LICENSE"
                                                               NA
                  "GPL (>= 2)"
                                                               NA
## sp
                  "GPL-2 | GPL-3"
## spatial
                                                               NA
## spatstat
                  "GPL (>= 2)"
                                                               NA
                  "Part of R 3.5.0"
                                                               NA
## splines
## stabledist
                  "GPL (>= 2)"
                                                               NA
                  "Part of R 3.5.0"
## stats
                                                               NA
                  "Part of R 3.5.0"
## stats4
                                                               NA
                  "file LICENSE"
                                                               "yes"
## stringi
                  "GPL-2 | file LICENSE"
                                                               ΝA
## stringr
                  "GPL-2"
## surveillance
                                                               NA
## survival
                  "LGPL (>= 2)"
                                                               NA
## tcltk
                  "Part of R 3.5.0"
                                                               NA
## tensor
                  "GPL (>= 2)"
                                                               NA
                  "MIT + file LICENSE"
## tibble
                                                               NA
## timeDate
                  "GPL (>= 2)"
                                                               NA
## timeSeries
                  "GPL (>= 2)"
                                                               NA
## tools
                  "Part of R 3.5.0"
                                                               NA
## utils
                  "Part of R 3.5.0"
                                                               NA
## viridis
                  "MIT + file LICENSE"
                                                               NA
## whisker
                  "GPL-3"
                                                               NA
## withr
                  "GPL (>= 2)"
                                                               NA
                  "GPL-3"
                                                               NA
## xlsx
                  "GPL-3"
## xlsxjars
                                                               NA
                  "GPL (>= 2)"
## xtable
                                                               NA
                  "GPL (>= 2)"
## xts
                                                               NA
                  "BSD_3_clause + file LICENSE"
## yaml
                                                               NA
                  "GPL-2 | GPL-3"
## zoo
                                                               NA
                  License_restricts_use OS_type MD5sum NeedsCompilation
##
## assertthat
                  NA
                                          NA
                                                   NA
                                                           "no"
## BiasedUrn
                  NA
                                          NA
                                                   NA
                                                           "yes"
## bindr
                  NA
                                          NA
                                                   NA
                                                           "no"
## bindrcpp
                  NA
                                          NA
                                                   NA
                                                           "yes"
## classInt
                  NA
                                          NA
                                                   NA
                                                           "yes"
## cli
                  NA
                                          NA
                                                   NA
                                                           "no"
## colorspace
                                          NA
                                                           "yes"
                  NA
                                                           "no"
## crayon
                  NA
                                          NA
                                                   NΑ
## devtools
                                                           "no"
                  NA
                                          NA
                                                   NA
                                          NA
                                                   NA
                                                           "yes"
## digest
                  NA
                                                   NA
                                                           "yes"
## dplyr
                  NA
                                          NA
                                                           "yes"
## e1071
                  NA
                                          NA
                                                   NA
                                                           "no"
## epiR
                  NA
                                          NA
                                                   NA
                                                   NA
                                                           NA
## EpiStats
                  NA
                                          NA
## fansi
                  NA
                                          NA
                                                   NA
                                                           "yes"
                                                           "no"
## GADMTools
                  NA
                                          NA
                                                   NA
                  NA
                                          NA
                                                   NA
                                                           "yes"
## geosphere
                                                   NA
                                                           "no"
## ggmap
                  NA
                                          NA
                                                           "yes"
## glue
                  NA
                                          NA
                                                   NA
## htmltools
                  NA
                                          NA
                                                   NA
                                                           "yes"
```

##	jpeg	NA	NA	NA	"yes"
##	jsonlite	NA	NA	NA	"yes"
##	lazyeval	NA	NA	NA	"yes"
##	mapproj	NA	NA	NA	"yes"
##	maps	NA	NA	NA	"yes"
##	maptools	NA	NA	NA	"yes"
##	munsell	NA	NA	NA	"no"
##	pillar	NA	NA	NA	"no"
##	plogr	NA	NA	NA	"no"
##	plyr	NA	NA	NA	"yes"
##	png	NA	NA	NA	"yes"
##	purrr	NA	NA	NA	"yes"
##	R6	NA	NA	NA	"no"
##	Rcpp	NA	NA	NA	"yes"
##	reshape2	NA	NA	NA	"yes"
##	rgdal	NA	NA	NA	"yes"
##	rgeos	NA	NA	NA	"yes"
##	RgoogleMaps	NA	NA	NA	"no"
##	rjson	NA	NA	NA	"yes"
##	rlang	NA	NA	NA	"yes"
##	scales	NA	NA	NA	"yes"
##	sp	NA	NA	NA	"yes"
##	spData	NA	NA	NA	"no"
##	stringi	NA	NA	NA	"yes"
##	tibble	NA	NA	NA	"yes"
##	tidyselect	NA	NA	NA	"yes"
##	utf8	NA	NA	NA	"yes"
##	viridisLite	NA	NA	NA	"no"
##	withr	NA	NA	NA	"no"
##	yaml	NA	NA	NA	"yes"
##	abind	NA	NA	NA	"no"
##	acepack	NA	NA	NA	"yes"
##	assertthat	NA	NA	NA	"no"
##	backports	NA	NA	NA	"no"
##	base	NA	NA	NA	NA
##	base64	NA	NA	NA	"no"
##	base64enc	NA	NA	NA	"yes"
##	BH	NA	NA	NA	"no"
##	BiasedUrn	NA	NA	NA	"yes"
##	bindr	NA	NA	NA	"no"
##	bindrcpp	NA	NA	NA	"yes"
##	bitops	NA	NA	NA	"yes"
##	boot	NA	NA	NA	"no"
##	caTools	NA	NA	NA	"yes"
##	chron	NA	NA	NA	"yes"
##	class	NA	NA	NA	"yes"
##	classInt	NA	NA	NA	"yes"
##	cluster	NA	NA	NA	"yes"
##	codetools	NA	NA	NA	"no"
##	colorRamps	NA	NA	NA	NA
	colorspace	NA	NA	NA	"yes"
	compiler	NA	NA	NA	NA
	curl	NA	NA	NA	"yes"
##	data.table	NA	NA	NA	"yes"
					-

##	datasets	NA	NA	NA	NA
##	DBI	NA	NA	NA	"no"
##	deldir	NA	NA	NA	"yes"
##	devtools	NA	NA	NA	"yes"
##	dichromat	NA	NA	NA	NA
##	digest	NA	NA	NA	"yes"
	dplyr	NA	NA	NA	"yes"
	e1071	NA	NA	NA	"yes"
##	Epiconcepts	NA	NA	NA	NA
	epiR	NA	NA	NA	"no"
##	evaluate	NA	NA	NA	"no"
##	expm	NA	NA	NA	"yes"
##	fBasics	NA	NA	NA	"yes"
##	foreign	NA	NA	NA	"yes"
	formatR	NA	NA	NA	"no"
	Formula	NA	NA	NA	"no"
##	fracdiff	NA	NA	NA	NA
	GADMTools	NA	NA	NA	NA
##	ggplot2	NA	NA	NA	"no"
	git2r	NA	NA	NA	"yes"
	glue	NA	NA	NA	"yes"
	goftest	NA	NA	NA	"yes"
	gpclib	"yes"	NA	NA	"yes"
	graphics	NA	NA	NA	"yes"
	grDevices	NA	NA	NA	"yes"
	grid	NA	NA	NA	"yes"
##	gridExtra	NA	NA	NA	"no"
##	gss	NA	NA	NA	"yes"
	gtable	NA NA	NA	NA NA	"no"
	highr	NA NA	NA	NA NA	"no"
	Hmisc	NA NA	NA NA	NA NA	"yes"
		NA NA	NA NA	NA NA	"no"
	htmlTable	NA NA	NA NA	NA NA	"yes"
	htmltools				•
	httr	NA	NA NA	NA	"no"
##	ISOweek	NA	NA NA	NA	NA
##	jsonlite KernSmooth	NA	NA NA	NA	"yes"
		NA	NA	NA	"yes"
	knitr	NA	NA	NA	"no"
	labeling	NA	NA	NA	"no"
	lattice	NA	NA	NA	"yes"
	latticeExtra	NA	NA	NA	"no"
	lazyeval	NA	NA	NA	"yes"
	lmtest	NA	NA	NA	"yes"
	lubridate	NA	NA	NA	"yes"
	magrittr	NA	NA	NA	"no"
	mapproj	NA	NA	NA	"yes"
	maps	NA	NA	NA	"yes"
	maptools	NA	NA	NA	"yes"
	markdown	NA	NA	NA	"yes"
	MASS	NA	NA	NA	"yes"
	Matrix	NA	NA	NA	"yes"
	memoise	NA	NA	NA	"no"
	methods	NA	NA	NA	"yes"
##	mgcv	NA	NA	NA	"yes"

##	mime	NA	NA	NA	"yes"
##	msm	NA	NA	NA	"yes"
##	munsell	NA	NA	NA	"no"
##	mvtnorm	NA	NA	NA	"yes"
##	nlme	NA	NA	NA	"yes"
##	nnet	NA	NA	NA	"yes"
##	openssl	NA	NA	NA	"yes"
##	parallel	NA	NA	NA	"yes"
##	pkgconfig	NA	NA	NA	"no"
##	plogr	NA	NA	NA	"no"
##	plyr	NA	NA	NA	"yes"
##	polyclip	NA	NA	NA	"yes"
##	polyCub	NA	NA	NA	"yes"
##	proto	NA	NA	NA	"no"
##	quadprog	NA	NA	NA	"yes"
##	R6	NA	NA	NA	"no"
##	RColorBrewer	NA	NA	NA	"no"
##	${\tt RcppArmadillo}$	NA	NA	NA	"yes"
##	reshape2	NA	NA	NA	"yes"
##	rgdal	NA	NA	NA	"yes"
##	rgeos	NA	NA	NA	"yes"
##	rJava	NA	NA	NA	"yes"
##	rmarkdown	NA	NA	NA	"no"
##	rpart	NA	NA	NA	"yes"
##	rprojroot	NA	NA	NA	"no"
##	RSclient	NA	NA	NA	"yes"
##	Rserve	NA	NA	NA	"yes"
##	RServerUtils	NA	NA	NA	NA
##	rstudioapi	NA	NA	NA	"no"
##	scales	NA	NA	NA	"yes"
##	sp	NA	NA	NA	"yes"
##	spatial	NA	NA	NA	"yes"
##	spatstat	NA	NA	NA	"yes"
##	splines	NA	NA	NA	"yes"
##	stabledist	NA	NA	NA	"no"
##	stats	NA	NA	NA	"yes"
##	stats4	NA	NA	NA	NA
##	stringi	NA	NA	NA	"yes"
	stringr	NA	NA	NA	"no"
	surveillance	NA	NA	NA	"yes"
	survival	NA	NA	NA	"yes"
	tcltk	NA	NA	NA	"yes"
	tensor	NA	NA	NA	NA
	tibble	NA	NA	NA	"yes"
	timeDate	NA	NA	NA	"no"
	timeSeries	NA	NA	NA	"no"
	tools	NA	NA	NA	"yes"
	utils	NA	NA	NA	"yes"
	viridis	NA	NA	NA	"no"
	whisker	NA	NA NA	NA	"no"
	withr	NA	NA NA	NA NA	"no"
	xlsx	NA	NA NA	NA NA	"no"
	xlsxjars	NA	NA NA	NA	"no"
	xtable	NA	NA NA	NA NA	"no"
1T#	VOUNTE	11/11	MU	MU	110

шш		N. A.	DT A	7.T. A	
	xts	NA NA	NA NA	NA NA	"yes"
	yaml zoo	NA NA	NA NA	NA NA	"yes" "yes"
##	200	Built	IVA	IVA	yes
	assertthat	"3.5.0"			
	BiasedUrn	"3.5.0"			
		"3.5.0"			
	bindr	"3.5.0"			
	bindrcpp classInt	"3.5.0"			
	cli	"3.5.0"			
		"3.5.0"			
	colorspace	"3.5.0"			
	crayon devtools	"3.5.0"			
	digest	"3.5.0"			
	dplyr	"3.5.0"			
	e1071	"3.5.0"			
	epiR	"3.5.0"			
	EpiStats	"3.5.0"			
	fansi	"3.5.0"			
	GADMTools	"3.5.0"			
	geosphere	"3.5.0"			
	ggmap	"3.5.0"			
	glue	"3.5.0"			
	htmltools	"3.5.0"			
	jpeg	"3.5.0"			
	jsonlite	"3.5.0"			
	lazyeval	"3.5.0"			
	mapproj	"3.5.0"			
	maps	"3.5.0"			
	maptools	"3.5.0"			
	munsell	"3.5.0"			
	pillar	"3.5.0"			
	plogr	"3.5.0"			
	plyr	"3.5.0"			
	png	"3.5.0"			
	purrr	"3.5.0"			
	R6	"3.5.0"			
	Rcpp	"3.5.0"			
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