

Reading from other sources

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There is a package for that

- · Roger has a nice video on how there are R packages for most things that you will want to access.
- · Here I'm going to briefly review a few useful packages
- In general the best way to find out if the R package exists is to Google "data storage mechanism R package"
 - For example: "MySQL R package"

Interacting more directly with files

- · file open a connection to a text file
- · url open a connection to a url
- · gzfile open a connection to a .gz file
- · bzfile open a connection to a .bz2 file
- · ?connections for more information
- Remember to close connections

foreign package

- · Loads data from Minitab, S, SAS, SPSS, Stata, Systat
- · Basic functions *read.foo*
 - read.arff (Weka)
 - read.dta (Stata)
 - read.mtp (Minitab)
 - read.octave (Octave)
 - read.spss (SPSS)
 - read.xport (SAS)
- · See the help page for more details http://cran.r-project.org/web/packages/foreign/foreign.pdf



Examples of other database packages

- RPostresSQL provides a DBI-compliant database connection from R. Tutorial-https://code.google.com/p/rpostgresql/, help file-http://cran.r-project.org/web/packages/RPostgreSQL/RPostgreSQL.pdf
- RODBC provides interfaces to multiple databases including PostgreQL, MySQL, Microsoft Access and SQLite. Tutorial - http://cran.r-project.org/web/packages/RODBC.pdf, help file - http://cran.r-project.org/web/packages/RODBC.pdf
- · R M o n g o http://cran.r-project.org/web/packages/RMongo/RMongo.pdf (example of Rmongo http://www.r-bloggers.com/r-and-mongodb/) and rmongodb provide interfaces to MongoDb.

Reading images

- · jpeg http://cran.r-project.org/web/packages/jpeg/index.html
- · readbitmap http://cran.r-project.org/web/packages/readbitmap/index.html
- png http://cran.r-project.org/web/packages/png/index.html
- · EBImage (Bioconductor) http://www.bioconductor.org/packages/2.13/bioc/html/EBImage.html

Reading GIS data

- · rdgal http://cran.r-project.org/web/packages/rgdal/index.html
- · rgeos http://cran.r-project.org/web/packages/rgeos/index.html
- · raster http://cran.r-project.org/web/packages/raster/index.html

Reading music data

- tuneR http://cran.r-project.org/web/packages/tuneR/
- · seewave http://rug.mnhn.fr/seewave/