

R RESOURCES

Introducing R

<http://data.princeton.edu/R/>

UCLA Institute for Digital Research and Education

<http://www.ats.ucla.edu/stat/r/>

SOME USEFUL PACKAGES

Data management and analysis: `reshape`, `survey`

Data “wrangling” (manipulation): `tidyr`, `dplyr`

American Community Survey summary data: `acs`

Epidemiologic analysis: `epitools`

Graphics: `ggplot2`, `lattice`, `RColorBrewer`

Mapping and spatial analysis: `geoR`, `maps`, `maptools`, `shapefiles`, `sp`

Output formatting and management: `prettyR`, `rmarkdown`, `knitr`

Import and export with Excel: `XLConnect`

Import and export various formats: `foreign`

Access to ODBC databases: `RODBC`

Complex survey analysis (ACS PUMS, BRFSS, NHIS): `survey`

Miscellaneous: `Hmisc` (very useful)

WEBSITES

R Project homepage

<http://www.r-project.org>

CRAN download repository for R and packages:

<http://lib.stat.cmu.edu/R/CRAN>

RStudio development environment

<http://www.rstudio.com/>

R for SAS, SPSS, Stata users

<http://r4stats.com/>

Quick-R homepage (designed for users of SAS, SPSS, and Stata)

<http://www.statmethods.net/index.html>

R Bloggers (compendium of R blogsites)

<http://www.r-bloggers.com>

R Graph Gallery

<http://addictedtor.free.fr/graphiques>

Beginning tutorials and reference cards

<http://cran.r-project.org/doc/contrib/Short-refcard.pdf>

<http://cran.r-project.org/doc/contrib/refcard.pdf>

<http://www.stat.berkeley.edu/~specter/Rcourse.pdf>

<http://www.ms.unimelb.edu.au/~andrewpr/r-users/icebreakeR.pdf>

R search engine

<http://www.rseek.org>

“10 tips for making your R graphics look their best” Extremely helpful!
<http://blog.revolutionanalytics.com/2009/01/10-tips-for-making-your-r-graphics-look-their-best.html>

“Working with acs.R” by Ezra Haber Glenn
http://eglenn.scripts.mit.edu/citystate/wp-content/uploads/2013/06/wpid-working_with_acs_R3.pdf

BOOKS AND ASSOCIATED WEBSITES

Kleinman, K, Horton, N.J., *SAS and R: Data Management, Statistical Analysis, and Graphics, Second Edition* (CRC Press, 2014)
<http://sas-and-r.blogspot.com>

Kleinman, K, Horton, N.J., *Using R and RStudio for Data Management, Statistical Analysis, and Graphics, Second Edition* (CRC Press, 2015)

Lumley, T., *Complex Surveys: A Guide to Analysis Using R* (Wiley, 2010)
<http://r-survey.r-forge.r-project.org/survey/index.html>
Accompanies `survey` package

Muenchen, R.A., *R For SAS And SPSS Users, Second Edition* (Springer, 2011)
Muenchen, R.A. and Hilbe, J.M., *R For Stata Users* (Springer, 2010)
<http://r4stats.com> (contains 80-page short version of SAS/SPSS book)

Spector, P., *Data Manipulation with R* (Springer, 2008)

Wickham, H. *Advanced R* (CRC Press, 2014)
<http://adv-r.had.co.nz/>

Wickham, H. *R Packages* (O'Reilly Media, 2015)
<http://r-pkgs.had.co.nz/>

Wickham, H. *ggplot* (Springer, 2009)
<http://ggplot2.org/>

CONTACT

Michael Laviolette PhD MPH
Senior Management Analyst
Bureau of Public Health Statistics and Informatics
Division of Public Health Services
New Hampshire Department of Health and Human Services
29 Hazen Drive
Concord, NH 03301-6504
(603) 271-5688 [phone]
(603) 271-7623 [fax]
michael.laviolette@dhhs.state.nh.us