

# Benchmarks

A green  
light to  
greatness.

The UNT logo features the letters "UNT" in a bold, white, sans-serif font, centered within a circular emblem. The emblem has a green background with a grid of white lines, resembling a globe or a technical diagram.

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## RSS Matters

[R\\_stats](#)

# Research and Statistical Support University of North Texas

## RSS's Top R Package and Software List

Link to the last RSS article here: [Fulfilling the Need for Speed: A brief introduction to parallel processing in the R environment](#). -- Ed.

By [Dr. Richard Herrington](#), Research and Statistical Support Consultant

There has been a trend in publishing "Top 10" lists of the most essential R packages. We would be remiss to not include our own "Top" list of essential R packages that we believe are critical for users who are beginning to use R. We include packages that are both data manipulation oriented and also modeling oriented. Most if not all of these packages can be found at:

[http://cran.r-project.org/web/packages/available\\_packages\\_by\\_name.html](http://cran.r-project.org/web/packages/available_packages_by_name.html)

These distinctions are somewhat arbitrary; we list the packages that we have had the most experience with and have found useful.

### Data Manipulation and Modeling

- Hmisc
- MASS
- car
- Zelig
- plyr
- stringr
- reshape2

### Packages Oriented Toward Graphical Rendering and Report Generation

- gplots
- ggplot2
- lattice
- latticeExtra
- rgl

- igraph
- knitr

### **Packages Oriented Primarily Towards Modeling**

*Linear, nonlinear and random effects regression*

- nlme
- lme4
- mgcv
- effects

*Psychometric packages*

- sem
- lavaan
- lava
- mirt
- aspect
- caTools
- mokken
- psych

*Model selection and time series imputation*

- rpart
- rrp
- forecast
- leaps
- relaimpo
- relimp
- MARSS
- strucchange
- mvtnorm

### **Supporting Software Installations**

We would also include as essential the set of compilation tools - *Rtools*, found at: <http://cran.r-project.org/bin/windows/Rtools/>. Rtools is required if you are interesting in compiling an existing R packages or creating your own R package.

And lets not forget the wonderful R IDE Rstudio found at: <https://www.rstudio.com/ide/>

Until next time, this concludes our short, but essential list of R tools.

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