

Changes on CRAN

2013-05-26 to 2013-11-30

by Kurt Hornik and Achim Zeileis

New CRAN task views

NumericalMathematics Topic: Numerical Mathematics. Maintainer: Hans W. Borchers.

Packages: *BB*, *Bessel*, *MASS*, *Matrix**, *MonoPoly*, *PolynomF*, *R.matlab*, *R2Cuba*, *Rcpp*, *RcppArmadillo*, *RcppEigen*, *RcppOctave*, *Rmpfr*, *Ryacas*, *SparseGrid*, *SphericalCubature*, *akima*, *appell*, *combinat*, *contfrac*, *cubature*, *eigeninv*, *elliptic*, *expm*, *features*, *gaussquad*, *gmp*, *gsl**, *hypergeo*, *irlba*, *magic*, *matlab*, *mpoly*, *multipol*, *nleqslv*, *numDeriv**, *numbers*, *onion*, *orthopolynom*, *partitions*, *pcenum*, *polyCub*, *polynom**, *pracma*, *rPython*, *rSymPy*, *signal*, *ssvd*, *statmod*, *stinepack*, *svd*.

WebTechnologies Topic: Web Technologies and Services. Maintainer: Scott Chamberlain,

Karthik Ram, Christopher Gandrud, Patrick Mair. Packages: *AWS.tools*, *CHCN*, *FAOSTAT*, *GuardianR*, *MTurkR*, *NCBI2R*, *OAIHarvester*, *Quandl*, *RCurl**, *RJSONIO**, *RLastFM*, *RMendeley*, *RNCBI*, *RNCEP*, *ROAuth*, *RSiteCatalyst*, *RSocrata*, *RTDAmeritrade*, *RWeather*, *Rcolombos*, *Reol*, *Rfacebook*, *RgoogleMaps*, *Rook*, *SynergizeR*, *TFX*, *WDI*, *XML**, *alm*, *anametrix*, *bigml*, *cgdsr*, *cimis*, *crn*, *datamart*, *dataone*, *decctools*, *dismo*, *dvsn*, *fImport*, *factualR*, *flora*, *ggmap*, *gooJSON*, *googlePublicData*, *googleVis*, *govStatJPN*, *govdat*, *httpuv*, *httr**, *imguR*, *ngramr*, *nhlscrapr*, *opencpu*, *osmar*, *pitchRx*, *plotGoogleMaps*, *plotKML*, *quantmod*, *rAltmetric*, *rPlant*, *rdata-market*, *rebird*, *rentrez*, *repmis*, *rfigshare*, *rfishbase*, *rfisheries*, *rgauges*, *rgbif*, *rjson**, *rplos*, *rpubchem*, *rsnps*, *rvertnet*, *scholar*, *scrapeR*, *selectr*, *seq2R*, *seqinr*, *servr*, *shiny**, *sos4R*, *streamR*, *taxize*, *translate*, *treebase*, *twitterR*, *waterData*, *wethepeople*, *yhatr*, *zendeskR*.

(* = core package)

New packages in CRAN task views

Bayesian *BSquare*, *FME*, *prevalence*.

ChemPhys *BioMark*, *SCEPtER*, *SCEPtERextras*, *celestial*, *prospectr*.

Cluster *Funclustering*, *bayesMCclust*, *mixture*.

DifferentialEquations *adaptivetau*.

Distributions *CompLognormal*, *HistogramTools*, *NormalGamma*, *flexsurv*, *mbbafd*, *msm*, *sparseMVN*.

Econometrics *crch*, *midasr*, *pwt8*.

Environmetrics *quantregGrowth*, *rtop*.

Finance *BenfordTests*, *LSMonteCarlo*, *OptHedging*, *RND*, *SmithWilsonYieldCurve*, *markovchain*.

HighPerformanceComputing *HistogramTools*, *MonetDB.R*, *RProtoBuf*, *RhpcBLASctl*, *pb-dPROF*, *pls*.

MachineLearning *RXshrink*, *bigRR*, *bmm*.

MedicalImaging *gdimap**.

MetaAnalysis *CAMAN*, *MetaSKAT*, *PubBias*, *dosresmeta*, *exactmeta*, *netmeta*, *seqMeta*.

NaturalLanguageProcessing *lda*, *movMF*, *skmeans*.

OfficialStatistics SAScii.

Phylogenetics DDD, conveyol, corHMM, evobiR, metafor, phylolm.

Psychometrics ExPosition, ICC, MCMCglmm, TAM*, cocor, cocron, equateIRT, irtProb, mediation, multiplex, nlme, ordinal, semPlot, sirt.

ReproducibleResearch installr.

Robust RSKC.

Spatial CARBayes, GWmodel, Grid2Polygons, McSpatial, SSN, SpatialEpi, SpatialTools, dbmss, georob, gstudio, gwrr, ngspatial, plotGoogleMaps, rlandscape, rtop, rworldxtra, spTimer, spatial.tools, splm, taRifx.

SpatioTemporal BBMM, animalTrack, bcpa, crawl, move, smam.

TimeSeries ArDec, FeedbackTS, SDD, SparseTSCGM, StVAR, TSclust, Tides, midasr, nlts, nonlinearTseries, portes, psd, rmgarch, rugarch, sltl, spTimer, sspir, timesboot, tsModel.

(* = core package)

New contributed packages

ABCoptim Implementation of Artificial Bee Colony (ABC) Optimization. Authors: George Vega Yon [aut], Enyelbert Muñoz [ctb].

ACTCD Asymptotic Classification Theory for Cognitive Diagnosis. Authors: Chia-Yi Chiu and Wenchao Ma.

AFLPsim Hybrid simulation and genome scan for dominant markers. Authors: Francisco Balao [aut, cre], Juan Luis García-Castaño [aut].

ALSCPC Accelerated line search algorithm for simultaneous orthogonal transformation of several positive definite symmetric matrices to nearly diagonal form. Author: Dariush Najarzadeh.

AMGET Post-processing tool for ADAPT 5. Author: Benjamin Guiastrennec.

ARTP Gene and Pathway p-values computed using the Adaptive Rank Truncated Product. Authors: Kai Yu, Qizhai Li and William Wheeler.

AUC Threshold independent performance measures for probabilistic classifiers. Authors: Michel Ballings and Dirk Van den Poel.

AdapEnetClass A class of adaptive elastic net methods for censored data. Authors: Hasinur Rahaman Khan and Ewart Shaw.

AdaptiveSparsity Adaptive Sparsity Models. Authors: Kristen Zygmunt, Eleanor Wong, Tom Fletcher.

AnDE An extended Bayesian Learning Technique developed by Dr. Geoff Webb. Author: Sai Teja Ranuva and Nayyar Zaidi.

AppliedPredictiveModeling Functions and Data Sets for “Applied Predictive Modeling”. Authors: Max Kuhn, Kjell Johnson.

BASIX An efficient C/C++ toolset for R. Author: Bastian Pfeifer.

BCDating Business Cycle Dating and Plotting Tools. Author: Majid Einian.

BCEs0 Bayesian models for cost-effectiveness analysis in the presence of structural zero costs. Author: Gianluca Baio.

- BEDASSLE** Disentangles the effects of geographic and ecological isolation on genetic differentiation. Author: Gideon Bradburd.
- BEST** Bayesian Estimation Supersedes the t-Test. Authors: John K. Kruschke and Mike Meredith.
- BGLR** Bayesian Generalized Linear Regression. Authors: Gustavo de los Campos, Paulino Perez Rodriguez.
- BGPhazard** Markov beta and gamma processes for modeling hazard rates. Authors: J. A. Garcia-Bueno and L. E. Nieto-Barajas.
- BMamevt** Multivariate Extremes: Bayesian estimation of the spectral measure. Author: Anne Sabourin.
- BSSasymp** Asymptotic covariance matrices of some BSS mixing and unmixing matrix estimates. Authors: Jari Miettinen, Klaus Nordhausen, Hannu Oja, Sara Taskinen.
- BayesCR** Bayesian analysis of censored linear regression models with scale mixtures of normal (SMN) distributions. Authors: Aldo M. Garay, Victor H. Lachos.
- BayesSAE** Bayesian Analysis of Small Area Estimation. Authors: Chengchun Shi, with contributions from Peng Zhang.
- Bayesianbetareg** Bayesian Beta regression: joint mean and precision modeling. Authors: Margarita Marin and Javier Rojas and Daniel Jaimes, under the direction of Edilberto Cepeda-Cuervo and with collaboration of Martha Corrales, Maria Fernanda Zarate, Ricardo Duplat and Luis F Villarraga.
- BioGeoBEARS** BioGeography with Bayesian (and Likelihood) Evolutionary Analysis in R Scripts. Author: Nicholas J. Matzke [aut, cre, cph].
- CALIBERrfimpute** Multiple imputation using MICE and Random Forest. Author: Anoop Shah.
- CARrampsOcl** Reparameterized and marginalized posterior sampling for conditional autoregressive models, OpenCL implementation. Authors: Kate Cowles and Michael Seedorff and Alex Sawyer.
- CCTpack** Cultural Consensus Theory applications to data. Author: Royce Anders.
- CIFsmry** Weighted summary of cumulative incidence functions. Author: Jianing Li.
- CINID** Curculionidae INstar IDentification. Authors: Aurelie Siberchicot, Adrien Merville, Marie-Claude Bel-Venner and Samuel Venner.
- CNVassocData** Example data sets for association analysis of CNV data. Authors: Juan R González, Isaac Subirana.
- CNprep** Pre-process DNA copy number (CN) data for detection of CN events. Authors: Alex Krasnitz, Guoli Sun.
- CORE** Cores of Recurrent Events. Authors: Alex Krasnitz, Guoli Sun.
- CSS** Extract information from an HTML document with CSS selectors. Author: Francois Guillem.
- Causata** Analysis utilities for binary classification and Causata users. Authors: Justin Hemann, David Barker, Suzanne Weller, Jason McFall.
- ClustVarLV** Clustering of variables around Latent Variables. Authors: Evelyne Vigneau, Mingkun Chen.
- Correlplot** A collection of functions for graphing correlation matrices. Author: Jan Graffelman.

- CovSel** Model-Free Covariate Selection. Authors: Jenny Häggström, Emma Persson.
- CoxRidge** Cox models with dynamic ridge penalties. Author: Aris Perperoglou.
- DCL** Claims Reserving under the Double Chain Ladder Model. Authors: Maria Dolores Martinez-Miranda, Jens Perch Nielsen and Richard Verrall.
- DIFlasso** A penalty approach to Differential Item Functioning in Rasch Models. Author: Gunther Schaubberger.
- DSBayes** Bayesian subgroup analysis in clinical trials. Authors: Ravi Varadhan and Wenliang Yao.
- DTMCPack** Suite of functions related to discrete-time discrete-state Markov Chains. Author: William Nicholson.
- DTR** Estimation and comparison of dynamic treatment regimes. Authors: Xinyu Tang and Maria Melguizo.
- DiscreteWeibull** Discrete Weibull distribution. Author: Alessandro Barbiero.
- DistatisR** DiSTATIS Three Way Metric Multidimensional Scaling. Authors: Derek Beaton [aut, com, ctb], Cherise Chin Fatt [ctb], Herve Abdi [aut, cre].
- DoubleCone** Test against parametric regression function. Authors: Mary C Meyer, Bodhisattva Sen.
- DunnettTests** Software implementation of step-down and step-up Dunnett test procedures. Author: Fan Xia.
- DynamicDistribution** Dynamically visualized probability distributions and their moments. Authors: Lei Zhang, Hao Jiang and Chen Xue.
- EILA** Efficient Inference of Local Ancestry. Authors: James J. Yang, Jia Li, Anne Buu, and L. Keoki Williams.
- EMMAgeo** End-member modelling algorithm and supporting functions for grain-size analysis. Authors: Michael Dietze, Elisabeth Dietze.
- EMMIXskew** The EM Algorithm and Skew Mixture Distribution. Authors: Kui Wang, Angus Ng and Geoff McLachlan.
- EMMIXuskew** Fitting Unrestricted Multivariate Skew t Mixture Models. Authors: S. X. Lee and G. J. McLachlan.
- EMVC** Entropy Minimization over Variable Clusters. Authors: H. Robert Frost and Jason H. Moore.
- ES** Edge Selection. Authors: Meng Hwee Victor Ong, Sanjay Chaudhuri.
- EffectsRelBaseline** Test changes of a grouped response relative to baseline. Author: Peter N. Steinmetz.
- EnvNicheR** Environmental niche. Author: Cástor Guisande González.
- EnvStats** Package for Environmental Statistics, including US EPA Guidance. Author: Steven P. Millard.
- EvCombR** Evidence Combination in R. Author: Alexander Karlsson.
- FField** Force field simulation for a set of points. Author: Grigori Kapoustin.
- FGalgorithm** Flury and Gautschi algorithms. Author: Dariush Najarzadeh.
- FREQ** Estimate population size from capture frequencies. Authors: Annegret Grimm and Klaus Henle.

- FastRCS** Compute the FastRCS Algorithm. Authors: Kaveh Vakili [aut, cre].
- FeedbackTS** Analysis of Feedback in Time Series. Authors: Samuel Soubeyrand, Cindy E. Morris, E. Keith Bigg. In view: *TimeSeries*.
- FinCal** Time Value of Money, time series analysis and Computational Finance. Author: Felix Yanhui Fan.
- FindMinIC** Find Models with Minimum IC. Authors: Nicholas Lange, Tom Fletcher, Kristen Zygmunt.
- FusedPCA** Community Detection via Fused Principal Component Analysis. Authors: Yang Feng, Richard J. Samworth and Yi Yu.
- GABi** Framework for Generalized Subspace Pattern Mining. Author: Ed Curry.
- GCD** Global Charcoal Database. Author: Global Paleofire Working Group.
- GDELTtools** Download, slice, and normalize GDELT data. Authors: Stephen R. Haptonstahl, Thomas Scherer, Timo Thoms, and John Beiler.
- GGIR** Author: Vincent T van Hees.
- GIGrvy** Random variate generator for the GIG distribution. Authors: Josef Leydold and Wolfgang Hormann.
- GPCSIV** Generalized Principal Component of Symbolic Interval variables. Authors: Brahim Brahim and Sun Makosso-Kallyth.
- GRT0** Tools for the analysis of Gutenberg-Richter distributions of earthquake magnitudes. Authors: Daniel Amorese, Paul A. Rydelek and Jean-Robert Grasso.
- GSE** Robust Estimation of Multivariate Location and Scatter in the Presence of Missing Data. Authors: Mike Danilov, Andy Leung, Victor Yohai, Ruben Zamar.
- GWmodel** Geographically weighted models. Authors: Binbin Lu, Paul Harris, Isabella Gollini, Martin Charlton, Chris Brunsdon. In view: *Spatial*.
- GetNenshuJP** Get data about Japanese company. Author: Hayakawa Atsushi.
- GetoptLong** Parse command-line arguments. Author: Zuguang Gu.
- GlobalDeviance** Global Deviance Permutation Tests. Author: Frederike Fuhlbrueck.
- GxM** Maximum Likelihood Estimation for Gene-by-Measured Environment Interaction Models. Authors: Hao Zheng and Paul Rathouz.
- HDtweedie** The Lasso for the Tweedie's Compound Poisson Model Using an IRLS-BMD Algorithm. Authors: Wei Qian, Yi Yang, Hui Zou.
- HEAT** Health Effects of Air Pollution and Temperature. Authors: Youn-Hee Lim, Il-Sang Ohn, and Ho Kim.
- HHG** Heller-Heller-Gorfine Tests of Independence. Authors: Shachar Kaufman, based in part on an earlier implementation by Ruth Heller and Yair Heller.
- HTSDiff** Differential analysis of RNA-seq data with Poisson mixture models. Authors: Andrea Rau, Marie-Laure Martin-Magniette, Cathy Maugis-Rabusseau.
- HistogramTools** Utility Functions for R Histograms. Author: Murray Stokely. In views: *Distributions*, *HighPerformanceComputing*.
- HotDeckImputation** Hot Deck Imputation Methods for Missing Data. Author: Dieter William Joenssen.

- IASD** Model selection for index of asymmetry distribution. Author: Satoshi Takahashi.
- IAT** Functions to use with data from the Implicit Association Test. Author: Dan Martin.
- ICEbox** Individual Conditional Expectation Plot Toolbox. Authors: Alex Goldstein, Adam Kapelner, Justin Bleich.
- INLABMA** Bayesian Model Averaging with INLA. Authors: Virgilio Gomez Rubio, Roger Bivand.
- ISLR** Data for “An Introduction to Statistical Learning with Applications in R”. Authors: Gareth James, Daniela Witten, Trevor Hastie and Rob Tibshirani.
- IUPS** Incorporating Uncertainties in Propensity Scores. Authors: Weihua An, Huizi Xu, and Zhida Zheng.
- InPosition** Inference Tests for ExPosition. Authors: Derek Beaton, Joseph Dunlop, Herve Abdi.
- IntLik** Numerical Integration for Integrated Likelihood. Author: Zhenyu Zhao.
- InterVA4** Replicate and analyse InterVA4. Authors: Zehang LI, Tyler McCormick, Sam Clark.
- JointRegBC** Joint Modelling of Mixed Correlated Binary and Continuous Responses: A Latent Variable Approach. Authors: Ehsan Bahrami Samani and Zhale Tahmasebinejad.
- LCA** Localised Co-Dependency Analysis. Author: Ed Curry.
- LiCurvature** Sensitivity Analysis for Case Weight in Normal Linear Regression. Authors: Ehsan Bahrami Samani and Parisa ParsaMaram.
- LPmerge** Merging linkage maps by linear programming. Author: Jeffrey Endelman.
- LSMonteCarlo** American options pricing with Least Squares Monte Carlo method. Author: Mikhail A. Beketov. In view: *Finance*.
- LVMMCOR** A Latent Variable Model for Mixed Continuous and Ordinal Responses. Authors: Ehsan Bahrami Samani and Nourallah Tazikeh Miyandarreh.
- LogrankA** Logrank Test for Aggregated Survival Data. Authors: Jonas Richter-Dumke and Roland Rau.
- MASSI** MicroArray Sample Sex Identifier. Author: Sam Buckberry.
- MCDA** Authors: Patrick Meyer, Sébastien Bigaret.
- MCMC.qpcr** Bayesian analysis of qRT-PCR data. Author: Mikhail V. Matz.
- MConjoint** Conjoint Analysis through Averaging of Multiple Analyses. Author: William Hughes.
- MF** Mitigated Fraction. Author: David Siev.
- MFHD** Multivariate Functional Halfspace Depth. Authors: M. Hubert, K. Vakili.
- MGLM** Multivariate Response Generalized Linear Models. Authors: Yiwen Zhang and Hua Zhou.
- MLRMPA** Multilinear Regression Model Population Analysis. Authors: Meihong Xie and Xiaoyun Zhang.
- MODISTools** MODIS Subsetting Tools. Authors: Sean Tuck, Helen Phillips.
- MPINet** Implements the network-based metabolite pathway identification of pathways. Authors: Yanjun Xu, Chunquan Li and Xia Li.

- MPSEM** Modeling Phylogenetic Signals using Eigenvector Maps. Authors: Guillaume Guenard, with contribution from Pierre Legendre.
- MRCV** Methods for Analyzing Multiple Response Categorical Variables. Authors: Natalie Koziol and Chris Bilder.
- MRMR** Multivariate Regression Models for Reserving. Author: Brian A. Fannin.
- MRsurv** A multiplicative-regression model for relative survival. Authors: Y. Foucher, K. Trebern-Launay.
- MRwarping** Multiresolution time warping for functional data. Authors: L. Slaets, G. Claeskens, B. W. Silverman.
- Map2NCBI** Mapping Markers to the Nearest Genomic Feature. Authors: Lauren L. Hulsmann Hanna and David G. Riley.
- MetSizeR** GUI tool for estimating sample sizes for metabolomic experiments. Authors: Gift Nyamundanda, Isobel Claire Gormley, Yue Fan, William M Gallagher, Lorraine Brennan.
- MetStaT** Statistical metabolomics tools. Author: Tim Dorscheidt.
- MicroDatosEs** Utilities for Official Spanish Microdata. Authors: Carlos J. Gil Bellosta [aut, cre], José Luis Cañadas Reche [ctb].
- MissMech** Testing Homoscedasticity, Multivariate Normality, and Missing Completely at Random. Authors: Mortaza Jamshidian, Siavash Jalal, and Camden Jansen.
- Myrrix** Interface to Myrrix, a complete, real-time, scalable clustering and recommender system, evolved from Apache Mahout. Authors: Jan Wijffels [aut, cre].
- Myrrixjars** External jars required for package **Myrrix**. Authors: Jan Wijffels [aut, cre].
- NAPPA** Performs the processing and normalisation of Nanostring miRNA and mRNA data. Author: Mark Wappett.
- NCmisc** Miscellaneous general purpose functions. Author: Nicholas Cooper.
- NEff** Calculating effective sizes based on known demographic parameters of a population. Authors: Annegret Grimm, Bernd Gruber and Klaus Henle.
- NLP** Natural Language Processing Infrastructure. Author: Kurt Hornik [aut, cre].
- NPMLEmprsk** Non-parametric Maximum-Likelihood Estimation for Competing-Risks Data. Authors: Chung-Hsing Chen, I-Shou Chang and Chao A. Hsiung.
- NPMVCP** Nonparametric Multivariate Change Point Model. Author: Mark D. Holland.
- NSM3** Accompanies Hollander, Wolfe, and Chicken “Nonparametric Statistical Methods, Third Edition”. Authors: Grant Schneider, Eric Chicken, Rachel Becvarik.
- NetSim** A Social Networks Simulation Tool in R. Author: Christoph Stadtfeld.
- Newdistns** Computes pdf, cdf, quantile and random numbers for 19 general families of distributions. Author: Saralees Nadarajah.
- NominalLogisticBiplot** Biplot representations of categorical data. Authors: Julio Cesar Hernandez Sanchez, Jose Luis Vicente-Villardón.
- ODMconverter** tools to convert ODM files. Author: Martin Dugas.
- OpasnetUtils** Utility functions for dealing with data in Opasnet (www.opasnet.org) environment. Authors: Teemu Rintala, Einari Happonen, Jouni Tuomisto.

- OptHedging** Estimation of value and hedging strategy of call and put options. Author: Bruno Remillard. In view: *Finance*.
- OrdinalLogisticBiplot** Biplot representations of ordinal variables. Authors: Julio Cesar Hernandez Sanchez, Jose Luis Vicente-Villardón.
- PAGI** Identify the dysregulated KEGG pathways based on global influence from the internal effect of pathways and crosstalk between pathways. Authors: Junwei Han, Yanjun Xu, Haixiu Yang, Chunquan Li and Xia Li.
- PAGWAS** Pathway analysis methods for genomewide association data. Author: Marina Evangelou.
- PLRModels** Statistical inference in partial linear regression models. Authors: German Aneiros Perez and Ana Lopez Cheda.
- PROFANCY** Prioritize candidate disease metabolites based on global functional relationships between metabolites in the context of metabolic pathways. Authors: Qianlan Yao, Desi Shang, Chunquan Li.
- PSAboot** Bootstrapping for Propensity Score Analysis. Author: Jason Bryer.
- ParDNAcopy** Parallel implementation of the segment function of package **DNAcopy**. Authors: Alex Krasnitz, Guoli Sun.
- ParentOffspring** Conduct the Parent-Offspring Test Using Monomorphic SNP Markers. Authors: Pengsheng Ji, Hussein Abdel-Haleem, H. Roger Boerma and Zenglu Li.
- PatternClass** Class-focused pattern metric comparisons using simulation. Authors: Tarmo K. Rimmel, (Marie-Josée Fortin, Ferenc Csillag, Sandor Kabos).
- PedCNV** An implementation for association analysis with CNV data. Authors: Meiling Liu, Sungho Won and Weicheng Zhu.
- PivotalR** R front-end to PostgreSQL and Pivotal (Greenplum) database, wrapper for MADlib. Authors: Predictive Analytics Team at Pivotal Inc., with contributions from Data Scientist Team at Pivotal Inc.
- PowerR** Computation of power and level tables for hypothesis tests. Authors: Pierre Lafaye de Micheaux, Viet Anh Tran.
- PsumtSim** Simulations of grouped responses relative to baseline. Author: Peter N. Steinmetz.
- PubBias** Performs simulation study to look for publication bias, using a technique described by Ioannidis and Trikalinos; Clin Trials, 2007;4(3):245–53. Author: Simon Thornley. In view: *MetaAnalysis*.
- PubMedWordcloud** PubMed Word Clouds. Author: Felix Yanhui Fan.
- QCGWAS** Quality Control of Genome Wide Association Study results. Authors: Peter J. van der Most and Ilja M. Nolte.
- QZ** Generalized Eigenvalues and QZ Decomposition. Authors: Wei-Chen Chen, partly adapted and using routines from LAPACK.
- RANN** Fast Nearest Neighbour Search (wraps Arya and Mount's ANN library). Authors: Sunil Arya and David Mount (for ANN), Samuel E. Kemp, Gregory Jefferis.
- RCEIM** R Cross Entropy Inspired Method for Optimization. Author: Alberto Krone-Martins.
- RCPmod** Regions of common profiles modelling with mixtures-of-experts. Author: Scott D. Foster.

- RECSO** Robust and Efficient Analysis using Control function approach, of a Secondary Outcome. Author: Tamar Sofer.
- RGenetics** Genetics research. Author: Felix Yanhui Fan.
- RIGHT** R Interactive Graphics via HTML. Authors: ChungHa Sung, TaeJoon Song, Jae W. Lee, and Junghoon Lee.
- RImpala** Authors: Austin Chungath Vincent, Sachin Sudarshana, Vikas Raguttahalli.
- RInSp** R Individual Specialization. Authors: Nicola Zaccarelli, Giorgio Mancinelli, and Dan Bolnick.
- RND** Risk Neutral Density. Author: Kam Hamidieh. In view: [Finance](#).
- RObsDat** Store your observations: R-Interface to the Observations Data Model from QUASHI. Author: Dominik Reusser.
- RSADBE** Data related to the book “R Statistical Application Development by Example”. Author: Prabhanjan Tattar.
- RSDA** R to Symbolic Data Analysis. Author: Oldemar Rodriguez R., with contributions from Johnny Villalobos M.
- RSocrata** Download Socrata datasets as R data frames. Author: Hugh J. Devlin. In view: [WebTechnologies](#).
- RStorm** Simulate and Develop Streaming Processing in [R]. Author: Maurits Kaptein.
- RTConnect** Tools for analyzing sales report files of iTunes Connect. Author: Yusuke Miyazaki.
- RVsharing** Authors: Alexandre Bureau, Ingo Ruczinski, Samuel G. Younkin.
- RWiener** Wiener process distribution functions. Author: Dominik Wabersich.
- RadOnc** Analytical Tools for Radiation Oncology. Author: Reid F. Thompson.
- Rambo** The Random Subgraph Model. Authors: Charles Bouveyron, Yacine Jernite, Pierre Latouche, Laetitia Nouedoui.
- Rankcluster** Model-based clustering for multivariate partial ranking data. Author: Quentin Grimonprez.
- Rbitcoin** Rbitcoin integration. Author: Jan Gorecki.
- RcmdrPlugin.sampling** Tools for sampling in Official Statistical Surveys. Authors: Susie Jentoft and Johan Heldal.
- Rcolombos** Interface to Colombos Compendia using the exposed REST API. Author: Paolo Sonogo. In view: [WebTechnologies](#).
- RcppZiggurat** Rcpp integration of different Ziggurat Normal RNG implementations. Author: Dirk Eddelbuettel.
- Rfacebook** Access to Facebook API via R. Author: Pablo Barbera. In view: [WebTechnologies](#).
- RhpcBLASctl** Control the number of threads on BLAS for R. Authors: Junji Nakano and Ei-ji Nakama. In view: [HighPerformanceComputing](#).
- RidgeFusion** Ridge Fusion in Statistical Learning. Author: Bradley S. Price.
- Rjpstatdb** R interface of the Gateway to Advanced and User-friendly Statistics Service. Author: Kiwamu Ishikura.

- RobPer** Periodogram methods for irregularly sampled time series (especially light curves occurring in astroparticle physics) and periodicity detection methods. Authors: Anita M. Thielert, Jonathan Rathjens and Roland Fried, with contributions from Brenton R. Clarke, Uwe Ligges, Matias Salibian-Barrera, Gert Willems and Victor Yohai.
- RockFab** Rock fabric and strain analysis tools. Author: Jeffrey R. Webber.
- Rpoppler** PDF tools based on Poppler. Author: Kurt Hornik.
- Ruchardet** Author: Heewon Jeon.
- SCEPtER** Stellar CharacterEstics Pisa Estimation gRid. Authors: Matteo Dell’Omodarme [aut, cre], Giada Valle [aut]. In view: [ChemPhys](#).
- SCEPtERextras** Additional grids for SCEPtER. Authors: Matteo Dell’Omodarme [aut, cre], Giada Valle [aut]. In view: [ChemPhys](#).
- SCGLR** Supervised Component Generalized Linear Regression. Authors: Mortier F., Trotter C., Cornu G., Bry X.
- SEchart** Authors: Rutger M. van den Bor and Willem M. van der Wal.
- SIMMS** Subnetwork Integration for Multi-Modal Signatures. Authors: Syed Haider, Michal Grzadkowski, Paul C. Boutros.
- SINGLE** Estimate sparse dynamic graphs using the Smooth Incremental Graphical Lasso Estimation (SINGLE) algorithm. Authors: Ricardo Pio Monti, Christoforos Anagnostopoulos and Giovanni Montana.
- SML** Statistical Machine Learning. Author: Tuo Zhao.
- SOLOMON** Parentage analysis. Author: Mark Christie.
- SPMS** Sub-Pathway Mining Software. Author: Xiaomeng Ni.
- SPODT** Spatial Oblique Decision Tree. Authors: Jean Gaudart, Nathalie Graffeo, Guillaume Barbet, Bernard Fichet, Roch Giorgi.
- SPmlfcmcm** Semiparametric Maximum likelihood Method for interactions gene-environment in case-mother control-mother designs. Authors: Moliere Nguile Makao and Alexandre Bureau.
- SRRS** The Stepwise Response Refinement Screener (SRRS). Authors: Frederick Kin Hing Phoa and Shu-Ching Lin.
- SciencesPo** Tools for analyzing political behaviour data. Author: Daniel Marcelino.
- ScrabbleScore** Calculates Scrabble score for strings. Author: Will Kurt.
- SesIndexCreator** Computation and visualization of socioeconomic indices and categories distributions. Author: Benoit Lalloue.
- SigTree** Functions to determine significantly responsive branches of phylogenetic trees and produce colored plots both in FigTree (via exported file) and R. Authors: John R. Stevens and Todd R. Jones.
- SimuChemPC** Simulation process of 4 selection methods in predicting chemical potent compounds. Author: Mohsen Ahmadi.
- SmithWilsonYieldCurve** Smith-Wilson Yield Curve Construction. Author: Phil Joubert. In view: [Finance](#).
- StAMPP** Statistical Analysis of Mixed Ploidy Populations. Author: L. W. Pembleton.

- StatRank** Statistical Rank Aggregation: Inference, Evaluation, and Visualization. Authors: Hossein Azari Soufiani, William Chen.
- StrainRanking** Ranking of pathogen strains. Authors: S. Soubeyrand, C. Tollenaere, E. Haon-Lasportes and A.-L. Laine.
- StratSel** Strategic Selection Estimator. Author: Lucas Leemann.
- SubCultCon** Maximum-Likelihood Cultural Consensus Analysis with Sub-Cultures. Authors: Mary C Meyer, Jeffrey G Snodgrass, Michael Lacy.
- SynchWave** Synchrosqueezed Wavelet Transform. Authors: Matlab original by Eugene Brevdo; R port by Dongik Jang, Hee-Seok Oh and Donghoh Kim.
- TAM** Test Analysis Modules. Authors: Thomas Kiefer [aut], Alexander Robitzsch [aut, cre], Margaret Wu [aut]. In view: *Psychometrics*.
- TBEST** Tree Branches Evaluated Statistically for Tightness. Authors: Guoli Sun, Alex Krasnitz.
- TH.data** TH's Data Archive. Author: Torsten Hothorn [aut, cre].
- TInPosition** Inference tests for TExPosition. Authors: Derek Beaton, Jenny Rieck, Herve Abdi.
- TSclust** Time series clustering utilities. Authors: Pablo Montero Manso, José Antonio Vilar. In view: *TimeSeries*.
- TSjson TSdbi** extension for importing time series from web sources via JSON. Author: Paul Gilbert.
- TSsql** Generic SQL helper functions for **TSdbi** SQL plugins. Author: Paul Gilbert.
- TableToLongForm** Author: Jimmy Oh [aut, cre].
- TapeR** Flexible tree taper curves based on Semiparametric Mixed Models. Author: Edgar Kublin.
- Thinknum** Thinknum Data Connection. Author: Gregory Ugwi.
- TiddlyWikiR** Create dynamic reports using a TiddlyWiki template. Author: David Montaner.
- Tides** Author: Tom Cox. In view: *TimeSeries*.
- ToxLim** Incorporating Ecological Data and Associated Uncertainty in Bioaccumulation Modeling. Authors: Frederik De Laender and Karline Soetaert.
- TriMatch** Propensity Score Matching of Non-Binary Treatments. Author: Jason Bryer.
- UScancer** Create US cancer datasets from SEER, IARC, and US Census data. Author: Jonathan Lee.
- VIMGUI** Visualization and Imputation of Missing Values. Authors: Daniel Schopfhauser, Matthias Templ, Andreas Alfons, Alexander Kowarik, Bernd Prantner.
- VLF** Frequency Matrix Approach for Assessing Very Low Frequency Variants in Sequence Records. Authors: Taryn B. T. Athey and Paul D. McNicholas.
- VSURF** Variable Selection Using Random Forests. Authors: Robin Genuer, Jean-Michel Poggi and Christine Tuleau-Malot.
- VaRES** Computes value at risk and expected shortfall for over 100 parametric distributions. Authors: Saralees Nadarajah, Stephen Chan and Emmanuel Afuecheta.

- VizOR** Graphical visualization tools for complex observational data with focus on health sciences. Authors: Drew Griffin Levy [aut], David C. Norris [aut, cre].
- WhopGenome** High-speed processing of whole-genome VCF-format variation data, FASTA-format sequence data and several alignments formats. Author: Ulrich Wittelsbuerger.
- XML2R** EasieR XML data collection. Author: Carson Sievert.
- YPmodel** The Short-term and Long-term Hazard Ratio Model for Survival Data. Authors: Junlong Sun and Song Yang.
- ZIM** Statistical Models for Count Time Series with Excess Zeros. Authors: Ming Yang, Gideon K. D. Zamba, and Joseph E. Cavanaugh.
- aLFQ** Estimation of absolute protein quantities from label-free LC-MS/MS proteomics data. Authors: George Rosenberger, Hannes Roest, Christina Ludwig, Barry Grant.
- abf2** Load Axon ABF2 files (currently only in gap-free recording mode). Author: Matthew Caldwell.
- abundant** Abundant regression and high-dimensional principal fitted components. Author: Adam J. Rothman.
- accelerometry** Functions for processing uniaxial minute-to-minute accelerometer data. Author: Dane R. Van Domelen.
- accrued** Visualization tools for partially accruing data. Authors: Julie Eaton and Ian Painter.
- acopula** Modelling dependence with multivariate Archimax (or any user-defined continuous) copulas. Author: Tomas Bacigal.
- agop** Aggregation Operators and Preordered Sets. Authors: Marek Gagolewski [aut, cre], Anna Cena [ctb].
- alm** R wrapper to the almetrics API platform developed by PLoS. Authors: Scott Chamberlain [aut, cre], Carl Boettiger [aut], Karthik Ram [aut], Fenner Martin [aut]. In view: *WebTechnologies*.
- aml** Adaptive Mixed LASSO. Author: Dong Wang.
- animalTrack** Animal track reconstruction for high frequency 2-dimensional (2D) or 3-dimensional (3D) movement data. Authors: Ed Farrell and Lee Fuiman. In view: *SpatioTemporal*.
- aoristic** aoristic analysis with spatial output (kml). Author: George Kikuchi.
- aprof** Amdahl's profiler, directed optimization made easy. Author: Marco D. Visser.
- avgrankoverlap** Average Rank Overlap. Author: Fatih Sunor [aut, cre].
- b6e6rl** Adaptive differential evolution, b6e6rl variant. Author: Marek Spruzina.
- bbefkr** Bayesian bandwidth estimation for the functional kernel regression with unknown error density. Author: Han Lin Shang.
- bcpa** Behavioral change point analysis of animal movement. Author: Eliezer Gurarie. In view: *SpatioTemporal*.
- bdynsys** Bayesian Dynamical System Model. Authors: Shyam Ranganathan, Viktoria Spaiser, Richard P. Mann, David J. T. Sumpter.
- bigGP** Distributed Gaussian process calculations. Authors: Christopher Paciorek [aut, cre], Benjamin Lipshitz [aut], Prabhat [ctb], Cari Kaufman [ctb], Tina Zhuo [ctb], Rollin Thomas [ctb].

- bizdays** Functions to handle business days calculations. Author: Wilson Freitas.
- blkergm** Fitting block ERGM given the block structure on social networks. Authors: Xiaolin Yang, Stephen Fienberg, Alessandro Rinaldo, Han Liu, Michael Rosenblum.
- boxplotdbl** Double Box Plot for Two-Axes Correlation. Author: Shinichiro Tomizono.
- branchLars** Cost-efficient Variable Selection. Author: Li Hua Yue.
- cSFM** Covariate-adjusted Skewed Functional Model (cSFM). Authors: Meng Li, Ana-Maria Staicu, and Howard D. Bondell.
- cabootcrs** Bootstrap Confidence Regions for Correspondence Analysis. Author: T. J. Ringrose.
- camel** Calibrated Machine Learning. Authors: Xingguo Li, Tuo Zhao, and Han Liu.
- censNID** Censored NID samples. Authors: A. I. McLeod and N. M. Mohammad.
- cgwtools** My collection of useful tools. Author: Carl Witthoft.
- chemosensors** A tool for the design of synthetic experiments in machine olfaction. Authors: Alexandre Perera-Lluna and Andrey Ziyatdinov.
- chnppt** Change Point Logistic Regression. Author: Youyi Fong.
- circlize** Circular layout in R. Author: Zuguang Gu.
- clogitL1** Fitting exact conditional logistic regression with lasso and elastic net penalties. Authors: Stephen Reid and Robert Tibshirani.
- cluster.datasets** Cluster Analysis Data Sets. Author: Frederick Novomestky.
- clusterGenomics** Identifying clusters in genomics data by recursive partitioning. Authors: Gro Nilsen and Ole Christian Lingjaerde.
- clustrd** Methods for joint dimension reduction and clustering. Authors: Angelos Markos [aut, cre], Alfonso Iodice D'Enza [aut], Michel Van de Velden [aut].
- codadiags** Markov chain Monte Carlo burn-in based on “bridge” statistics. Authors: Yann Richet, Xavier Bay, Olivier Jacquet, Alexis Jinaphanh.
- cold** Count Longitudinal Data. Authors: M. Helena Gonçalves and M. Salomé Cabral, apart from a set of Fortran-77 subroutines written by R. Piessens and E. de Doncker, belonging to the suite “Quadpack”.
- comclim** Community climate statistics. Author: Benjamin Blonder.
- compactr** Creates empty plots with compact axis notation. Author: Carlisle Rainey.
- coneproj** Primal or Dual Cone Projections with Routines for Shape-restricted Regression. Authors: Mary C. Meyer and Xiyue Liao.
- convevol** Quantify and assess the significance of convergent evolution. Authors: C. Tristan Stayton [aut, cre]. In view: *Phylogenetics*.
- corTools** Tools for processing data after a Genome Wide Association Study. Author: Angela Fan.
- covLCA** Latent Class Models with Covariate Effects on Underlying and Measured Variables. Authors: Aurelie Bertrand and Christian M. Hafner.
- cpa** Confirmatory Path Analysis through the d-sep tests. Authors: Alessandro Bellino and Daniela Baldantoni.
- cpk** Clinical Pharmacokinetics. Authors: Oscar A. Linares [aut, cre], David T. Daly [aut].

- crch** Censored Regression with Conditional Heteroscedasticity. Authors: Jakob Messner [aut, cre], Achim Zeileis [aut]. In view: *Econometrics*.
- crqa** Cross-Recurrence Quantification Analysis for Categorical and Continuous Time-Series. Authors: Moreno I. Coco and Rick Dale.
- cycloids** Author: Peter Biber.
- d3Network** Tools for creating D3 JavaScript network and tree graphs from R. Author: Christopher Gandrud.
- dataQualityR** Performs variable level data quality checks and generates summary statistics. Authors: Madhav Kumar and Shreyes Upadhyay.
- decctools** Get energy data from the UK Dept of Energy and Climate Change. Author: James Keirstead. In view: *WebTechnologies*.
- demoKde** Kernel Density Estimation for Demonstration Purposes. Author: Bill Venables.
- diaplt** Beads Summary Plot of Ranges. Author: Shinichiro Tomizono.
- diffEq** Functions from the book “Solving Differential Equations in R”. Author: Karline Soetaert.
- diffIRT** Diffusion-based IRT models for Response and Response Time Data. Author: Dylan Molenaar.
- dils** Data-Informed Link Strength. Combine multiple-relationship networks into a single weighted network. Impute (fill-in) missing network links. Author: Stephen R. Haptonstahl.
- directPA** Direction Pathway Analysis. Authors: Pengyi Yang and Ellis Patrick.
- distillery** Method Functions for Confidence Intervals and to Distill Information from an Object. Author: Eric Gilleland.
- distrom** Distributed Multinomial Regression. Author: Matt Taddy.
- dosresmeta** Performing dose-response meta-analysis. Author: Alessio Crippa. In view: *MetaAnalysis*.
- dpcR** Digital PCR Analysis. Authors: Michal Burdukiewicz, Stefan Roediger.
- drmdel** Dual empirical likelihood inference under density ratio models for multiple samples. Author: Song Cai.
- dupiR** Bayesian inference from count data using discrete uniform priors. Authors: Federico Comoglio and Maurizio Rinaldi.
- dynBiplotGUI** Full Interactive GUI for Dynamic Biplot in R. Author: Jaime Egido.
- dynsim** An R implementation of dynamic simulations of autoregressive relationships. Authors: Laron K Williams, Guy D Whitten, and Christopher Gandrud.
- effsize** Functions for computing effect sizes. Author: Marco Torchiano.
- eggCounts** Hierarchical modelling of faecal egg counts. Author: Michaela Paul.
- eigenprcomp** Computes confidence intervals for principal components. Author: Francisco Juretig.
- elliplot** Ellipse Summary Plot of Quantiles. Author: Shinichiro Tomizono.
- em2** Compute reading time measures for psycholinguistics. Authors: Pavel Logacev, Shra-van Vasishth.

- emdatr** Global disaster losses from the EM-DAT database. Author: Gopi Goteti.
- enRich** Analysis of multiple ChIP-seq data. Authors: Yanchun Bao and Veronica Vinciotti.
- entropart** Entropy partitioning to measure diversity. Authors: Eric Marcon, Bruno Hérault.
- enviPat** Isotope pattern, profile and centroid calculation for mass spectrometry. Authors: Martin Loos, Christian Gerber.
- epibase** basic tools for the analysis of disease outbreaks. Authors: The Hackout team (In alphabetic order: David Aanensen, Marc Baguelin, Paul Birrell, Simon Cauchemez, Anton Camacho, Caroline Colijn, Anne Cori, Xavier Didelot, Ken Eames, Christophe Fraser, Simon Frost, Niel Hens, Joseph Hugues, Thibaut Jombart, Lulla Opatowski, Oliver Ratmann, Samuel Soubeyrand, Marc Suchard, Jacco Wallinga, Rolf Ypma).
- eqs2lavaan** EQS Output Conversion to **lavaan** Functions. Author: Craig M. Krebsbach.
- equateIRT** Direct, chain and average equating coefficients with standard errors using IRT methods. Author: Michela Battauz. In view: *Psychometrics*.
- erboost** Nonparametric Multiple Expectile Regression via ER-Boost. Authors: Yi Yang, Hui Zou.
- ergm.graphlets** ERG Modeling Based on Graphlet Properties. Authors: Omer Nebil Yaveroglu [aut, cre], Sean M. Fitzhugh [aut], Maciej Kurant [aut], Athina Markopoulou [aut], Natasa Przulj [aut], Carter T. Butts [aut].
- eventInterval** Sequential event interval analysis. Author: Jim Lemon.
- evmix** Extreme Value Mixture Modelling, Threshold Estimation and Boundary Corrected Kernel Density Estimation. Authors: Yang Hu and Carl Scarrott, University of Canterbury.
- evobiR** Evolutionary biology in R. Author: Heath Blackmon. In view: *Phylogenetics*.
- evt0** Mean of order p (MOP) and peaks over random threshold (PORT) Hill estimates for the extreme value index (EVI). Author: B G Manjunath.
- exactmeta** Exact fixed effect meta analysis. Authors: Yilei Yu and Lu Tian. In view: *Meta-Analysis*.
- excursions** Functions that compute probabilistic excursion sets and contour credibility regions for latent Gaussian random processes and fields. Authors: David Bolin and Finn Lindgren.
- expands** Author: Noemi Andor.
- fExpressCertificates** Structured Products Valuation for ExpressCertificates/Autocallables. Author: Stefan Wilhelm.
- fICA** Classic, reloaded and adaptive FastICA algorithms. Authors: Jari Miettinen, Klaus Nordhausen, Hannu Oja, Sara Taskinen.
- factas** Data Mining Methods. Author: Romain Bar.
- fclust** Fuzzy clustering. Authors: Paolo Giordani, Maria Brigida Ferraro.
- fcros** FCROS for detecting differentially expressed genes. Author: Doulaye Dembele.
- fdakma** Clustering and alignment of a functional dataset. Authors: Mirco Patriarca, Laura Sangalli, Piercesare Secchi, Simone Vantini, Valeria Vitelli.
- fdatest** Interval Testing Procedure for functional data. Authors: Alessia Pini, Simone Vantini.

- fishMod** Fits Poisson-sum-of-Gammas GLMs, Tweedie GLMs, and delta log-normal models. Author: Scott D. Foster.
- fitTetra** Assigning tetraploid genotype scores. Authors: Roeland Voorrips and Gerrit Gort.
- flexCWM** Flexible Cluster-Weighted Modeling. Authors: A. Mazza, A. Punzo, S. Ingrassia.
- flora** Taxonomical information on flowering species that occur in Brazil. Author: Gustavo Carvalho. In view: [WebTechnologies](#).
- fscaret** Automated **caret** feature selection. Authors: Jakub Szlek, acknowledgments to Aleksander Mendyk, contributions from stackoverflow and r-help@r-project.org mailing list community.
- gPCA** Batch Effect Detection via Guided Principal Components Analysis. Author: Sarah Reese.
- gWidgets2** Rewrite of gWidgets API for simplified GUI construction. Author: John Verzani.
- gWidgets2RGtk2** Implementation of **gWidgets2** for **RGtk2** package. Author: John Verzani.
- gWidgets2tcltk** Toolkit implementation of **gWidgets2** for **tcltk** package. Author: John Verzani.
- gambin** Fit the GamBin model to species abundance distributions. Authors: Michael Krabbe Borregaard, Thomas Matthews and Karl Ugland.
- genMOSSplus** Application of MOSS algorithm to genome-wide association study (GWAS). Authors: Olga Vesselova, Matthew Friedlander, Laurent Briollais, Adrian Dobra, Helene Massam.
- georob** Robust Geostatistical Analysis of Spatial Data. Authors: Andreas Papritz [cre, aut], Cornelia Schwierz [ctb]. In view: [Spatial](#).
- geostatsp** Geostatistics using SpatialPoints and rasters. Authors: Patrick Brown [aut, cre], Robert Hijmans [ctb].
- gettingtothebottom** Getting to the Bottom, a package for Learning Optimization Methods. Author: Jocelyn T. Chi.
- ggHorizon** An implementation of Horizon Graph. Author: Thomas Kern.
- ggROC** ROC curve plot with **ggplot2**. Author: Honglong Wu.
- gitter** Robust and accurate quantification of pinned colony sizes in microorganisms. Authors: Omar Wagih, Leopold Parts.
- glinternet** Learning interactions via hierarchical group-lasso regularization. Authors: Michael Lim, Trevor Hastie.
- glmlep** Fit GLM with LEP-based penalized maximum likelihood. Authors: Canhong Wen, Hao Lin.
- globalGSA** Global Gene-Set Analysis for Association Studies. Authors: Natalia Vilor, M.Luz Calle.
- globalOptTests** Objective functions for benchmarking the performance of global optimization algorithms. Author: Katharine Mullen.
- gmatrix** Harnessing GPU Power. Author: Nathan Morris.
- govStatJPN** functions to get public survey data in Japan. Author: Yuichiro Otani. In view: [WebTechnologies](#).
- gpk** 100 Data Sets for Statistics Education. Author: Prabhanjan Tattar.

- gpmmap** Analysing and plotting genotype-phenotype maps. Authors: Arne B. Gjuvsland and Yunpeng Wang.
- gpr** A Minimalistic package to apply Gaussian Process in R. Author: Afshin Sadeghi.
- growthmodels** Nonlinear Growth Models. Author: Daniel Rodriguez Perez.
- gsalib** Utility functions for GATK. Author: Kiran Garimella.
- gskat** GEE_KM. Author: Xuefeng Wang.
- highr** Syntax highlighting for R. Authors: Yihui Xie and Yixuan Qiu.
- hspphase** Phasing and imputation of half-sib families using SNP data. Authors: Mohammad Ferdosi, Cedric Gondro.
- humanFormat** Human-friendly formatting functions. Author: Dustin Sallings.
- hydroApps** Tools and models for hydrological applications. Author: Daniele Ganora.
- hypervolume** High-dimensional kernel density estimation and geometry operations. Author: Benjamin Blonder.
- hysteresis** Tools for Modeling Rate-Dependent Hysteretic Processes and Ellipses. Authors: Spencer Maynes, Fan Yang, and Anne Parkhurst.
- inarmix** Mixture models for longitudinal count data. Authors: Nicholas Henderson and Paul Rathouz.
- incReg** Incremental Multivariate Regression. Author: Alexander Entzian [cre, aut, cph].
- influence.SEM** Case Influence in Structural Equation Models. Authors: Massimiliano Pastore and Gianmarco Altoe'.
- investr** Calibration/Inverse Estimation with Linear and Nonlinear Regression Models in R. Author: Brandon M. Greenwell.
- ipfp** Fast implementation of the iterative proportional fitting procedure in C. Author: Alexander W Blocker.
- iqLearn** Interactive Q-learning. Authors: Kristin A. Linn, Eric B. Laber, Leonard A. Stefanski.
- itree** Tools for classification and regression trees, with an emphasis on interpretability. Authors: Alex Goldstein (itree modifications), Terry Therneau, Beth Atkinson, Brian Ripley (rpart).
- jtrans** Johnson transformation for normality. Author: Wang Yuchen.
- jvmr** Integration of R, Java, and Scala. Author: David B. Dahl.
- kcirt** k-Cube Thurstonian IRT Models. Authors: Dave Zes, Jimmy Lewis, Dana Landis.
- kedd** Kernel Estimator and Bandwidth Selection for Density and its Derivatives. Author: Arsalane Chouaib Guidoum.
- kmconfband** Kaplan-Meier Simultaneous Confidence Band for the Survivor Function. Author: David E. Matthews.
- kmlcov** Clustering longitudinal data using the likelihood as a metric of distance. Authors: Mamoun O. Benghezal [aut, cre], Christophe Genolini [ctb].
- knitrBootstrap** Knitr Bootstrap framework. Author: Jim Hester.
- krm** Kernel-based Regression Models. Authors: Youyi Fong, Saheli Datta, Krisztian Sebestyen.

- ktsolve** Configurable function for solving families of nonlinear equations. Author: Carl Witthoft.
- l2boost** Friedman's boosting algorithm for regularized linear regression. Authors: John Ehrlinger [aut, cre], Hemant Ishwaran [aut].
- laGP** Local Approximate Gaussian Process Regression. Author: Robert B. Gramacy.
- label.switching** Relabelling MCMC outputs of mixture models. Author: Panagiotis Papastamoulis.
- learningr** Data and functions to accompany the book "Learning R". Author: Richie Cotton.
- likeLTD** Tools to determine DNA profile evidence. Authors: David Balding, Adrian Timpson, Christopher Steele, Mayeul d'Avezac, James Hetherington.
- likert** Functions to analyze and visualize likert type items. Authors: Jason Bryer, Kimberly Speerschneider.
- lm.br** Linear Model with Breakpoint. Authors: Marc Adams [aut, cre], authors of R function 'lm' [ctb] (general interface), authors of 'lm.gls' [ctb] (interface and R code for matrix weights), U.S. NIST [ctb] (C++ code for TNT::Vector template).
- locits** Test of stationarity and localized autocovariance. Authors: Guy Nason [aut, cre].
- logcondens.mode** Compute MLE of Log-Concave Density on R with Fixed Mode, and Perform Inference for the Mode. Author: Charles Doss.
- lomb** Lomb-Scargle Periodogram. Authors: Thomas Ruf, partially based on C original by Press et al. (Numerical Recipes).
- lrmest** Different types of estimators to deal with multicollinearity. Authors: Ajith Disanayake [aut, cre], P. Wijekoon [aut], R-core [cph].
- lsdv** Fixed effect panel data regression. Author: Zaghdoudi Taha.
- lshorth** The Length of the Shorth. Author: G. Sawitzki.
- ltsbase** Ridge and Liu Estimates based on LTS (Least Trimmed Squares) Method. Authors: Betül Kan Kilinc [aut, cre], Ozlem Alpu [aut, cre].
- lymphclon** Accurate Estimation of Clonal Coincidences and Abundances from Biological Replicates. Authors: Yi Liu [aut, cre], Richard A. Olshen [aut], Andrew Z. Fire [aut], Scott D. Boyd [aut].
- mQTL** Metabolomic Quantitative Trait Locus Mapping. Authors: Lyamine Hedjazi and Jean-Baptiste Cazier.
- mallet** A wrapper around the Java machine learning tool MALLEt. Author: David Mimno.
- mapmisc** Utilities for producing maps. Author: Patrick Brown.
- markovchain** Handle and analyze discrete Markov chains. Author: Giorgio Alfredo Spedicato. In view: *Finance*.
- matrixpls** Matrix-based Partial Least Squares estimation. Author: Mikko Rönkkö.
- mbbefd** MBBEFD distribution and exposure curve. Author: Giorgio Spedicato. In view: *Distributions*.
- mcGlobaloptim** Global optimization using Monte Carlo and Quasi Monte Carlo simulation. Author: Thierry Moudiki.
- memuse** Estimate the memory usage of dense, in-core, numeric objects. Author: Drew Schmidt.

- micromapST** Linked Micromap Plots for U. S. States. Authors: Dan Carr and Jim Pearson, with contributions from Linda Pickle.
- midasr** Mixed Data Sampling Regression. Authors: Virmantas Kvedaras, Vaidotas Zemlys. In views: *Econometrics*, *TimeSeries*.
- migration.indices** Migration indices. Authors: Lajos Bálint and Gergely Daróczi.
- mistat** Data sets, functions and examples from the book: “Modern Industrial Statistics” by Kenett, Zacks and Amberti. Author: Daniele Amberti.
- mizer** Multi-species sIZE spectrum modelling in R. Authors: Finlay Scott and Julia Blanchard and Ken Andersen.
- mlDNA** Machine Learning-based Differential Network Analysis of Transcriptome Data. Authors: Chuang Ma and Xiangfeng Wang.
- mlr** Machine Learning in R. Author: Bernd Bischl.
- mopsocd** Multi-objective Particle Swarm Optimization with Crowding Distance. Author: Pros Naval.
- mpmi** Mixed-pair mutual information estimators. Author: Chris Pardy.
- mreg** Fits regression models when the outcome is partially missing. Author: Simon Bond.
- multiDimBio** Multivariate Analysis and Visualization for Biological Data. Author: Samuel V. Scarpino.
- multiplex** Analysis of Multiple Social Networks with Algebra. Author: J. Antonio Rivero Ostoic. In view: *Psychometrics*.
- mvMORPH** Multivariate Comparative Tools for Fitting Evolutionary Models to Morphometric Data. Authors: Julien Clavel, with contributions from Aaron King, and Emmanuel Paradis.
- mvSLOUCH** MultiVariate Stochastic Linear Ornstein-Uhlenbeck models for phylogenetic Comparative hypotHeses. Author: Krzysztof Bartoszek.
- mvcwt** Wavelet analysis of multiple time series. Author: Timothy H. Keitt.
- naturalsort** Natural Ordering. Author: Kosei Abe.
- ndtv** Network Dynamic Temporal Visualizations. Authors: Skye Bender-deMoll [cre, aut], Martina Morris [ctb].
- needy** Author: Ryan Grannell.
- netClass** Network-Based Biomarker Discovery. Author: Yupeng Cun.
- netmeta** Network meta-analysis with R. Authors: Gerta Ruecker, Guido Schwarzer. In view: *MetaAnalysis*.
- netweavers** NetWeAvers: Weighted Averages for Networks. Author: Elizabeth McClellan.
- neuroblastoma** Neuroblastoma copy number profiles. Author: Toby Dylan Hocking.
- ngramr** Retrieve and plot Google n-gram data. Author: Sean Carmody. In view: *WebTechnologies*.
- nhlscrapr** Compiling the NHL Real Time Scoring System Database for easy use in R. Authors: A.C. Thomas, Samuel L. Ventura. In view: *WebTechnologies*.
- nlmeU** Datasets and utility functions enhancing functionality of **nlme** package. Authors: Andrzej Galecki, Tomasz Burzykowski.

- nonlinearTseries** Nonlinear time series analysis. Author: Constantino A. Garcia. In view: *TimeSeries*.
- npsp** Nonparametric spatial (geo)statistics. Author: Ruben Fernandez-Casal.
- nsga2R** Elitist Non-dominated Sorting Genetic Algorithm based on R. Author: Ching-Shih (Vince) Tsou.
- ocean** Biophysical Oceanography Tools. Author: Benjamin Jones [aut, cre].
- openNLPdata** Apache OpenNLP Jars and Basic English Language Models. Authors: Kurt Hornik [aut, cre], The Apache Software Foundation [ctb, cph] (Apache OpenNLP Java libraries), JWNL development team [ctb, cph] (JWNL Java WordNet Library).
- opencpu** OpenCPU framework for embedded statistical computation and reproducible research. Author: Jeroen Ooms. In view: *WebTechnologies*.
- optextras** A set of tools to support optimization methods (function minimization with at most bounds and masks). Author: John C. Nash [aut, cre].
- ora** Convenient Tools for Working with Oracle Databases. Author: Arni Magnusson.
- ordBTL** Modelling comparison data with ordinal response. Author: Giuseppe Casalicchio.
- paperR** A toolbox for writing Sweave or other L^AT_EX-based papers and reports. Author: Benjamin Hofner.
- parallelMap** Unified interface to some popular parallelization back-ends for interactive usage and package development. Authors: Bernd Bischl, Michel Lang.
- parboost** Distributed Model-Based Boosting. Author: Ronert Obst.
- pastis** Phylogenetic Assembly with Soft Taxonomic Inferences. Authors: Klaas Hartmann, Gavin Thomas, Arne Mooers, Jeffrey Joy, Walter Jetz.
- pathdiagram** Basic functions for drawing path diagrams. Author: Gaston Sanchez.
- pawacc** Physical activity with accelerometers. Author: Marco Geraci.
- pbdPROF** Programming with Big Data — MPI Profiling Tools. Authors: Wei-Chen Chen [aut, cre], Drew Schmidt [aut], Gaurav Sehrawat [aut], Pragneshkumar Patel [aut], George Ostrouchov [aut]. In view: *HighPerformanceComputing*.
- pbs** Periodic B Splines. Author: Shuangcai Wang.
- pedgene** Gene-level statistics for Pedigree Data. Authors: Dan Schaid and Jason Sinnwell.
- peptider** Evaluation of diversity in nucleotide libraries. Authors: Heike Hofmann, Eric Hare, ggobi Foundation.
- phalen** Phalen Algorithms and Functions. Author: Robert P. Bronaugh.
- phaseR** Phase Plane Analysis of One and Two Dimensional ODE Systems. Author: Michael J. Grayling.
- phenmod** Auxiliary functions for phenological data processing, modelling and result handling. Author: Maximilian Lange.
- phyloTop** Phylogenetic Tree Topological Properties Evaluator. Author: Michael Boyd.
- plot3D** Plotting multi-dimensional data. Author: Karline Soetaert.
- polyaAeppli** Implementation of the Polya-Aeppli distribution. Author: Conrad Burden.
- polyclip** Polygon Clipping. Authors: Angus Johnson. Ported to R by Adrian Baddeley and Brian Ripley.

- popsom** Self-Organizing Maps With Population Based Convergence Criterion. Authors: Lutz Hamel [aut, cre], Benjamin Ott [aut], Gregory Breard [aut].
- powerLaw** Fitting heavy tailed distributions. Author: Colin Gillespie.
- powerAnalysis** Power analysis in experimental design. Author: Felix Yanhui Fan.
- ppmlasso** Point Process Models with LASSO penalties. Author: Ian Renner.
- prevalence** Authors: Brecht Devleesschauwer [aut, cre], Paul Torgerson [aut], Johannes Charlier [aut], Bruno Levecke [aut], Nicolas Praet [aut], Pierre Dorny [aut], Dirk Berkvens [aut], Niko Speybroeck [aut]. In view: *Bayesian*.
- primerTree** Author: Jim Hester.
- prinsimp** Finding and plotting simple basis vectors for multivariate data. Authors: Davor Cubranic, Jonathan Zhang, Nancy Heckman, Travis Gaydos, and J.S. Marron.
- profileR** Profile Analysis and Its Applications. Authors: Okan Bulut, Christopher David Desjardins. In view: *Psychometrics*.
- prognosticROC** Prognostic ROC curves for evaluating the predictive capacity of a binary test. Authors: Y. Foucher and C. Combescure.
- propagate** Propagation of Uncertainty. Author: Andrej-Nikolai Spiess.
- prospectr** Miscellaneous functions for processing and sample selection of vis-NIR diffuse reflectance data. Authors: Antoine Stevens and Leonardo Ramirez-Lopez. In view: *ChemPhys*.
- protoclass** Interpretable classification with prototypes. Authors: Jacob Bien and Robert Tibshirani.
- pse** Parameter space exploration with Latin Hypercubes. Authors: Andre Chalom, Paulo Inacio Knecht Lopez de Prado.
- psidR** Build panel data sets from PSID raw data. Author: Florian Oswald.
- pumilioR** Pumilio in R. Author: Luis J. Villanueva-Rivera.
- pvsR** Interact with the Project Vote Smart API for scientific research. Author: Ulrich Matter.
- pwt8** Penn World Table (Version 8.0). Author: Achim Zeileis [aut, cre]. In view: *Econometrics*.
- qfa** Tools for modelling the growth dynamics of arrays of large numbers of colonies and performing quantitative fitness analysis (QFA). Authors: Conor Lawless, with contributions from Alexander Young and Darren Wilkinson.
- qiimer** Work with QIIME Output Files in R. Author: Kyle Bittinger.
- quint** Qualitative Interaction Trees. Authors: Elise Dusseldorp [aut, cre, cph], Lisa Doove [aut], Cor Ninaber [ctb] (supported with the plot function), Iven Van Mechelen [aut, cph].
- rLakeAnalyzer** Analysis of lake physics. Authors: Luke Winslow, Jordan Read, Richard Woolway, Jennifer Brentrup, Jake Zwart.
- rLindo** R Interface to LINDO API. Author: Zhe Liu.
- rNOMADS** An interface to the NOAA Operational Model Archive and Distribution System. Author: Daniel C. Bowman [aut, cre].
- raincpc** Obtain and Analyze Rainfall data from the Climate Prediction Center (CPC). Author: Gopi Goteti.

- randomizationInference** Flexible Randomization-Based Inference. Authors: Joseph J. Lee and Tirthankar Dasgupta.
- rbiouml** Functions to interact with BioUML server. Authors: Ivan Yevshin and Tagir Valeev.
- rbmn** Handling Linear Gaussian Bayesian Networks. Author: Jean-Baptiste Denis.
- reader** A suite of functions to flexibly read data from files. Author: Nicholas Cooper.
- referenceIntervals** Reference Intervals. Author: Daniel Finnegan.
- regpro** Nonparametric Regression. Author: Jussi Klemela.
- rentrez** Entrez in R. Author: David Winter. In view: [WebTechnologies](#).
- reutils** Talk to the NCBI EUtils. Author: Gerhard Schoefl.
- rfisheries** R interface for fisheries data. Authors: Karthik Ram [aut, cre], Carl Boettiger [aut], Andrew Dyck [aut]. In view: [WebTechnologies](#).
- rgauges** R wrapper to Gaug.es API. Authors: Scott Chamberlain [aut, cre], Karthik Ram [aut]. In view: [WebTechnologies](#).
- rio** A Swiss-army knife for data file I/O. Authors: Chung-hong Chan, Geoffrey CH Chan.
- rite** The Right Editor to Write R. Author: Thomas J. Leeper.
- rotations** Tools for Working with Rotation Data. Authors: Bryan Stanfill, Heike Hofmann, Ulrike Genschel.
- rsig** Robust Signature Selection for Survival Outcomes. Authors: Sangkyun Lee, Michel Lang.
- rsnps** Get SNP (Single-Nucleotide Polymorphism) data on the web. Authors: Scott Chamberlain [aut, cre], Kevin Ushey [aut]. In view: [WebTechnologies](#).
- rtematres** The rtematres API package. Author: Claas-Thido Pfaff.
- rvHPDT** Calling haplotype-based and variant-based pedigree disequilibrium test for rare variants in pedigrees. Author: Wei Guo.
- sGPCA** Sparse Generalized Principal Component Analysis. Author: Frederick Campbell.
- samplingEstimates** Sampling Estimates. Author: Emilio Lopez Escobar.
- scar** Shape-Constrained Additive Regression: a Maximum Likelihood Approach. Authors: Yining Chen and Richard Samworth.
- scholar** Analyse citation data from Google Scholar. Author: James Keirstead. In view: [WebTechnologies](#).
- scoring** Proper scoring rules. Author: Ed Merkle.
- sealasso** Standard Error Adjusted Adaptive Lasso. Author: Wei Qian.
- sensitivitymv** Sensitivity Analysis in Observational Studies. Author: Paul R. Rosenbaum.
- seqMeta** Meta-analyzing region-based tests of rare DNA variants. Authors: Arend Voorman, Jennifer Brody, Han Chen, Thomas Lumley. In view: [MetaAnalysis](#).
- servr** A simple HTTP server in R. Author: Yihui Xie. In view: [WebTechnologies](#).
- sheldusr** Natural disaster losses for the USA from the SHELDUS database. Author: Gopi Goteti.
- shinyAce** Ace editor bindings for Shiny. Author: Trestle Technology, LLC.

- shinyRGL** Shiny Wrappers for RGL. Author: Trestle Technology, LLC.
- simMSM** Simulation of event histories based on nonlinear hazard rate functions and potentially nonlinear covariate effects. Author: Holger Reulen.
- simPH** Tools for simulating and plotting quantities of interest estimated from Cox Proportional Hazards models. Author: Christopher Gandrud.
- simسالapar** Tools for Simulation Studies in Parallel with R. Authors: Marius Hofert and Martin Maechler.
- sirt** Supplementary Item Response Theory Models. Author: Alexander Robitzsch. In view: *Psychometrics*.
- sjPlot** Data visualization for statistics in social science. Author: Daniel Lüdtke.
- sjdbc** JDBC Driver Interface. Author: TIBCO Software Inc.
- smaa** Stochastic Multi-criteria Acceptability Analysis. Author: Gert van Valkenhoef.
- smam** Statistical Modeling of Animal Movements. Authors: Jun Yan and Vladimir Pozdnyakov. In view: *SpatioTemporal*.
- smoothie** Two-dimensional Field Smoothing. Author: Eric Gilleland.
- smss** Datasets for Agresti and Finlay's "Statistical Methods for the Social Sciences". Authors: Jeffrey B. Arnold [aut, cre], Alan Agresti [cph], Barbara Finlay [cph].
- snapshot** Gadget N-body cosmological simulation code snapshot I/O utilities. Author: Aaron Robotham.
- snplist** Tools to create Gene Sets. Authors: Chanhee Yi, Alexander Sibley, and Kouros Owzar.
- soilprofile** Consistently represent soil properties along a soil profile. Author: Gianluca Filippa.
- somebm** Some Brownian motions simulation functions. Author: Junwen Huang.
- sorvi** Finnish Open Government Data Toolkit. Authors: Leo Lahti, Juuso Parkkinen, Joona Lehtomaki, Juuso Haapanen, Jussi Paananen, Einari Happonen.
- soundecology** Soundscape ecology. Authors: Luis J. Villanueva-Rivera and Bryan C. Pijanowski.
- spaMM** Mixed models, particularly spatial GLMMs. Authors: François Rousset [aut, cre, cph], Jean-Baptiste Ferdy [aut, cph].
- sparc** Semiparametric Generalized Linear Models. Authors: Tuo Zhao and Han Liu.
- sparktex** Generate L^AT_EX sparklines in R. Authors: Thomas Leeper [aut, cre], Andy Barbour [ctb].
- sparseBC** Sparse biclustering of transposable data. Author: Kean Ming Tan.
- sparseMVN** Multivariate normal functions for sparse covariate and precision matrices. Author: Michael Braun. In view: *Distributions*.
- speccalt** Alternative spectral clustering, with automatic estimation of k . Author: Pierrick Bruneau.
- splitstackshape** Functions to split concatenated data, conveniently stack columns of data.frames, and conveniently reshape data.frames. Author: Ananda Mahto.
- splusTimeDate** Times and Dates from S-PLUS. Author: TIBCO Software Inc.

- splusTimeSeries** Time Series from S-PLUS. Author: TIBCO Software Inc.
- ssfit** Fitting of parametric models using summary statistics. Author: Christiana Kartsonaki.
- ssmrob** Robust estimation and inference in sample selection models. Authors: Mikhail Zhelonkin, Marc G. Genton, Elvezio Ronchetti.
- ssvd** Sparse SVD. Author: Dan Yang. In view: *NumericalMathematics*.
- stima** Simultaneous Threshold Interaction Modeling Algorithm. Authors: Elise Dusseldorp [aut, cre, cph], Claudio Conversano [aut, cph], Cor Ninaber [ctb], Kristof Meers [ctb], Peter Neufeglise [trl].
- straweib** Stratified Weibull Regression Model. Authors: Xiangdong Gu and Raji Balasubramanian.
- strum** STRUctural Modeling of Latent Variables for General Pedigree. Authors: Nathan Morris [aut, cre], Yeunjoo Song [aut], Stephen Cahn [ctb].
- stylo** Functions for a variety of stylometric analyses. Authors: Maciej Eder, Jan Rybicki, Mike Kestemont.
- suRtex** L^AT_EX descriptive statistic reporting for survey data. Author: Dustin Landers.
- surv2sampleComp** Inference for model-free between-group parameters for censored survival data. Authors: Lu Tian, Hajime Uno.
- survsim** Simulation of simple and complex survival data. Authors: David Moriña, Centre Tecnològic de Nutrició i Salut and Albert Navarro.
- svdvisual** SVD visualization tools. Author: Lingsong Zhang.
- svyPVpack** Complex surveys including plausible values. Authors: Manuel Reif, Jakob Peterbauer.
- switchnpreg** Switching nonparametric regression models for a single curve and functional data. Authors: Camila de Souza and Davor Cubranic.
- sybilEFBA** Using gene expression data to improve flux balance analysis predictions. Author: Abdelmoneim Amer Desouki [aut, cre].
- symbolicDA** Analysis of symbolic data. Authors: Andrzej Dudek, Marcin Pelka, Justyna Wilk.
- table1xls** Produces summary tables in the format most often encountered in scientific articles, and exports them to spreadsheet format ('.xls' or '.xlsx'). Author: Assaf P. Oron.
- tbart** Teitz and Bart p-median algorithm. Author: Chris Brunsdon.
- tbdia** Functions for tuberculosis diagnostics research. Author: Matt Parker.
- tester** Tests and checks characteristics of R objects. Author: Gaston Sanchez.
- testit** A simple package for testing R packages. Author: Yihui Xie.
- textometry** Textual Data Analysis Package used by the TXM Software. Authors: Sylvain Loiseau, Vaudor Lise, Matthieu Decorde.
- tibbrConnector** R interface to tibbr. Author: TIBCO Software Inc.
- timesboot** Bootstrap computations for time series objects. Author: Francisco Juretig. In view: *TimeSeries*.
- topsis** TOPSIS method for multiple-criteria decision making (MCDM). Author: Mahmoud Mosalman Yazdi.

- tsbridge** Calculate normalising constants for Bayesian time series models. Authors: Guy J. Abel and Jackie S. T. Wong.
- ttScreening** Genome-wide DNA methylation sites screening by use of training and testing samples. Authors: Meredith Ray, Xin Tong, Hongmei Zhang.
- ttwa** Travel To Work Area. Authors: Francois Semecurbe, Joachim Timoteo.
- turner** Turn vectors and lists of vectors into indexed structures. Author: Gaston Sanchez.
- uuid** Tools for generating and handling of UUIDs. Authors: Simon Urbanek (R package), Theodore Ts'o (libuuid).
- varComp** Variance component models. Author: Long Qu.
- vbdm** Variational Bayes Discrete Mixture Model. Author: Benjamin Logsdon.
- vectoptim** Vectorized optimization methods. Authors: Qiang Kou, Yann Richet.
- vimcom** Intermediate the communication between Vim and R. Author: Jakson Aquino.
- vscc** Variable selection for clustering and classification. Authors: Jeffrey L. Andrews, Paul D. McNicholas.
- waldwolf** Wald-Wolfowitz trend test. Authors: Jodavid Ferreira, Claudio Souza.
- widenet** Penalized Regression with Polynomial Basis Expansions. Authors: Stephan Ritter, Alan Hubbard.
- wordmatch** Matches words in one file with words in another file. Author: Amit Singh Rathore.
- wpp2012** World Population Prospects 2012. Authors: Hana Sevcikova, Patrick Gerland, Kirill Andreev, Nan Li, Danan Gu, Thomas Spoorenberg.
- wppExplorer** Explorer of World Population Prospects. Author: Hana Sevcikova.
- zoom** A spatial data visualization tool. Authors: Corentin M Barbu [aut, cre], Sebastian Gibb [ctb].

Other changes

The following packages were moved to the Archive: **BTSPAS**, **BcDiag**, **BerkeleyEarth**, **BiGGR**, **CatDyn**, **EDanalysis**, **EquiNorm**, **ExactNumCI**, **ExomeCNV**, **GOSim**, **GRRGI**, **HumMeth27QCReport**, **ISIPTA**, **JointModeling**, **LSC**, **LaplacesDemon**, **LogicForest**, **MFDF**, **MeDiChI**, **Metadata**, **NetworkAnalysis**, **OrdLogReg**, **PairTrading**, **RAFM**, **RHive**, **Rcmdr-Plugin.qcc**, **Read.isi**, **ResearchMethods**, **RghcnV3**, **SVGmapping**, **SteinerNet**, **TCC**, **TextRegression**, **USPS**, **WaveletCo**, **aBioMarVsuit**, **afmtools**, **binhf**, **boolfun**, **bsml**, **bwsurvival**, **cem**, **climatol**, **clusterCons**, **coenoflex**, **cplm**, **ctarma**, **curvclust**, **dclong.spt**, **driftsel**, **edesign**, **elrm**, **fastVAR**, **fitDRC**, **geoPlot**, **geospacom**, **igraph0**, **interactivity**, **languageR**, **lcmr**, **lemma**, **longRPart**, **makeR**, **mapReduce**, **marginTree**, **melody**, **mfr**, **multmod**, **non-random**, **ocomposition**, **openNLPmodels.en**, **openNLPmodels.es**, **opencpu.demo**, **polyphe-mus**, **polytomous**, **popPK**, **productplots**, **profanal**, **rImpactStory**, **roxyPackage**, **rriskBayes**, **sabreR**, **spacom**, **trex**, **trio**, **ttrTests**

The following packages were resurrected from the Archive: **AGSDest**, **BAYSTAR**, **DDHFm**, **DescribeDisplay**, **KappaV**, **MAMSE**, **MMS**, **McSpatial**, **MethComp**, **NADA**, **R4dfp**, **RMediation**, **Rclusterpp**, **Simile**, **TreePar**, **YourCast**, **cems**, **clustvarsel**, **codep**, **denpro**, **gearman**, **glm**, **kernelPop**, **laser**, **lazy**, **lmeSplines**, **mht**, **mixer**, **nlts**, **pamctdp**, **pcurve**, **rmetasim**, **rv**, **soil.spec**, **somplot**, **sspline**, **tsModel**

The following package had to be removed: **RTriangle**

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