Contributed Packages

Available Packages

Currently, the CRAN package repository features 12513 available packages.

[Table of available packages, sorted by date of publication](#)

[Table of available packages, sorted by name](#)

Installation of Packages

Please type `help("INSTALL")` or `help("install.packages")` in R for information on how to install packages from this repository. The manual [R Installation and Administration](#) (also contained in the R base sources) explains the process in detail.

[CRAN Task Views](#) allow you to browse packages by topic and provide tools to automatically install all packages for special areas of interest. Currently, 36 views are available.

Package Check Results

All packages are tested regularly on machines running [Debian GNU/Linux](#), [Fedora](#), OS X, Solaris and Windows.

The results are summarized in the [check summary](#) (some [timings](#) are also available). Additional details for Windows checking and building can be found in the [Windows check summary](#).

Writing Your Own Packages

The manual [Writing R Extensions](#) (also contained in the R base sources) explains how to write new packages and how to contribute them to CRAN.

Repository Policies

The manual [CRAN Repository Policy](#) [PDF](#) describes the policies in place for the CRAN package repository.

Related Directories

[Archive](#)
    Previous versions of the packages listed above, and other packages formerly available.

[Orphaned](#)

Finding the right package for your task

- I want to do X –
   which package(s) can I use?
- I found several suitable packages –
   which one do I pick?

Typical workflow

- Find packages with right functionality
- Narrow down selection via high-level comparison
- Explore that selection in a more in-depth comparison
- Make your choice

R Weekly 2018-19 pkgdown, tweets, showcase

- Highlight
- New Packages
- Package Releases
- Resources
- Insights
- R in Organizations
- R in the Real World
- Tutorials
- R Project Updates

Live

- 📦 OscillatorGenerator Generation of Customizable, Discretized Time Series ofOscillating Species (cran.r-project.org)

- 📦 IDE Integro-Difference Equation Spatio-Temporal Models (cran.r-project.org)

- 📦 HiResTEC Non-Targeted Fluxomics on High-Resolution Mass-Spectrometry Data (cran.r-project.org)

More

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RcppGSL 0.3.4

May 7, 2018

By Thinking inside the box

A minor update version 0.3.4 of RcppGSL is now on CRAN. It contains an improved Windows build system (thanks, Jeroen!) and updates the C++ headers by removing dynamic exception specifications which C++11 frowns upon, and the compilers lets us know th...

Read more »

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Created and maintained by Sasha Goodman.
Est. 2007. Version 2.0.
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Welcome

to crantastic, a community site for R packages where you can search for, review and tag CRAN packages.

Most popular packages

1. **ggplot** 2. **rms** 3. **dplyr** 4. **fields** 5. **PairwiseD** ... **more!**

Recent activity

- OscillatorGenerator was **released** (about 1 hour ago)
- KRIS was **released** (about 1 hour ago)
- IDE was **released** (about 1 hour ago)

crantastic!

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Bayesian	Bayesian Inference
ChemPhys	Chemometrics and Computational Physics
ClinicalTrials	Clinical Trial Design, Monitoring, and Analysis
Cluster	Cluster Analysis & Finite Mixture Models
DifferentialEquations	Differential Equations
Distributions	Probability Distributions
Econometrics	Econometrics
Environmetrics	Analysis of Ecological and Environmental Data
ExperimentalDesign	Design of Experiments (DoE) & Analysis of Experimental Data
ExtremeValue	Extreme Value Analysis
Finance	Empirical Finance
FunctionalData	Functional Data Analysis
Genetics	Statistical Genetics
Graphics	Graphic Displays & Dynamic Graphics & Graphic Devices & Visualization
HighPerformanceComputing	High-Performance and Parallel Computing with R
MachineLearning	Machine Learning & Statistical Learning
MedicalImaging	Medical Image Analysis
MetaAnalysis	Meta-Analysis
ModelDeployment	Model Deployment with R
Multivariate	Multivariate Statistics
NaturalLanguageProcessing	Natural Language Processing
NumericalMathematics	Numerical Mathematics
OfficialStatistics	Official Statistics & Survey Methodology
Optimization	Optimization and Mathematical Programming
Pharmacokinetics	Analysis of Pharmacokinetic Data
Phylogenetics	Phylogenetics, Especially Comparative Methods
Psychometrics	Psychometric Models and Methods
ReproducibleResearch	Reproducible Research

CRAN

Mirrors
What's new?
Task Views
Search

About R

R Homepage
The R Journal

Software

R Sources
R Binaries
Packages
Other

Documentation

Manuals
FAQs
Contributed

CRAN Task View: Econometrics

Maintainer:	Achim Zeileis
Contact:	Achim.Zeileis at R-project.org
Version:	2018-04-24
URL:	https://CRAN.R-project.org/view=Econometrics

Base R ships with a lot of functionality useful for computational econometrics, in particular in the stats package. This functionality is complemented by many packages on CRAN, a brief overview is given below. There is also a considerable overlap between the tools for econometrics in this view and those in the task views on Finance, SocialSciences, and TimeSeries. Furthermore, the Finance SIG is a suitable mailing list for obtaining help and discussing questions about both computational finance and econometrics.

The packages in this view can be roughly structured into the following topics. If you think that some package is missing from the list, please contact the maintainer.

Basic linear regression

- *Estimation and standard inference* : Ordinary least squares (OLS) estimation for linear models is provided by `lm()` (from stats) and standard tests for model comparisons are available in various methods such as `summary()` and `anova()`.
- *Further inference and nested model comparisons* : Functions analogous to the basic `summary()` and `anova()` methods that also support asymptotic tests (z instead of t tests, and Chi-squared instead of F tests) and plug-in of other covariance matrices are `coeftest()` and `waldtest()` in lmtest. Tests of more general linear hypotheses are implemented in `linearHypothesis()` and for nonlinear hypotheses in `deltaMethod()` in car.
- *Robust standard errors* : HC and HAC covariance matrices are available in sandwich and can be plugged into the inference functions mentioned above.
- *Nonnested model comparisons* : Various tests for comparing non-nested linear models are available in lmtest (encompassing test, J test, Cox test). The Vuong test for comparing other non-nested models is provided by nonnest2 (and specifically for count data regression in pscl).
- *Diagnostic checking* : The packages car and lmtest provide a large collection of regression diagnostics and diagnostic tests.

Microeconometrics

- *Generalized linear models (GLMs)* : Many standard microeconometric models belong to the family of generalized linear models and can be fitted by `glm()` from package stats. This includes in particular logit and probit models for modeling choice data and Poisson models for count data. Effects for typical values of regressors in these models can be obtained and visualized using effects. Marginal effects tables for certain GLMs can be obtained using the mfx and margins packages. Interactive visualizations of both effects and marginal effects are possible in LinRegInteractive.

METACRAN: Search and browse all CRAN/R packages

12,529 active packages

7,200 package maintainers

287 updates last week

12,617,091 downloads last week

Featured packages

xgboost
Extreme Gradient Boosting

0.6.4.1, published 3 months ago, by Tong He

ggplot2
Create Elegant Data Visualisations Using the Grammar of Graphics

2.2.1, published a year ago, by Hadley Wickham

h2o
R Interface for 'H2O'

3.18.0.8, published 5 days ago, by Tom Kraljevic

shiny
Web Application Framework for R

1.0.5, published 8 months ago, by Winston Chang

dplyr
A Grammar of Data Manipulation

0.7.4, published 7 months ago, by Hadley Wickham

dbplyr
A 'dplyr' Back End for Databases

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feather
R Bindings to the Feather 'API'

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devtools
Tools to Make Developing R Packages Easier

1.13.5, published 3 months ago, by Jim Hester

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Most downloaded

High Level Comparison

- Is it stable?
- Is it actively maintained?
- What about tests?
- What about documentation?
- Who wrote the package?

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packagemetrics

🔗 About packagemetrics

The packagemetrics project was a part of the 2017 rOpenSci Unconference. With over 10,000 packages on CRAN - and thousands more on GitHub and Bioconductor - a useR needs a way to navigate this wealth of options. There are many existing tools that are helpful for finding packages, but few ways to quickly compare differences between packages. We set out to create tools for comparing a set of related and potentially overlapping packages through a combination of standardized packagemetrics and an expert review process. More information about our project can be found in this post.

Team packagemetrics:

Lori Shepherd, Hannah Frick, William Ampeh, Erin Grand, Sam Firke, Becca Krouse

Installation

```r
devtools::install_github("ropenscilabs/packagemetrics")
```

Use

```r
pkg_df <- package_list_metrics(table_packages) # included vector of table pkgs
ft <- metrics_table(pkg_df)
```

package	published	dl_last_month	stars	tidyverse_happy	has_tests	vignette	last_commit	last_issue_closed	contributors	depends_count	r
arsenal	2017-12-08	1177	6		✖	✔		0.1	12	2	
ascii	2011-09-29	2056	19		✖		33.7	71	0	3	
compareGroups	2017-08-30	738			✖	✔				5	
condformat	2017-10-19	346	8	🍸	✔	✔		0.5	5		
desctable	2017-05-15	170	34	🍸	✖	✔	6.9	5.1	2	1	

packageMetrics2

`repo status` `WIP` `build` `unknown` `CRAN` `not published` `downloads` `0/month` `codecov` `unknown`

This package is used to collect metrics about CRAN, BioConductor or other packages, for Valid-R.

Installation

```
remotes::install_github("mangothecat/packageMetrics2")
```

Usage

```
library(packageMetrics2)
```

```
metrics <- package_metrics("remotes")
```

```
head(metrics)
```

```
#>              ARR                  ATC                 DWL
#>              "0" "94.2539388322521"             "69747"
#>              DEP                  DPD                 CCP
#>              "4"                  "2" "2.68939393939394"
```

Package review

- Try it out!
- Academic journals, e.g., Journal of Statistical Software and R Journal
- rOpenSci review and Journal of Open Source Software
- goodpractice package

All the links

Discover
- R-bloggers https://www.r-bloggers.com/
- R Weekly https://RWeekly.org/
- Rseek https://rseek.org/
- Crantastic! https://crantastic.org/
- CRAN Task Views https://cran.r-project.org/web/views/
- METACRAN https://www.r-pkg.org/

Compare
- packagemetrics https://github.com/ropenscilabs/packagemetrics
- packageMetrics2 https://github.com/MangoTheCat/packageMetrics2

Review
- Journal of Statistical Software https://www.jstatsoft.org/
- R Journal https://journal.r-project.org/
- rOpenSci https://ropensci.org/ + Journal of Open Source Software
- goodpractice https://github.com/MangoTheCat/goodpractice