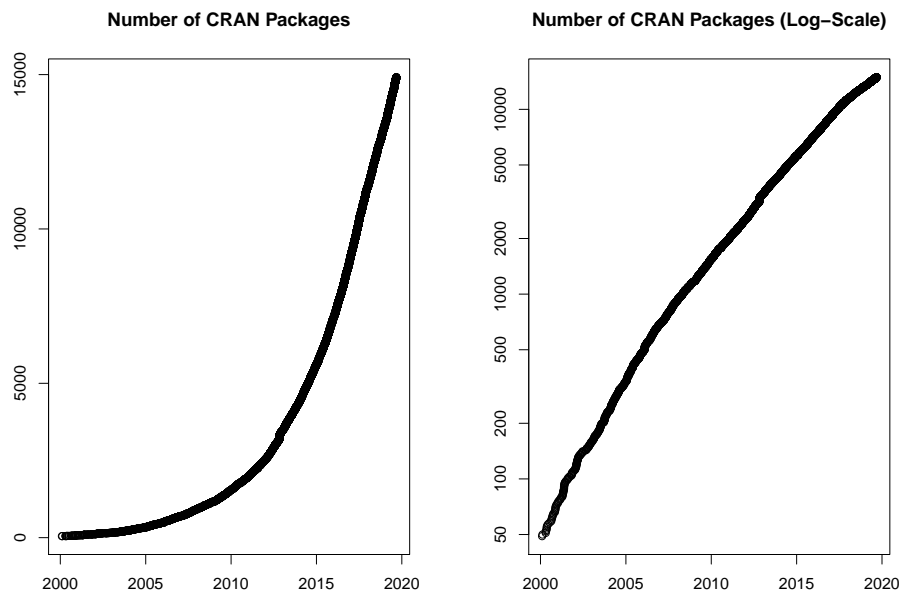# Changes on CRAN

2019-01-01 to 2019-08-31

by Kurt Hornik, Uwe Ligges and Achim Zeileis

In the past 8 months, 1524 new packages were added to the CRAN package repository. 71 packages were unarchived and 302 were archived. The following shows the growth of the number of active packages in the CRAN package repository:

On 2019-08-31, the number of active packages was around 14882.

Changes in the CRAN Repository Policy

The Policy now says the following:

- Packages should not attempt to disable compiler diagnostics, nor to remove other diagnostic information such as symbols in shared objects.

CRAN package submissions

During the first 6 months of 2019 (January to June), CRAN received 13217 package submissions. For these, 22412 actions took place of which 14856 (66%) were auto processed actions and 7556 (34%) manual actions.

Minus some special cases, a summary of the auto-processed and manually triggered actions follows:

	archive	inspect	newbies	pending	publish	recheck	waiting
auto	3300	2419	3130	32	3894	1202	879
manual	3198	14	428	76	2728	642	270

New categories in the table above are *newbies* (a specific queue for the manual inspection of first time CRAN submissions) and *waiting* (packages for which the CRAN team waits for an answer from the maintainer).

These include the final decisions for the submissions which were

action	archive	publish
auto	3053 (24.6%)	3394 (25.0%)
manual	3146 (23.9%)	3205 (26.5%)

where we only count those as *auto* processed whose publication or rejection happened automatically in all steps.

The CRAN team has grown. While Swetlana Herbrandt is very active in processing the *newbies* queue voluntarily, the new team members Martina Schmirl and Matthias Sterrer joined and processed a lot of packages during the first half of the year. Recently Matthias has left and Jelena Saf joined the team. Thanks a lot!

CRAN mirror security

Currently, there are 93 official CRAN mirrors, 63 of which provide both secure downloads via 'https' *and* use secure mirroring from the CRAN master (via rsync through ssh tunnels). Since the R 3.4.0 release, chooseCRANmirror() offers these mirrors in preference to the others which are not fully secured (yet).

New CRAN task views

Hydrology Topic: Hydrological Data and Modeling. Maintainer: Sam Zipper, Sam Albers, Ilaria Prosdocimi. Packages: **CityWaterBalance**, **CoSMoS**, **EGRET**, **EGRETci**, **EcoHydRology***, **Ecohydmod**, **Evapotranspiration**, **FAdist**, **FlowScreen**, **GSODR**, **GWSDAT**, **HydroMe**, **IDF**, **LPM**, **MBC**, **MODISTools**, **MODIStsp**, **RHMS**, **RMAW-GEN**, **RNCEP**, **RSAlgaeR**, **SCI**, **SPEI**, **SWATmodel**, **TUWmodel**, **WRSS**, **WRTD-Stidal**, **WaterML**, **Watersheds**, **airGR**, **airGRteaching**, **berryFunctions**, **bigleaf**, **biotic**, **bomrang**, **boussinesq**, **clifro**, **climatol**, **climdex.pcic**, **countyweather**, **dataRetrieval**, **dbhydroR**, **driftR**, **dynatopmodel**, **ecoval**, **geoknife**, **geotopbricks**, **getMet**, **hddtools**, **humidity**, **hydroApps**, **hydroGOF***, **hydroPSO**, **hydroTSM***, **hydrogeo**, **hydrolinks**, **hydroscoper**, **hydrostats**, **hyfo**, **kitagawa**, **kiwisR**, **kwb.hantush**, **lakemorpho**, **lfstat**, **lulcc**, **meteo**, **meteoland**, **musica**, **nhdR**, **nsRFA**, **qmap**, **rdwd**, **reservoir**, **rnoaa**, **rnrfa**, **rpdo**, **rsoi**, **rtop**, **rwunderground**, **smapr**, **soilwater**, **somspace**, **streamDepletr**, **swmmr**, **tidyhydat**, **topmodel**, **washdata**, **wasim**, **water**, **waterData**, **weathercan**, **worldmet**, **wql**.

TeachingStatistics Topic: Teaching Statistics. Maintainer: Paul Northrop. Packages: **ACSWR**, **AER**, **AtelieR**, **BaM**, **BayesDA***, **Bolstad**, **ElemStatLearn**, **HSAUR3**, **ISwR**, **LearnBayes**, **MASS***, **MPV**, **ProfessR**, **Rcmdr***, **RndTexExams**, **SMPracticals**, **Sleuth2**, **Sleuth3**, **TeachBayes**, **TeachingDemos**, **TexExamRandomizer**, **animation***, **distrTeach**, **exams***, **faraway**, **gganimate**, **ggplot2**, **infer**, **learnstats**, **moderndive**, **mosaic***, **openintro**, **shiny**, **smovie**, **swirl**, **vcd**, **visualize**, **xplain**.

(* = core package)

New packages in CRAN task views

Bayesian **BNSP**, **EntropyMCMC**, **pcFactorStan**, **plotMCMC**, **ssMousetrack**.

ChemPhys **ChemoSpec2D**, **eChem**.

Cluster **ClusterR**, **GMCM**, **NPflow**, **Spectrum**, **clusterCrit**, **somspace**.

Databases **RODBC**, **ora**.

DifferentialEquations **dde**.

Distributions **BMT**, **BenfordTests**, **BivGeo**, **CircStats**, **Emcdf**, **LindleyPowerSeries**, **MBSP**, **MEPDF**, **TLMoments**, **bivgeom**, **circular**, **cpd**, **distTails**, **dqrng**, **empichar**,

fromo, **gendist**, **gk**, **greybox**, **lcopula**, **llogistic**, **matrixNormal**, **matrixsampling**, **nCopula**, **pbv**, **probhat**, **qqid**, **qrandom**, **qrmtools**, **qrng**, **rmutil**, **tmvmixnorm**, **vistributions**.

Econometrics **PSTR**, **alpaca**, **apollo**, **bimets**, **estimatr**, **feisr**, **gravity**, **panelr**, **spatialreg**.

ExtremeValue **in2extRemes**, **ptsuite**.

Finance **DriftBurstHypothesis**.

FunctionalData **SCBmeanfd**, **funLBM**, **splinetree**.

HighPerformanceComputing **disk.frame**, **mvnfast**, **profvis**.

MachineLearning **BDgraph**, **RGF**, **naivebayes**, **ssgraph**.

MetaAnalysis **MOTE**, **MetaUtility**, **RobustRankAggreg**, **es.dif**, **estmeansd**, **metaRMST**.

MissingData **ddsPLS**, **lori**, **mimi**, **primePCA**.

ModelDeployment **cloudml**, **tfdeploy**.

NumericalMathematics **mvp**, **rootSolve**.

OfficialStatistics **EdSurvey**, **FAOSTAT**, **PxWebApiData**, **ecb**, **nomisr**, **pxweb**, **readabs**, **sdcHierarchies**, **sdcSpatial**.

Optimization **FLSSS**, **ROI.plugin.neos**, **optimParallel**.

Pharmacokinetics **PKNCA**, **PharmPow**, **caffsim**, **clinPK**, **microsamplingDesign**, **ncappc**, **pmxTools**, **xpose**.

Psychometrics **DIFboost**, **DIFtree**, **GLMMRR**, **GPCMlasso**, **Gifi**, **LAM**, **PCMRS**, **PLMIX**, **STARTS**, **dexterMST**, **dina**, **iccbeta**, **lisrelToR**, **lslx**, **mirtjml**, **pcFactorStan**, **psychTools**, **qcv**, **rrum**, **simcdm**.

Spatial **areal**, **mapedit**, **qualmap**, **rcosmo**, **spatialreg***, **tidycensus**, **tigris**, **viridis**.

SpatioTemporal **IDE**.

TimeSeries **BVAR**, **DChaos**, **FinTS**, **IncDTW**, **LongMemoryTS**, **RJDemetra**, **Rlgt**, **biwavelet**, **bundesbank**, **bvartools**, **changepoint.np**, **ggdemetra**, **mssm**, **mvLSW**, **otsad**, **regspec**, **robcp**, **runstats**, **timeseriesdb**, **tsfeatures**, **tsibbledata**, **tstools**, **wavScalogram**, **wwntests**.

WebTechnologies **AzureAuth**, **AzureContainers**, **AzureRMR**, **AzureStor**, **AzureVM**, **RSelenium**, **googleAuthR**, **paws**, **qualtRics**, **rscopus**, **shutterstock**, **splashr**, **zen4R**.

(* = core package)

Kurt Hornik
WU Wirtschaftsuniversität Wien, Austria
`Kurt.Hornik@R-project.org`

Uwe Ligges
TU Dortmund, Germany
`Uwe.Ligges@R-project.org`

Achim Zeileis
Universität Innsbruck, Austria
`Achim.Zeileis@R-project.org`