

Revision history for repwr repository

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January 28, 2018

Release 1.47 2019-01-28

- Add words to all documents on posting comments using social media

Release 1.46 2018-12-12

- Add css file used by stats and mesr documents

Release 1.45 2018-12-05

Support document describing [measures](#) (`mesr.Rmd`)

Minor edits to `mesr.Rmd`

Release 1.40 2018-12-03

Support document on [d2t-distribution functions](#) (`stats.Rmd`)

Fixed latent bug in `pi_d2t` function in `R/stats.R`. Code wasn't propagating `pred.level` to `ci_d2t`. Bug never triggered, because `pred.level` and `conf.level` have same default (0.95)

Release 1.31 2018-11-08

- Fix bugs revealed by generating document with `m=1e2`
- Add figures and tables for `m=1e2` and `m=1e3`, and ones inadvertently omitted for `m=1e4`
- Add data files needed to generate document: `mesr.*`, `smry.*`, `posr/*`

Release 1.30 2018-11-07

Support [supplementary material](#) (`resigsupp.Rmd`) for the shortened blog post with results that didn't fit in the published post for reasons of space or pedagogy

New files

- `R/doc_resigsupp.R` generates figures and tables for resig supplement
- `R/docfun_resig.R` contains functions used by `doc_resig`; extracted from `R/doc_resig.R`
- `R/docfun_resigsupp.R` contains functions used by `doc_resigsupp`; adapted from `R/docfun_resig.R`

Deleted files

- `R/doc_xperiment.R` was just a stub that became obsolete

Major code changes

- New mechanism for generating figure and table names

- names may have document-specific prefix, be section-specific, and occur in blocks with incrementing suffixes (e.g., S2-1a)
- also handles names for ‘extra’ figures, ie, ones that don’t appear in the document
- New scheme for running sections in `doc_XXX` functions
 - runs sections in `sapply` loop to allow uniform per-section initialization and setup
 - supports new figure and table names
- Doc-specific initialization moved from `init` to `init_doc` in `R/init.R`

Changed files

- `R/datman.R`
 - `filename_fig`, `figname`, `filename_tbl`, `tblname` implement new figure and table names
 - extends `filename` to handle NULL components
- `R/doc.R`
 - `dodoc` uses `wrap_fun` to parcel parameters between `init`, `init_doc`, `doc_XXX` function
 - `dofig` and `dotbl` use new figure and table names
 - `figinc`, `tblinc`, etc. manage figure and table names
 - `dofig` uses `wrap_fun` to pass correct parameters to `figfun`
- `R/doc_readme.R`, `R/doc_repwr.R`,
 - uses new scheme for running sections
- `R/doc_resig.R`
 - uses new scheme for running sections
 - uses `xdata_near` to generate data for nearexact case
 - removed code for functions called by `doc_resig` - moved to `R/docfun_resig.R`
 - removed code for supplement - moved to `R/doc_resigsupp.R`
- `R/init.R`
 - moved doc-specific initialization from `init` to `init_doc`
 - `init_doc` includes initialization for new figure and table names
- `R/plot.R`
 - renamed `legend.where` to `legend` throughout - that’s what `doc_XXX` functions call it
 - when called the old way, `legend` matched `legend.where` and all was good.
 - with `wrap_fun` doesn’t happen because code looks for exact parameter name
 - change arguments to all top-level functions for new figure names
 - fix recurrent bugs that cause matrices to become vectors when selecting single row or column
 - fix bug in `ragm_legend` that caused labels to misalign
- `R/repwr.R`, `R/resig.R`
 - `run` uses `wrap_fun` to parcel parameters between `init`, `dodata`, `dodoc`
- `R/sim_resig.R`
 - `doposr` creates `bias1` `posr` needed by `resig` supplement
- `R/util.R`
 - `wrap_fun` propagates locals and dots (...) to called function
 - `ucfirst` upper-cases first letter of string
 - extends `cq` to handle more atomic types
- `R/Xperiment/detl_conditional.R`, `R/Xperiment/detl_handcrafted.R`
 - port to new `run`, `init` schemes
- `R/Xperiment/hack_proptrue.R`, `R/Xperiment/uri_answer01.R`
 - port to new `run`, `init`, section-running schemes

Release 1.21 2018-09-27

Fix typos and restore code accidentally deleted in version 1.20

Release 1.20 2018-09-26

Support shortened blog post, [Systematic Replication May Make Many Mistakes](#) (`resig.Rmd`), kindly posted by Bob Reed on [The Replication Network](#)

New files

- `R/doc_resig.R` generates figures and tables for resig blog post
- `R/sim_resig.R` like `R/sim.R` but only computes measures needed for resig blog post: `sig1`, `sig2`, `sdir`
- `R/resig.R` like `R/repwr.R` but loads resig-specific files

Code changes

- Many changes to `R/plot.R` to support resig blog post:
 - Added ‘`plotratm`’ function to plot multiple rates for a single measure
 - Added ‘`spline`’ smoothing method
 - Added more line properties to ‘`extra`’ vertical and horizontal lines. Still a hack that will need further cleanup
 - Added specialized function for resig figure titles
 - Added ability to omit legend
 - Added `plot.cutoff` control consistently to all top level functions
 - Added `col` parameter to all `plotXXXm` functions to set colors for rate
- Added spline smoothing method to all line plotting functions. Uses R’s `smooth.spline`

Bug fixes

- Fix bug due to `apply` converting single row matrix into vector. `sig...` Bug was present in several functions

Release 1.11 2018-08-31

Support third draft blog post [Systematic Replication Has Limited Power to Detect Bad Science](#) (`repwr.Rmd`).

Document changes

- Blog post (`repwr.Rmd`)
 - Add reference to new systematic replication study just published in Nature Human Behavior
 - Delete final paragraph with Oprah Winfrey quote: not really on-target
 - Add words on posting comments using GitHub Issue Tracker

Release 1.10 2018-08-22

Support second draft blog post [Systematic Replication Has Limited Power to Detect Bad Science](#) (`repwr.Rmd`).

Document changes

- Blog post (`repwr.Rmd`)
 - Change title and added words in the Abstract, Introduction, and Discussion to clarify that the post is about *systematic* replications
 - Add references suggested by readers
 - Add more emphasis to David Colquhoun’s point about taking into account the prior probability that studies are true
 - Add terms suggested by readers: *direct replication*, *conceptual replication*, *study heterogeneity*
 - Add sentence noting that “measures answer different questions, but all appear in papers or posts as tests to accept or reject replications” as suggested by reader
- README
 - Reflect changes to `dodata` and `dodoc` interfaces and `clean` default

- Remove mention of technical notes document - no point making promises I may not keep
- Add mention of previous version (1.00) of blog post

Design changes

- Refactor data aggregation code into `data_agg` function and `drag` data type
- Add support for experimental sandbox code, mainly to document sandbox projects
- Improve `dodata`, `dodoc` interfaces. These are top-level functions called by `run`. May also be called directly
 - Move processing of default values to `init`
 - Move `figscreen`, `fignew` parameters from `dodoc` to `init` because they depend on `doc` which is not fully set until `init`
 - In `dodoc`, set default for `docfun` after `init` for same reason
 - In `dodoc`, prefix match xperiment `doc` for same reason
 - Add `need.init` parameter to avoid rerunning `init` when called from `run`
 - Set default for `need.init` to `TRUE` so top-level calls will run `init`
- Move `rate.type` conversion from `drat_order` to `data_rate`; this is the natural place where I expect it to be
- Add ability to save figures to files without first plotting to screen; much faster!

Changes to directory and repo organization

- Add version-specific copies of blog post documents
- Remove data files from repo. I was only storing files needed to draw figures which seemed like good idea but interacts poorly with caching scheme. With the data files gone, user has to generate data before drawing figures
- Generate figures for non-default values of `m`; just for completeness

Bug fixes

- Setting `from.type`, `relto.type` in plot functions does not select desired `posr`
 - Caused by conflicting parameter defaults. `plotrate` and related functions provide default values for `from.type`, `relto.type`, `posr.id` and pass the values to called functions. By the time the values make it to `get_posr` which does the work, it looks like all three parameters were set by the original caller. `get_posr` calls `casename_posr` which lets `id` supersede the others
 - Opted for simplest solution. Always use `posr.id` to identify `posr`. Give up trying to use `from.type`, `relto.type`
- Make sure `data.list` exists before trying to delete elements

Code cleanup

- Add `vhltty` parameter to plot functions to set line type for extra vertical and horizontal lines; quick hack, not very general
- Consolidate documentation (still just in comments, sorry) for all aggregate plot functions
- Change default for ‘smooth’ in aggregate plots to `aspline`
- Require xperiment (experimental sandbox) `doc` types to explicitly set `n`, `d`, `m` to support multiple experimental sandboxes
- Change `clean.figure` to `clean.fig` for stylistic consistency in `init`
- Change calls to `filename` function to `file.path` for stylistic consistency
- Set default for `clean` to `FALSE` for all `doc` types; setting it `TRUE` for `doc=readme` simplified README document but complicated interactive use
- Set default for `clean.memlist` to `TRUE`; setting it based on `clean` led to hard-to-find bugs caused by stale data in `memlist` cache
- Remove ability for a single `figfun` call to draw multiple figures; doesn’t work with new scheme for saving figures and I no longer use this feature

Release 1.00 2018-07-27

Support first draft blog post [Systematic Replication Has Limited Power to Detect Bad Science](#) (`repwr.Rmd`) sent to external readers for feedback.

Release 0.93 2018-07-25

Release candidate

This version is nearly a complete rewrite of the previous version. Some highlights are

- Remove obsolete scripts including `R/scope.R` and `R/distr.R`
- Add `R/repwr.R` and many other scripts
- For data, add current top-level files needed for analysis and plotting. Did not add data subdirectories as these are huge (261MB for $m=1e3$, 980MB for $m=1e4$) and not needed once the simulation is done

Release 0.92 2018-01-01

`scope.R`

- Add `plot_cross`, `plot_pclose1`
- Integrate `d2t` probability functions from `distr.R`
- Systematically precompute useful data tables: `d1`, `d33`, `dcross`, `dsig`, `dclose`, `dcrit`

`distr.R`

- Add `pval2t`, `pval2d` functions
- Correct usage of `lower.tail` parameter in `d2t` probability functions

Release 0.91 2017-12-19

- Change sampling distribution from normal to noncentral t.
- Remove unused code.
- Clean up code for translating Cohen's d to t-statistic and t-distribution; simplify function names.

Release 0.90 2017-12-07

First version. Ready for feedback from external readers.

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