simmer

simmer is a process-oriented and trajectory-based Discrete-Event Simulation (DES) package for R. Designed to be a generic framework like SimPy (https://simpy.readthedocs.org) or SimJulia (http://simjuliajl.readthedocs.org), it leverages the power of Rcpp (http://www.rcpp.org/) to boost the performance and turning DES in R feasible. As a noteworthy characteristic, simmer exploits the concept of *trajectory*: a common path in the simulation model for entities of the same type. It is pretty flexible and simple to use, and leverages the chaining/piping workflow introduced by the magrittr (https://github.com/smbache/magrittr) package.

Extensions

Package	Description	Status
simmer.plot (http://r-simmer.org/extensions/plot)	Plotting Methods for `simmer`	CRAN 0.1.16 (https://cran.r-project.org/package=simmer.plot)
simmer.bricks (http://r-simmer.org/extensions/bricks)	Helper Methods for `simmer` Trajectories	CRAN 0.2.1 (https://cran.r-project.org/package=simmer.bricks)
simmer.optim (https://github.com/r-simmer/simmer.optim)	Parameter Optimization Functions for `simmer`	lifecycle dormant (https://www.tidyverse.org/lifecycle/#dormant)
simmer.json (https://github.com/r-simmer/simmer.json)	Read / Load `simmer` Definitions in JSON Format	lifecycle dormant (https://www.tidyverse.org/lifecycle/#dormant)
simmer.mon (https://github.com/r-simmer/simmer.mon)	Monitoring Backends for `simmer`	lifecycle experimental (https://www.tidyverse.org/lifecycle/#experimental)

Mailing list

For bugs and/or issues, create a new issue on GitHub. For other questions or comments, please subscribe to the simmer-devel mailing list (https://groups.google.com/forum/#!forum/simmer-devel). You must be a member to post messages, but anyone can read the archived discussions.

Documentation

Documentation is available at r-simmer.org/reference (http://r-simmer.org/reference). To get started, please explore our vignettes online (http://r-simmer.org/articles/), or in R:

```
vignette (https://rdrr.io/r/utils/vignette.html)(package = "simmer")
```

Installation

Install the release version from CRAN:

```
install.packages (https://rdrr.io/r/utils/install.packages.html)("simmer")
```

The installation from GitHub requires the remotes (https://cran.r-project.org/package=remotes) package.

```
remotes::install_github (https://remotes.r-lib.org/reference/install_github.html)("r-simmer/simmer")
```

Please note that the package contains some C++ code and thus you need a development environment to build the package (e.g., Rtools (https://cran.r-project.org/bin/windows/Rtools/) for Windows).

Hexagon stickers!

You can purchase `simmer` hex stickers on Redbubble (sticker 1 (https://www.redbubble.com/es/people/puratura/works/32157547-simmer-des-for-r?p=sticker), sticker 2 (https://www.redbubble.com/es/people/puratura/works/32155608-simmer-des-for-r?p=sticker)). Browse there for more stuff such as T-shirts and mugs!

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