

pkgreviewr

supporting rOpenSci package reviews through *guidance, automation and templating*



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rOpenSci software review

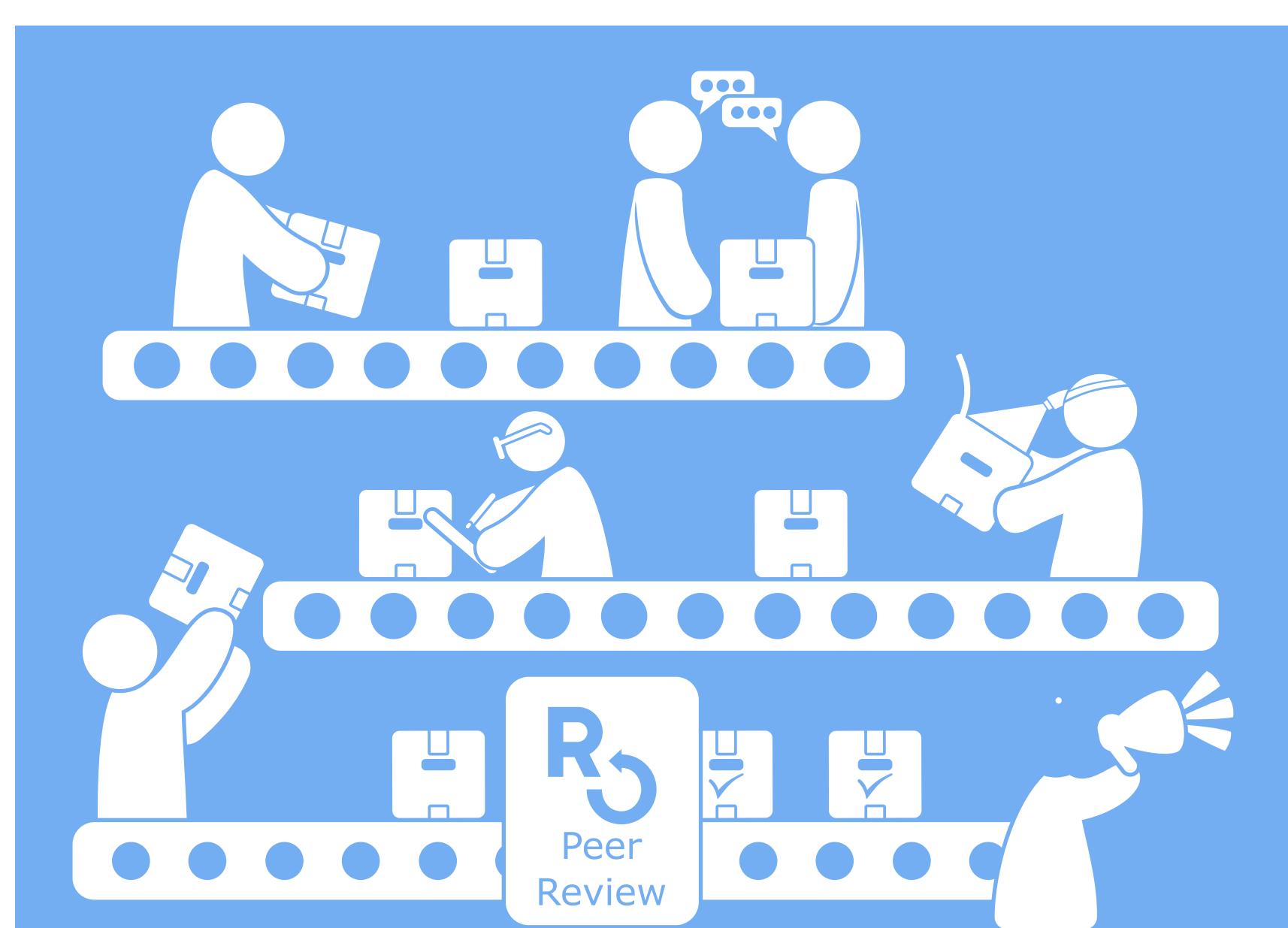
rOpenSci curate R software to help scientists access, download, manage, and archive scientific data in open, reproducible ways.

Q: How do we...

- Ensure the quality of code written by scientists without formal training in software development practices?
- Drive adoption of best practices among our contributors?
- Create a community that would support each other?

A: Through Open Peer Review!

<https://github.com/ropensci/software-review>



pkgreviewr

R package to help guide the review process through automation and templating.

<https://github.com/ropenscilabs/pkgreviewr>

Install package

```
remotes::install_github("ropenscilabs/pkgreviewr")
```

Initialise review

```
pkgreviewr::pkgreview_create(  
  pkg_repo = "AntonelliLab/outsider",  
  review_parent = "~/Documents/reviews/")
```

```
cloning into 'var/folders/8p/87cqdx2s34vfvcgh0416z72w000gn/T/  
RtmpFQv2Iv/pkgreviewr_prep/outsider'...  
Receiving objects: 100% (2379/2379), 1493 kb, done.  
✓ Package source cloned successfully  
✓ pkg_dir written out successfully  
✓ review project 'outsider-review' initialised successfully  
✓ Initialising Git repo  
✓ Adding files and committing  
✓ review_dir written out successfully
```

pkgreviewr_create() actions:

- Clones 📦 source code
- Initialises Review project:

```
└── outsider [20 entries exceeds filelimit]  
    └── outsider-review  
        ├── README.md  
        ├── index.Rmd  
        ├── outsider-review.Rproj  
        └── review.md
```

Anatomy of a review project

- **index.Rmd**: interactive parametrised workbook prepopulated with major steps required to complete the review.
- **pkgreviewr.Rmd**: up-to-date review response template to submit to the package rOpenSci software review issue.
- **README.md**: prepopulated review repo README.

index.Rmd

```
index.Rmd
```

```
24 # outsider - package review  
25 ## **Reviewer:** [Annakrystalli](https://github.com/annakrystalli)  
26  
27 *** Review Submitted:  
28   r catSprintf(**"Last updated: %s", Sys.Date())**  
29 ***  
30 ***  
31 ***  
32 ***  
33 <br>  
34 ***  
35 This report contains documents associated with the review of ***rOpenSci*** submitted package:  
36 *** **outider**: ropensci/software-review** issue [#282](https://github.com/ropensci/onboarding/issues/282).  
37 ***  
38 <br>  
39 ***  
40 ***  
41 ## Package info  
42 ***  
43 ***Description***  
44 ***  
45 Install and run external command-line programs in R through use of 'Docker' https://www.docker.com/ and online repositories.  
46 ***  
47 ***Author***: r person(Dom, "Bennett", role = c("aut", "cre"),  
48 email = "dominic.john.bennett@gmail.com",  
49 comment = c(CRANID = "0000-0003-7272-1359"))  
50 ***  
51 ***  
52 ## Repo url***: <a href="https://antonellilab.github.io/outider">https://antonellilab.github.io/outider</a>  
53 ***  
54 ***  
55 ## Review info  
56 ***  
57 ***  
58 *** See [Reviewer guidelines](https://ropensci.github.io/dev_guide/reviewerguide.html) for further information on the  
rOpenSci review process.  
59 ***  
60 *** Key review checks***  
61 ***  
62 - Does the code comply with *General Guidelines in the RStudio review  
   guide* (https://oxolionscience.github.io/codeReview/review.html)?***  
63 - Does the package *Copy* with the [rOpenSci packaging guide] (https://ropensci.github.io/dev\_guide/building.html)?***  
64 - Are there *Improvements* that could be made to the style?***  
65 - Are there *User Interface Improvements* that could be reduced?***  
66 - Are there *User Interface Improvements* that could be made?***  
67 - Are there *Performance Improvements* that could be made?***  
68 - Are there *Performance Improvements* that could be made?***  
69 ***  
70 ***  
71 Please be respectful and kind to the authors in your review. The rOpenSci 'Code of  
conduct' (https://ropensci.github.io/dev\_guide/policies.html#code-of-conduct) is mandatory for everyone involved in our review  
process.  
72 ***  
73 ***  
74 *** session info  
75 ***  
76 ***  
77 *** (r sessionInfo)  
78 sessionInfo()  
79 ***  
80 ***  
81 ***  
82 *** (r pkg_dir, echo = F)  
83 pkg_dir <- "Users/Anna/Documents/workflows/rOpenSci/reviews/outside"  
84  
85 ***  
86 *** Test installation  
87 *** test local outsider install:  
88 *** test_local outsider install:  
89 *** (r test-local)  
90 install(pkg_dir, dependencies = T, build_vignettes = T)  
91 ***  
92 *** (r github-repo)  
93 remove.packages("outsider")  
94 ***  
95 *** (r comments)***  
96 ***  
97 ***  
98 ***  
99 ***  
100 <-- record comments on local install here -->  
101 ***  
102 ***  
103 ***  
104 *** test install of 'outsider' from GitHub with:  
105 *** (r test-github)  
106 devtools::install_github("AntonelliLab/outsider", dependencies = T, build_vignettes = T)  
107 ***  
108 ***  
109 *** (r comments)***  
110 ***  
111 <-- record comments on github install here -->  
112 ***  
113 ***  
114 ***  
115 ***  
116 ***  
117 *** Check package integrity  
118 ***  
119 *** run checks on 'outsider' source:  
120 ***  
121 *** (r check-checks)  
122 devtools::check(pkg_dir)  
123 ***  
124 *** (r comments)***  
125 ***  
126 ***  
127 <-- record comments on checks here -->  
128 ***  
129 ***  
130 ***  
131 *** run tests on 'outsider' source:  
132 ***  
133 *** (r check-tests)  
134 devtools::test(pkg_dir)  
135 ***  
136 *** (r comments)***  
137 ***  
138 <-- record comments on tests here -->  
139 ***  
140 ***  
141 ***  
142 ***  
143 *** check 'outsider' for goodpractice:  
144 ***  
145 *** (r test-goodpractice)  
146 goodpractice::gp(pkg_dir)  
147 ***
```

pkgreviewr for editors

Initialise editorial checks

Before going to review, packages need to pass initial editor's checks. `pkgreviewr` can help!

```
pkgreviewr::pkgreview_create(  
  pkg_repo = "AntonelliLab/outsider",  
  review_parent = "~/Documents/editorials/",  
  template = "editor",  
  issue_no = 282)
```

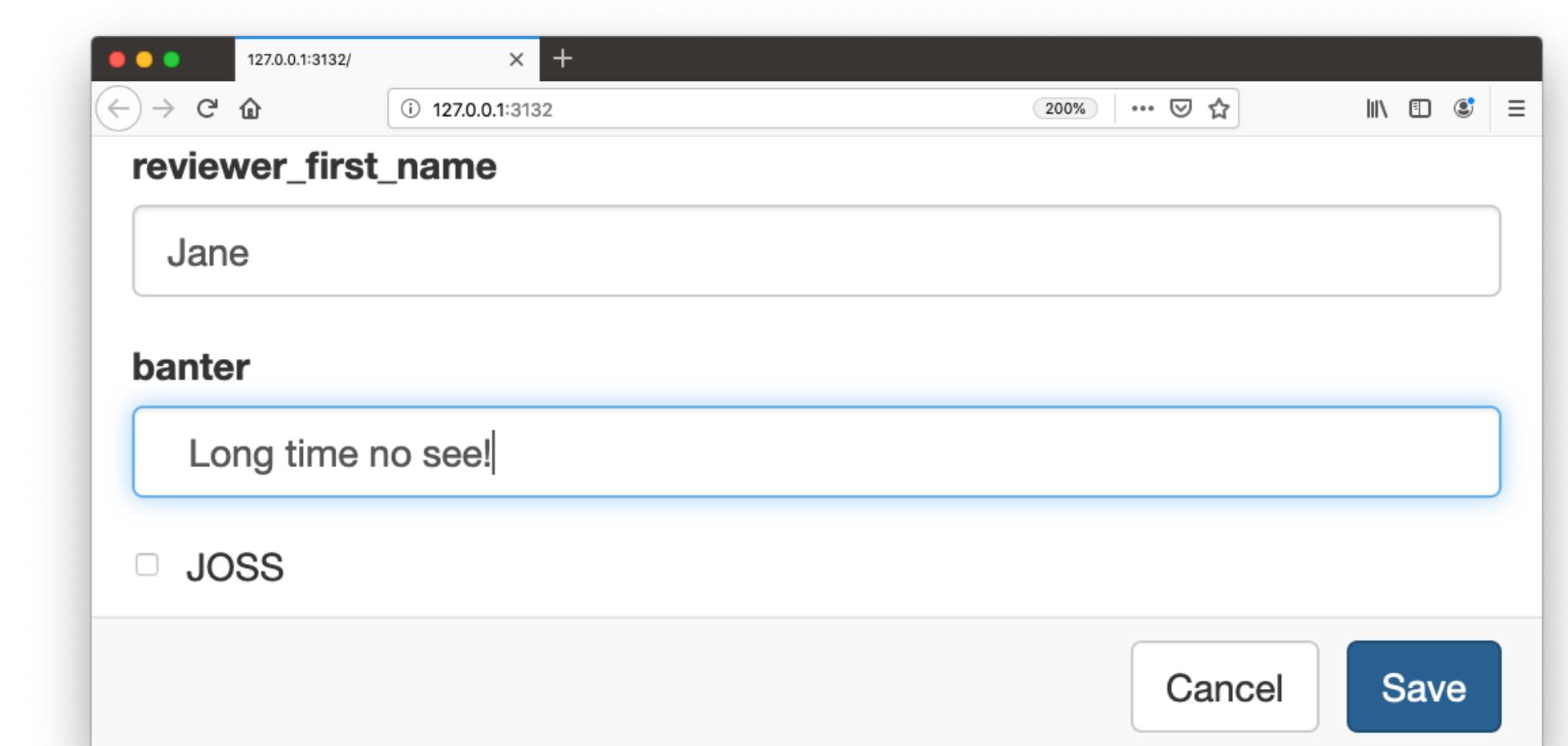
```
└── editor.md  
    └── index.Rmd  
        └── outsider-editor.Rproj  
            └── request.Rmd
```

Invite reviewers

Next stage is to find reviewers. `pkgreviewr` provides functionality for generating prepopulated invitations to review, ready to email out!

```
pkgreviewr::render_request()
```

Loading required package: shiny
Listening on http://127.0.0.1:3132



processing file: request.Rmd

|.....| 100%
inline R code fragments

Output created: request.html

```
request.html
```

Dear Jane
Hi, this is Anna from rOpenSci. Long time no see!
I'm writing to ask if you would be willing to review a package for rOpenSci. As you probably know, rOpenSci conducts peer review of R packages contributed to our collection in a manner similar to journals.
The package is outsider by Dom Bennett dominic.john.bennett@gmail.com [aut, cre] (<https://orcid.org/0000-0003-2722-1359>):
Install and run external command-line programs in R through use of 'Docker' <https://www.docker.com/> and 'GitHub' <https://github.com/>..
You can find it on GitHub [here](#). We conduct our open review process via GitHub as well, [here](#). If you accept, note that we ask reviewers to complete reviews in three weeks. (We've found it takes a similar amount of time to review a package as an academic paper).
Our reviewer guide details what we look for in a package review, and includes links to example reviews. Our standards are detailed in our packaging guide, and we provide a reviewer template for you to use. You can also use package `pkgreviewr` to help set up and guide your review. If you have questions or feedback, feel free to ask me or post to the rOpenSci forum. You can also try the rOpenSci slack community.
Are you able to review? If you can't, suggestions for alternate reviewers are always helpful. If I don't hear from you within a week, I will assume you are unable to review at this time.
Thank you for your time.
Sincerely,
Anna

