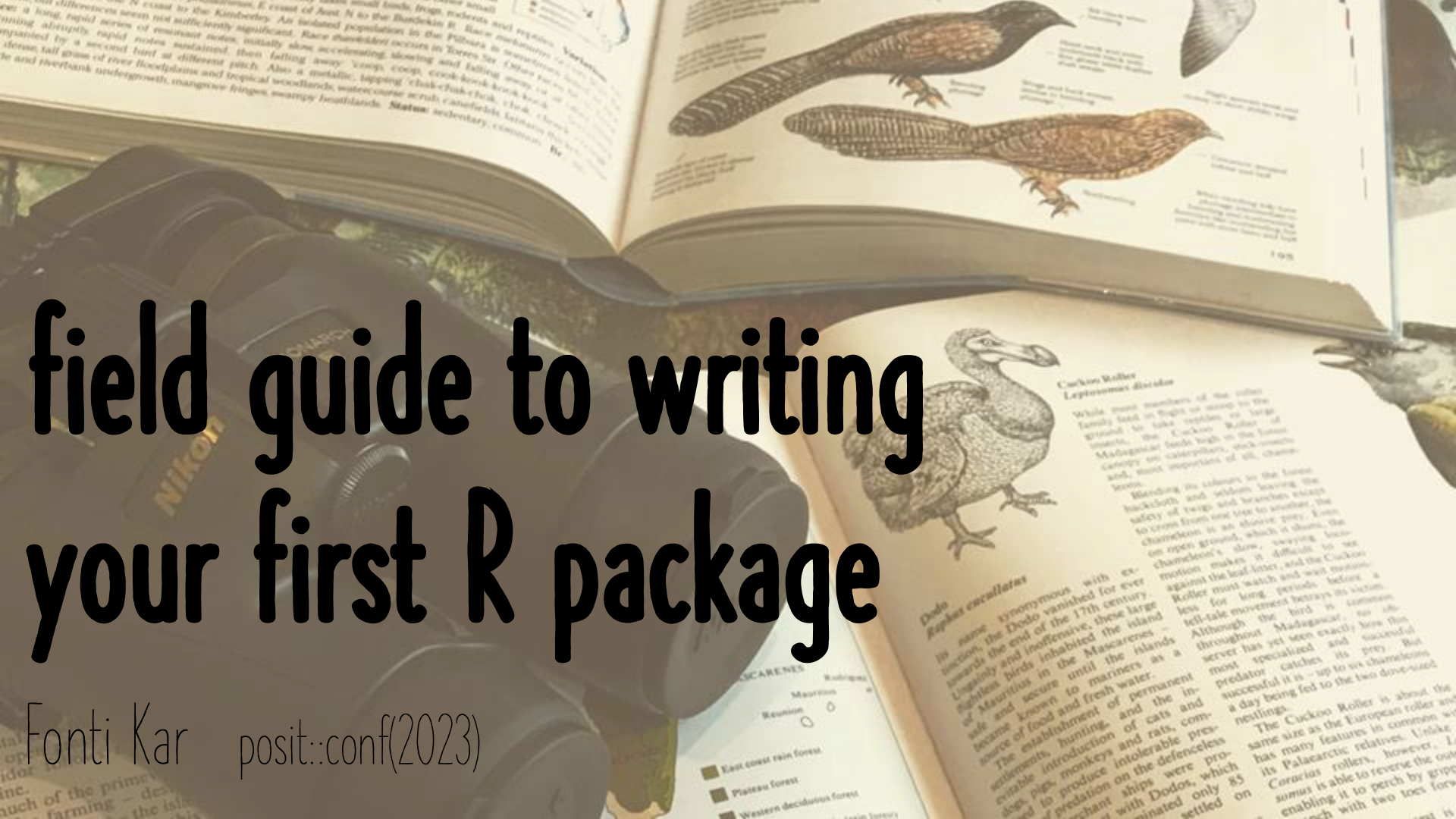
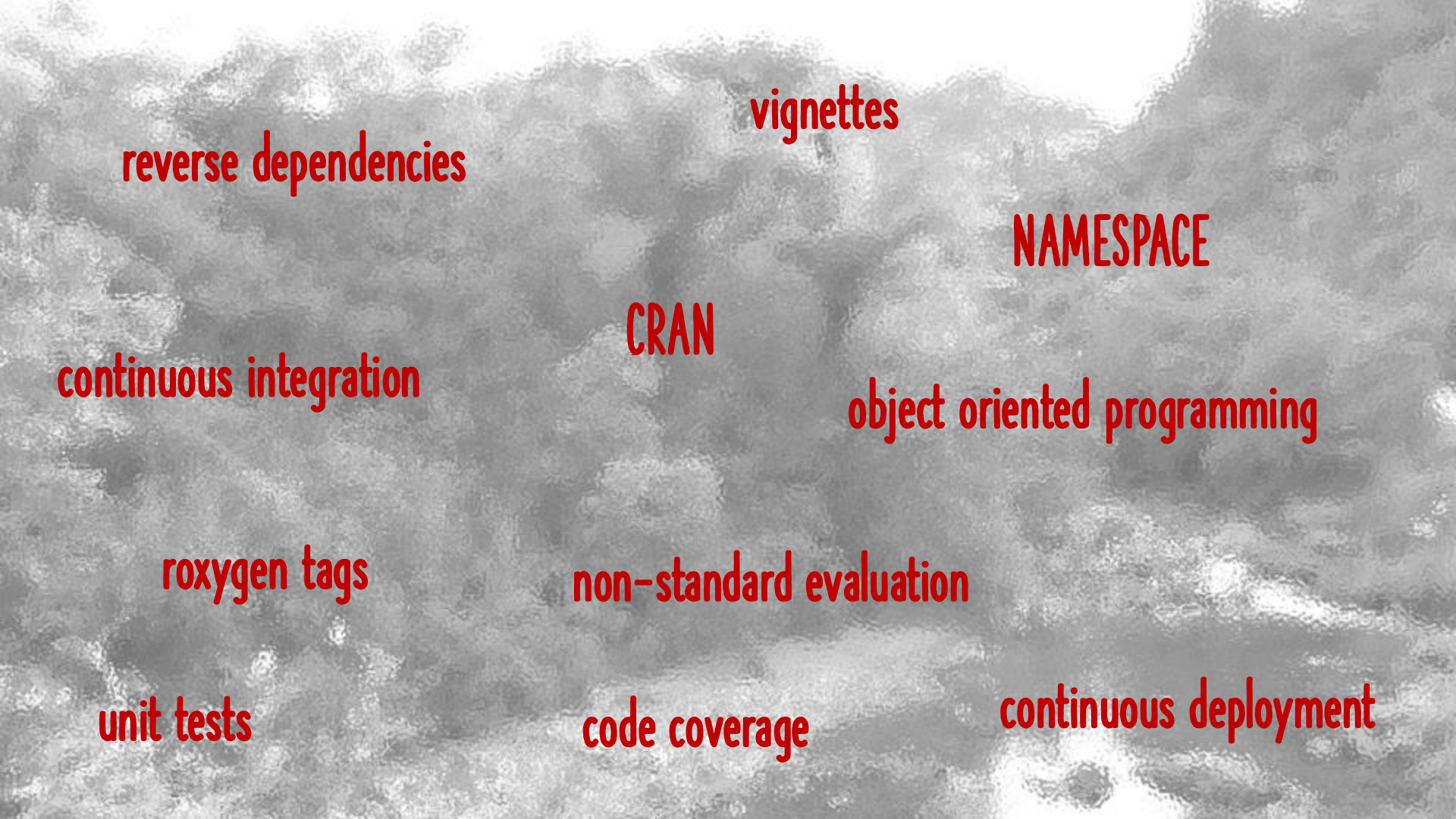


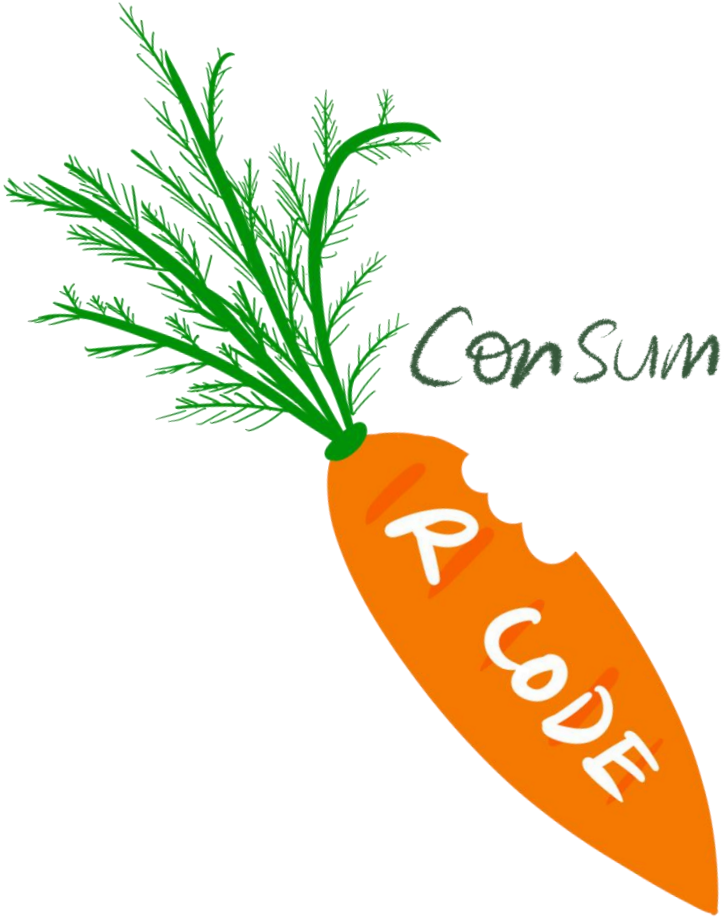
field guide to writing your first R package

Fonti Kar

posit::conf(2023)


social learning
phenotypic plasticity
fitness
environmental trait gradients
contest competition
adaptations
behavioural ecology
animal personality
ecophysiology


vignettes
reverse dependencies
NAMESPACE
CRAN
continuous integration
object oriented programming
roxygen tags
non-standard evaluation
unit tests
code coverage
continuous deployment

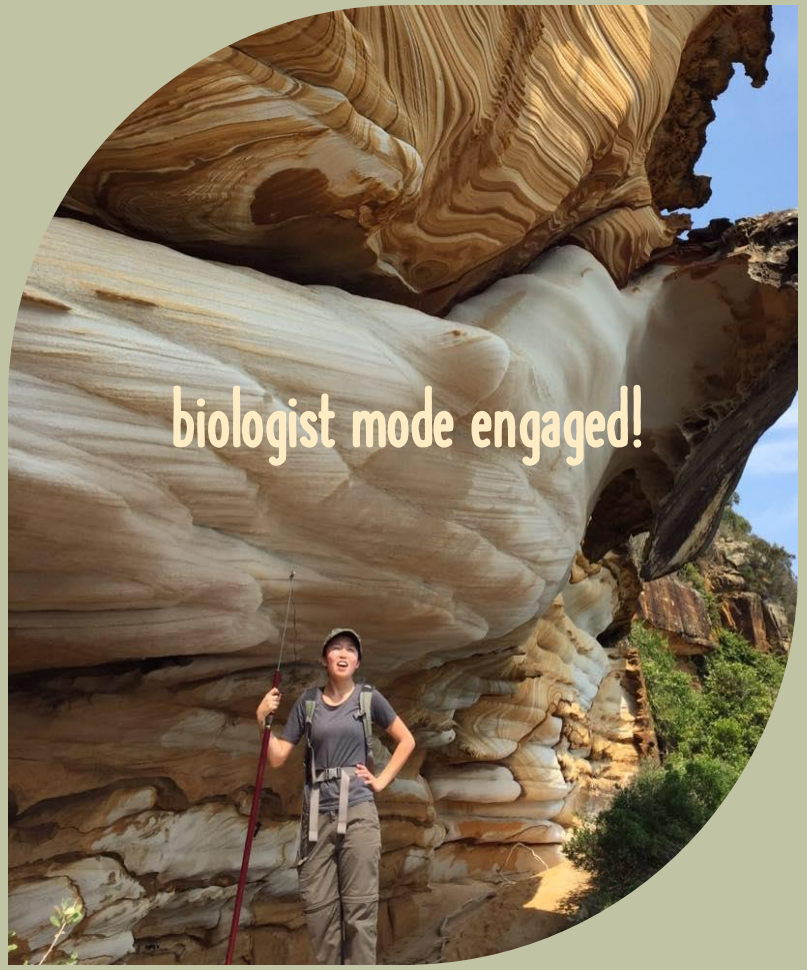


Consumer

producer

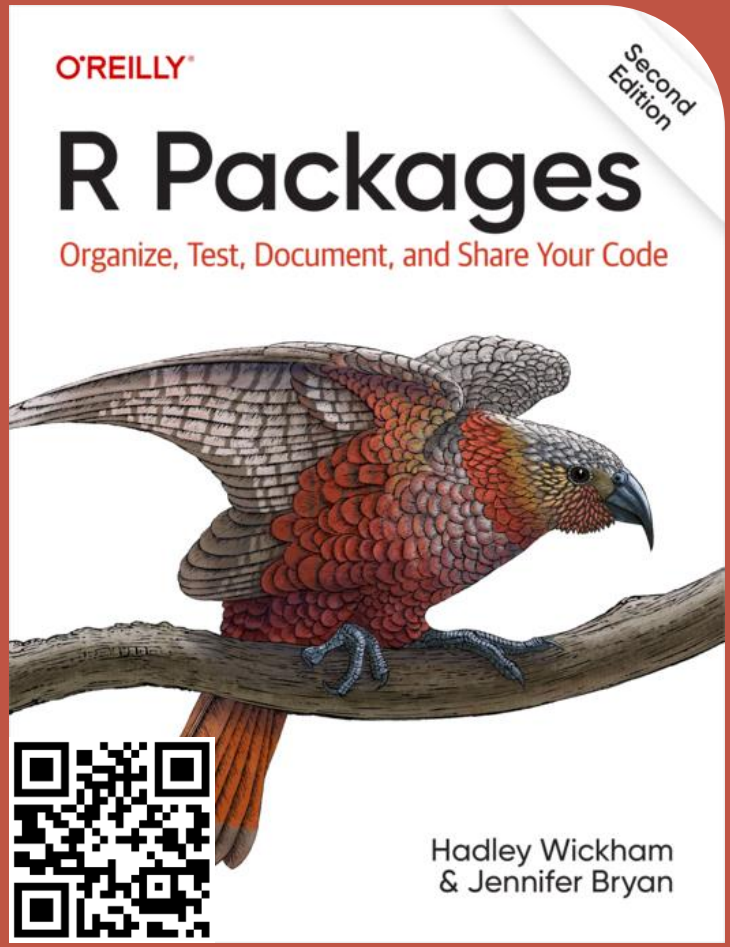

R CODE

field guide to writing your first R package



this field guide is not

- a step-by-guide
- about the technical stuff

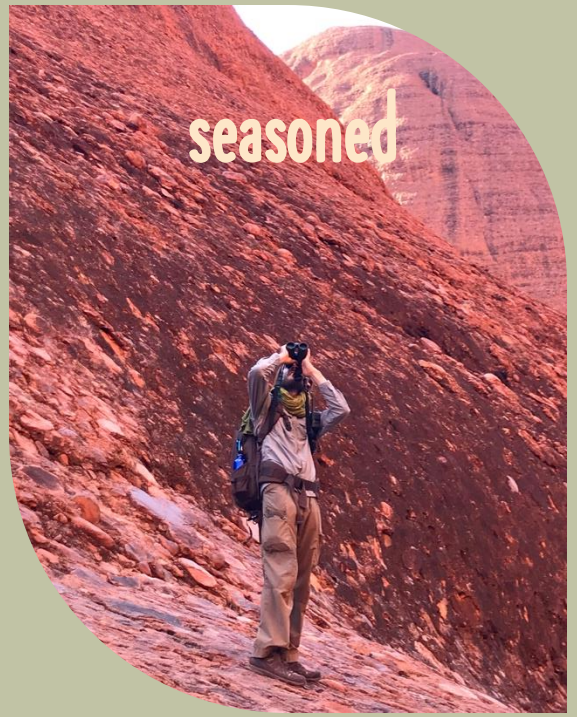


this field guide is

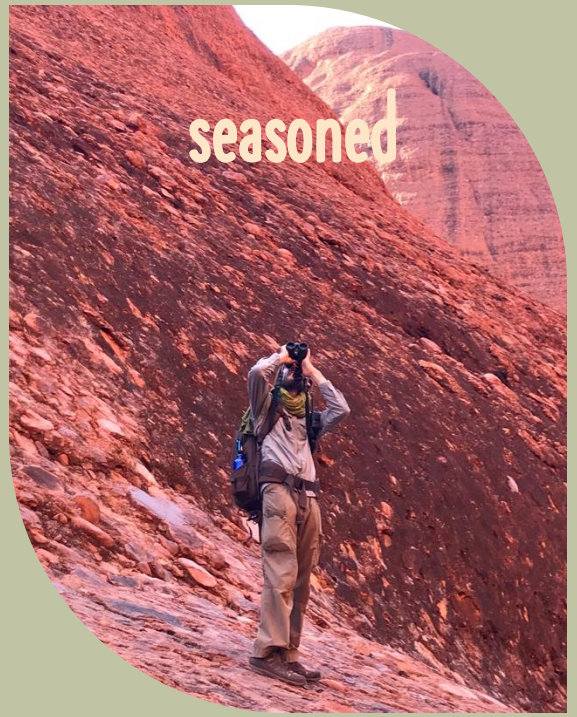
- an encouragement
- a gentle stroll
- a biologist's perspective


overwhelmed


overwhelmed


seasoned


overwhelmed

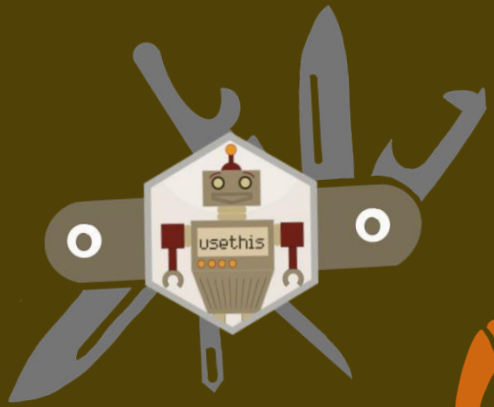

seasoned

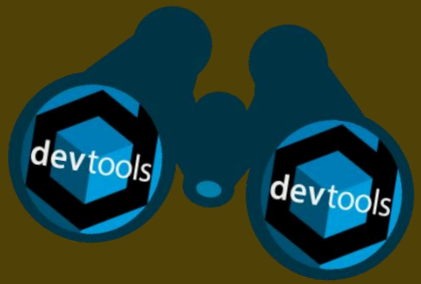

why build an
R package?

your code

problems

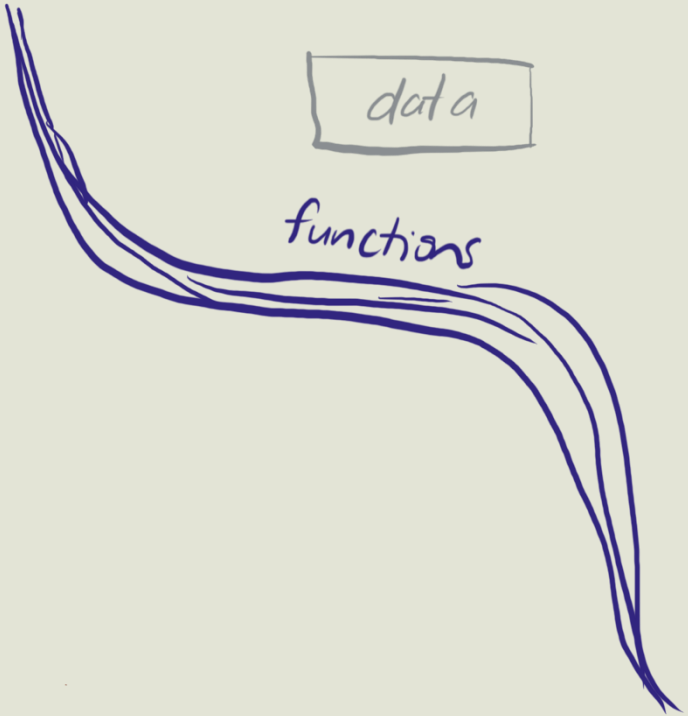
gear list



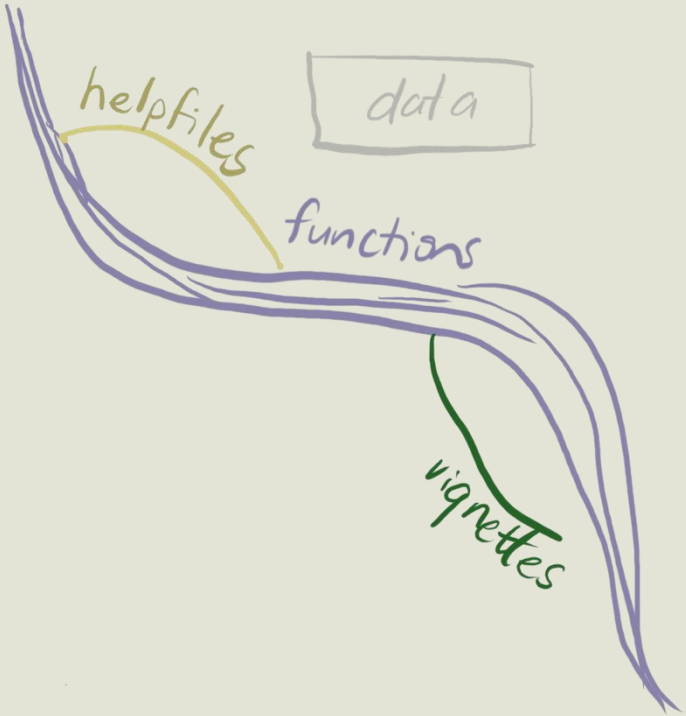



where to start?

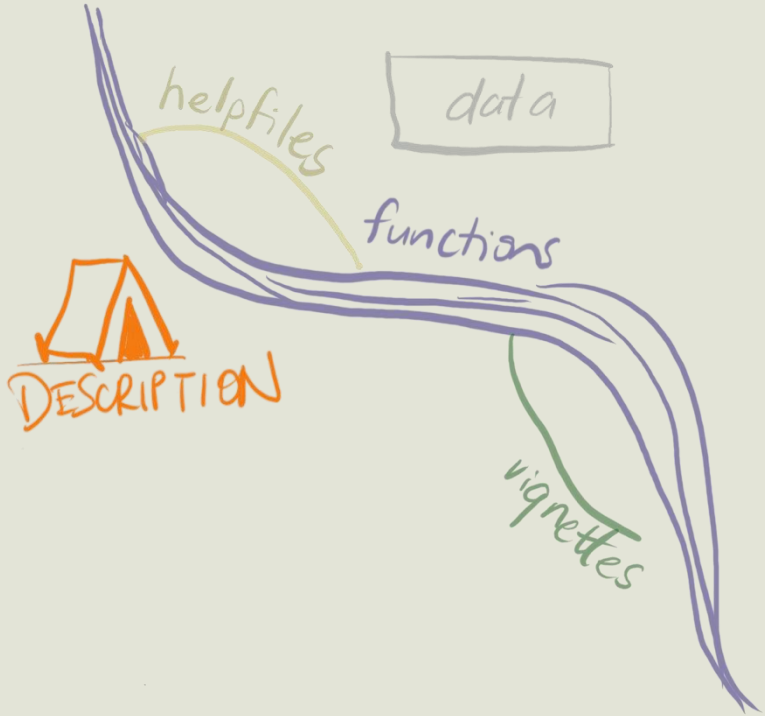
get the lay of the land



your ideas



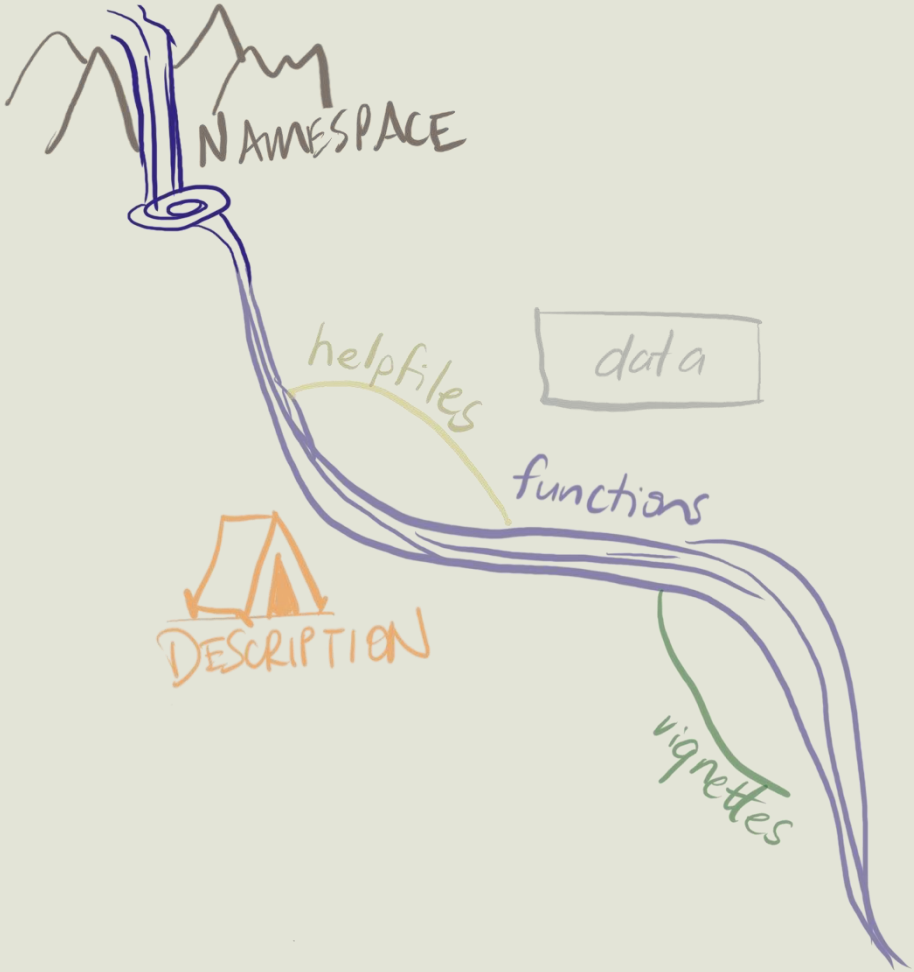
your pointers



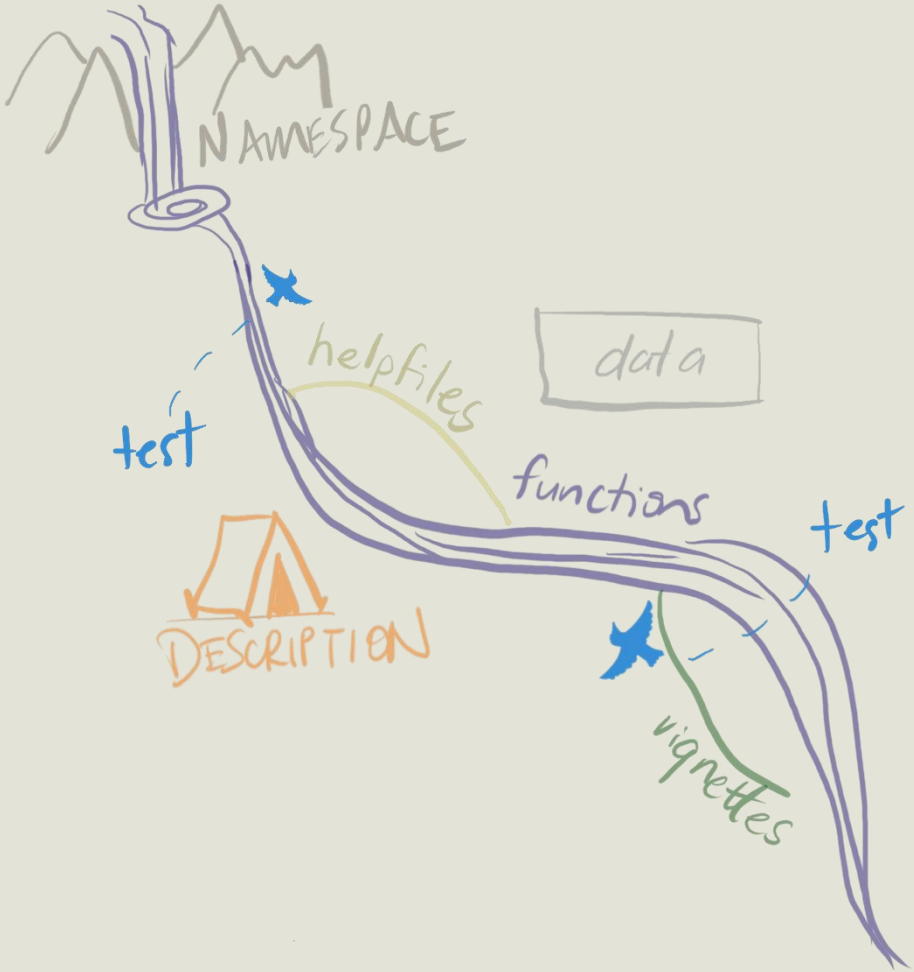
who

what

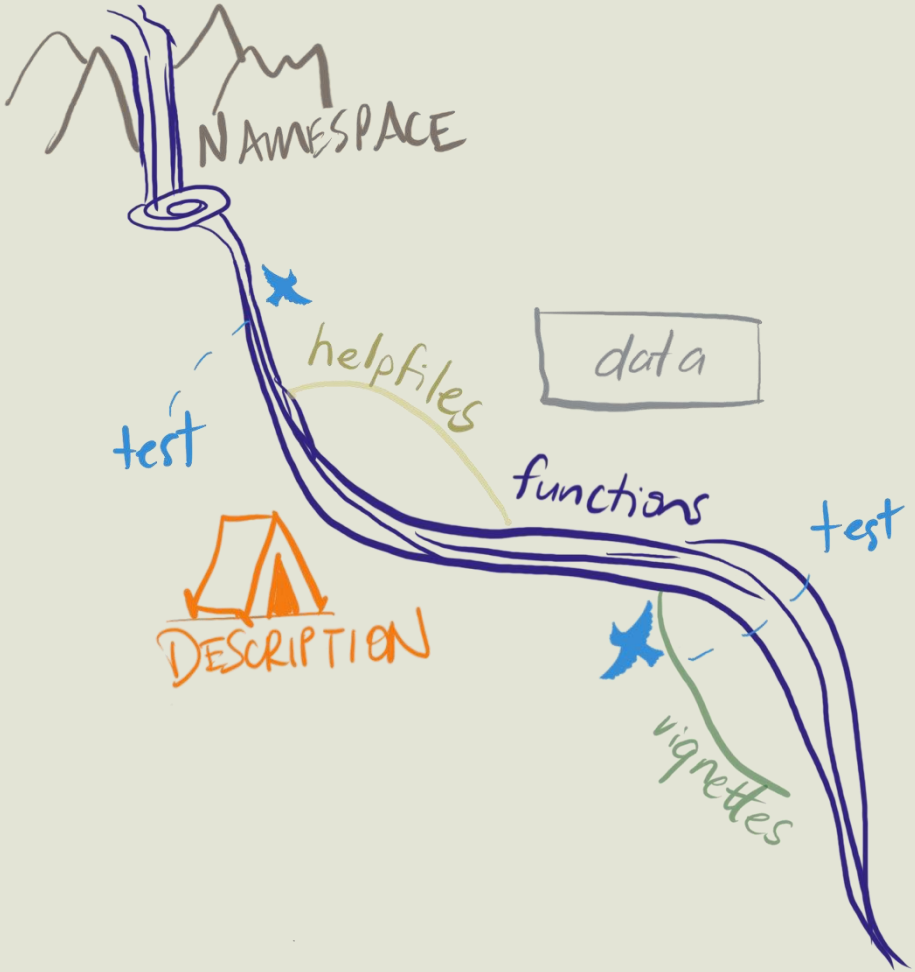
where



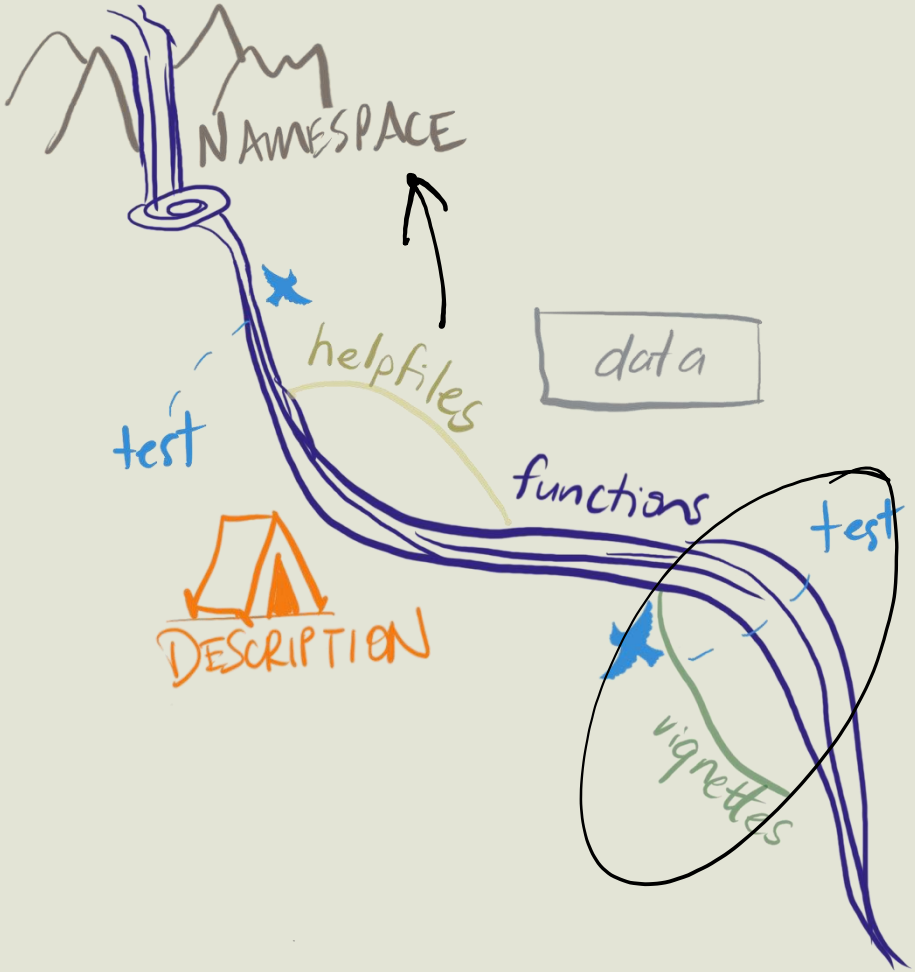
the ins and outs



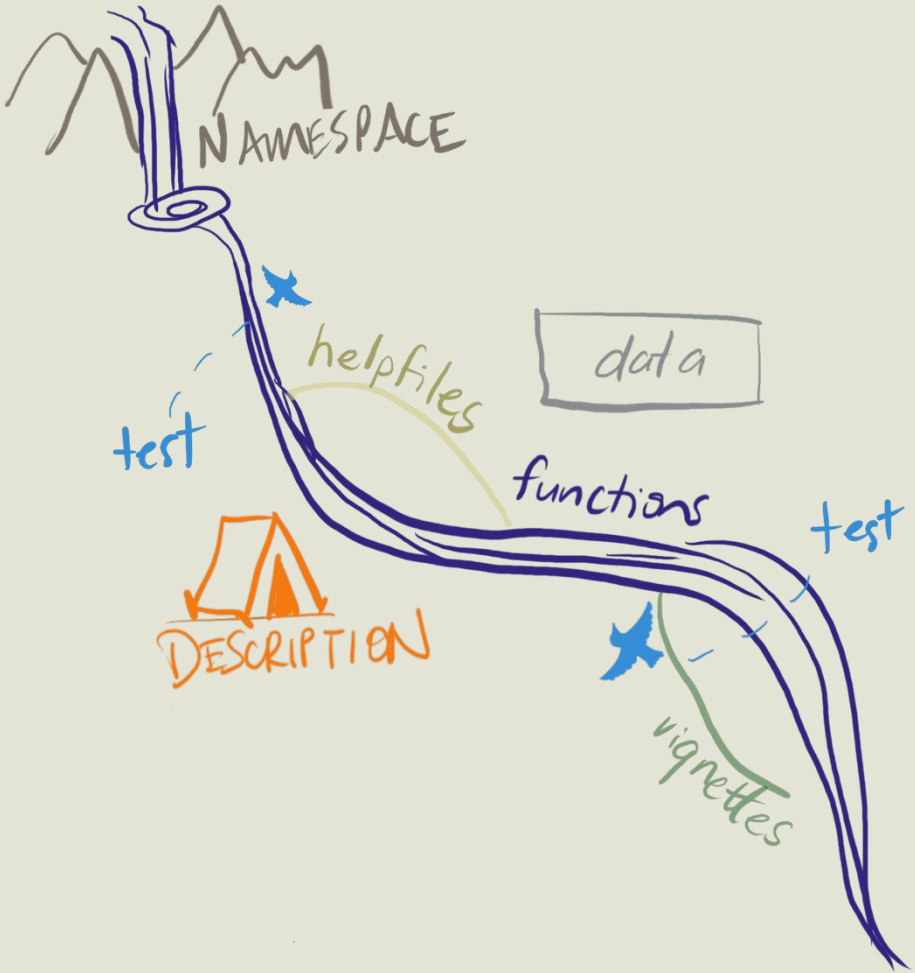
canary in the coal mine



breaks up complexity



breaks up complexity



usethis::
create_package()

usethis::
use_testthat()

what does this do?

how can I make this?

what is this error?


be curious

science poke!

(low-stakes investigating)

?dplyr

dplyr-package {dplyr} R Documentation

dplyr: A Grammar of Data Manipulation

Description

To learn more about dplyr, start with the vignettes: `browseVignettes(package = "dplyr")`

Author(s)

Maintainer: Hadley Wickham hadley@posit.co (ORCID)

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- Lionel Henry
- Kirill Müller (ORCID)
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Other contributors:

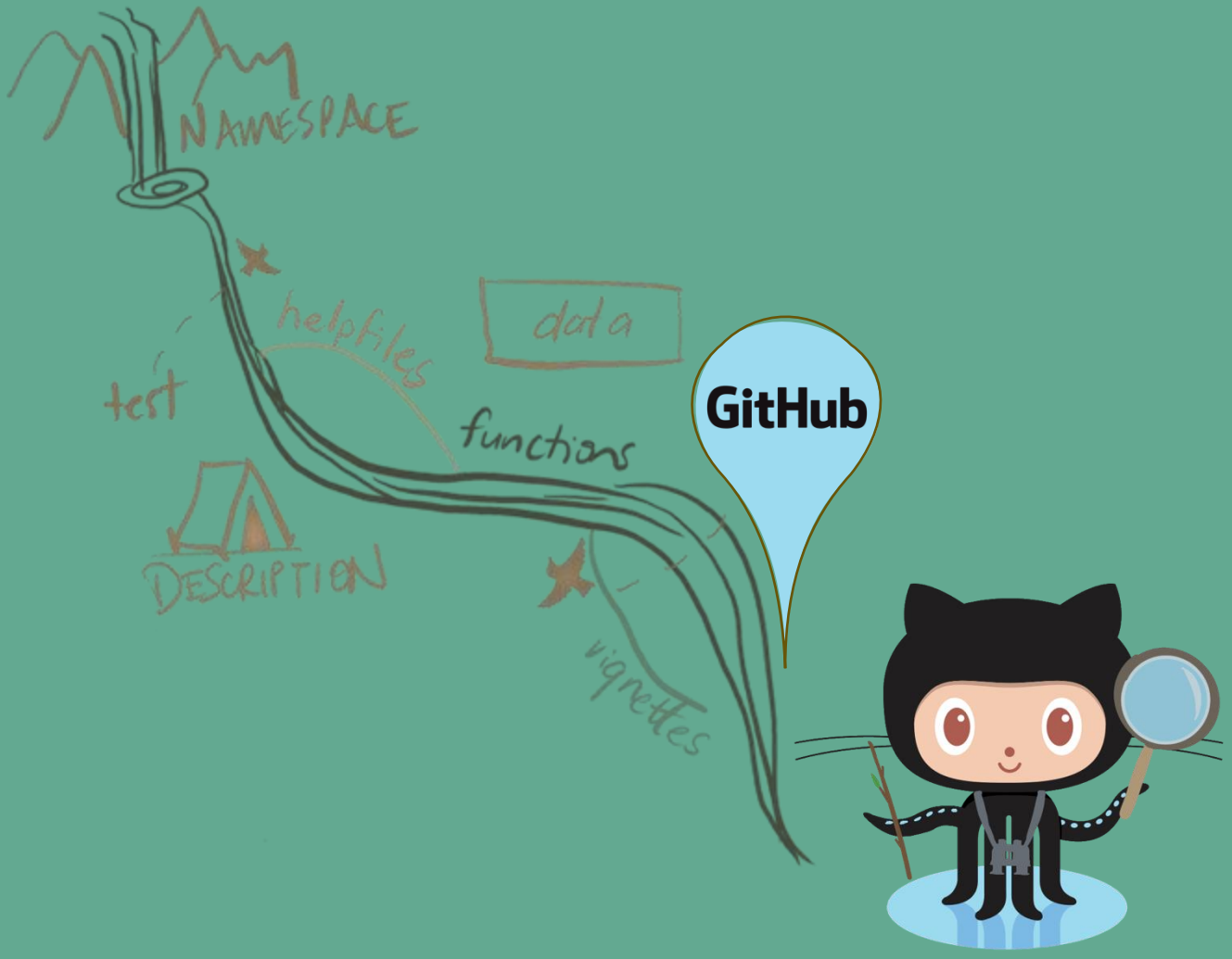
- Posit Software, PBC [copyright holder, funder]

See Also

```
usethis::use_
```

- use_readme_md {usethis}
- use_readme_rmd {usethis}
- use_vignette {usethis}
- use_article {usethis}
- use_package_doc {usethis}

?use_package_doc()


NAMESPACE
helpfiles
data
test
functions
DESCRIPTION
vignettes
GitHub

change stuff

```
devtools::document()
::load_all()
```

embrace the bugs*

*errors, issues, warnings, failures

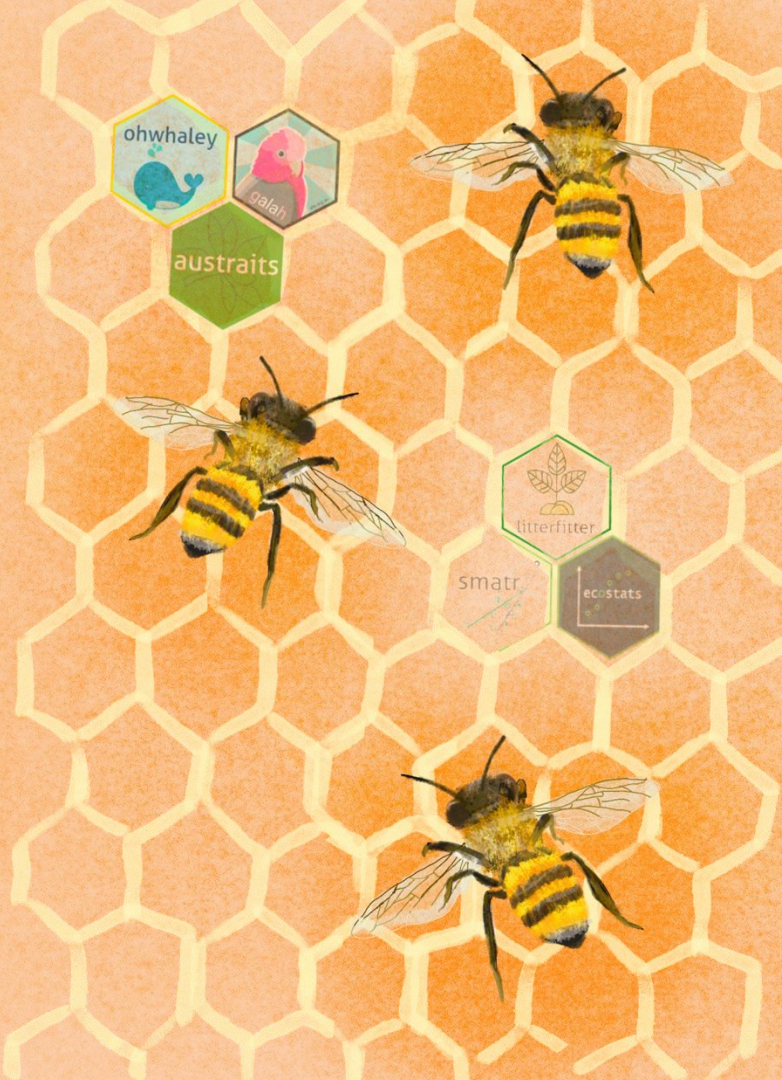
bugs* are enriching

*errors, issues, warnings, failures

bugs* improve and innovate

*errors, issues, warnings, failures


seek out bugs*
*errors, issues, warnings, failures


ohwhaley
galah
austraits
litterfitter
smatr
ecostats

learn more:

- R packages Hadley Wickham & Jenny Bryan
- Develop good R packages (for open science) Maëlle Salmon
- Write your own R package and publish it on CRAN Cosima Meyer & Dennis Hammerschmidt
- DIY R package Yours truly

thank you