Welcome to the package development masterclass!



Wifi: conf22 / together!

https://github.com/rstudio-conf-2022/pkg-dev-masterclass





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Introductions

Gabor, Jenny, Lionel, Romain, Shelby, Thomas

Introduce yourself to your neighbours. What package are you bringing with you today, and what does it do? What's the worst function in your package?

Goals

- 1. Learn latest techniques
- 2. Practice what you learn on *your* package
- 3. Get personal advice
- 4. Help us learn where the holes are

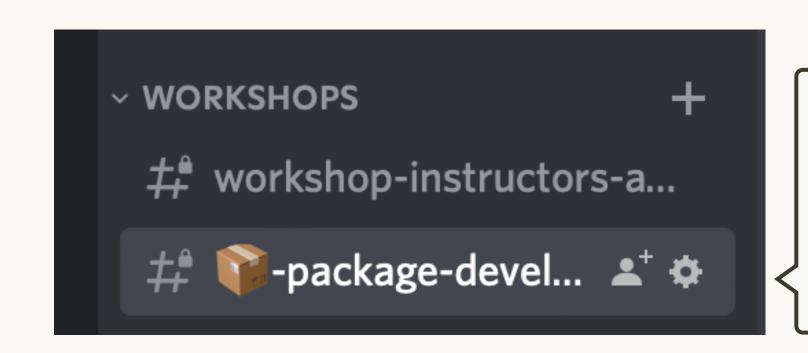
Basic structure

15 minutes talking + 60 minutes of work + 15 minute recap

Put up an pink post-it if you need help. Plenty of folks on hand to answer questions about package development.

I'll accumulate smaller questions in https://bit.ly/3aoPD70

Your also welcome to ask on discord



Ask Gabor to give you permission if you don't see this



ay 1	Day 2
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Introduction & checklists	Informative errors with rlang
Test tooling & design	Snapshot testing with testthat 3e
Writing great function docs	Function design
Making a website with pkgdown	Automated checking with GHA

Setup



```
install.packages("devtools")
usethis::use_devtools()
# All instructions will assume you have
# devtools and usethis attached so I won't
# show devtools:: or usethis::
```

You might also want to try pak



```
install.packages("pak")
pak::pak("devtools")
```

Key checklists



```
# Really for our use only, but I'll summarise
# the most important bits on the next slide
use_tidy_upkeep_issue(year)
```

```
# Also very handy
use_release_issue()
```

These create issues so you can add and delete
as appropriate

Today, work through this checklist

```
* [ ] `usethis::use_readme_rmd()`
* [ ] `usethis::use_tidy_description()`
* [ ] `usethis::use_tidy_style()`
* [ ] `usethis::use_package_doc()`
* [ ] https://testthat.r-lib.org/articles/third-edition.html
* [ ] Align the names of `R/` and `test/` files
      (see helper script in ?`usethis::use_r()`)
* [ ] https://lifecycle.r-lib.org/articles/communicate.html
```

You should be R CMD check'ing and committing to git after each step.