Welcome to the package development masterclass



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





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Introductions

Hadley, Jenny, Romain, Thomas, Lionel, Gabor, Shelby



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

Basic structure

15 minute talking +

60 minutes of work +

15 minute recap/questions

Put up an orange 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 (https://rstd.io/discord)



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.