D.I.Y R package

"Cause if you like it then
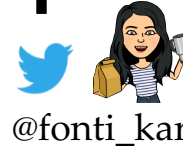you should I put it in a R package"

Fonti Kar

she/her

@fonti_kar

D.I.Y R package

Fonti Kar 🐦 👩
she/her @fonti_kar

Overview of the workshop👨‍💻:
https://github.com/fontikar/RLadiesCAL_Rpkg

Workshop materials (.zip) download here 📁:
https://bit.ly/2VuI7jS

OR git clone/fork the repo directly 🤖

We will be working from main_functions.Rmd

This file is nicely rendered here 🙂:
https://fontikar.github.io/RLadiesCAL_Rpkg/
so you can copy and paste during the workshop
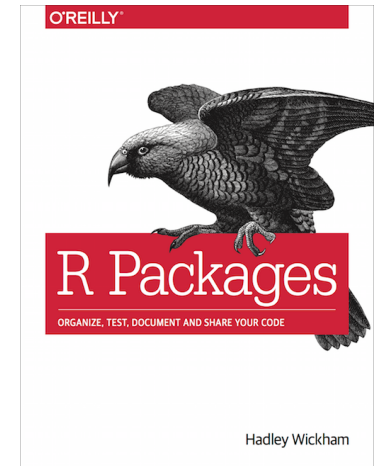
Please install:
• devtools
• testthat

"Cause if you like it then
you should I put it in a R package"

What is a R package?

"In R, the fundamental unit of shareable code is the package. A package bundles together **code, data, documentation, and tests**, and is easy to share with others."

Why an R package?

5 mins breakout discussion:

- Discuss **why** would one want to create an R package

- What are the **attributes of a good R package**?

- Any **previous experiences** with package building or alike?

- Any **ideas** for an R package you want to build?

Why an R package?

> **David Robinson**
> @drob
>
> "I wish I'd left this code across scattered .R files instead of combining it into a package" said no one ever #rstats

Why an R package?
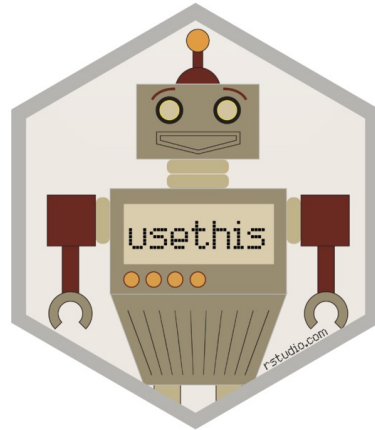

David Robinson
@drob

"I wish I'd left this code across scattered .R files instead of combining it into a package" said no one ever #rstats
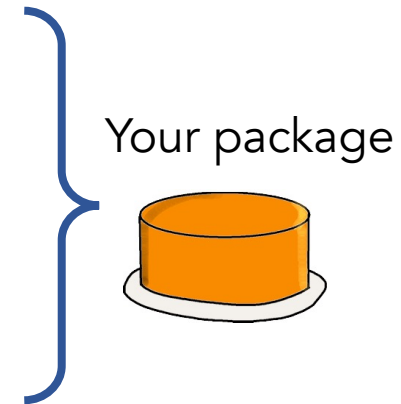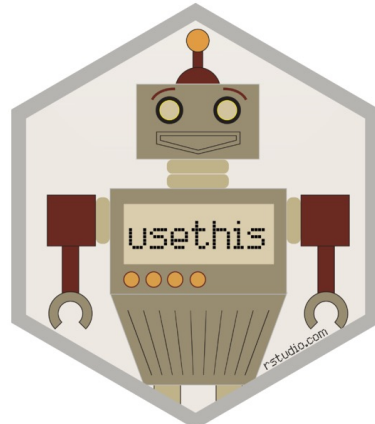
- Safeguard your future self

- Easy to share

- Tidy way to organise code + data as supplement

- Improves coding + function writing skills

- Opens door for contributing to other packages

Your mise en place

Documentation   Tests   Hex sticker   Website

Your mise en place
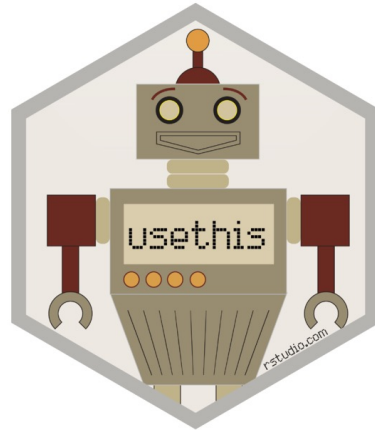

Your package

Documentation   Tests   Hex sticker   Website
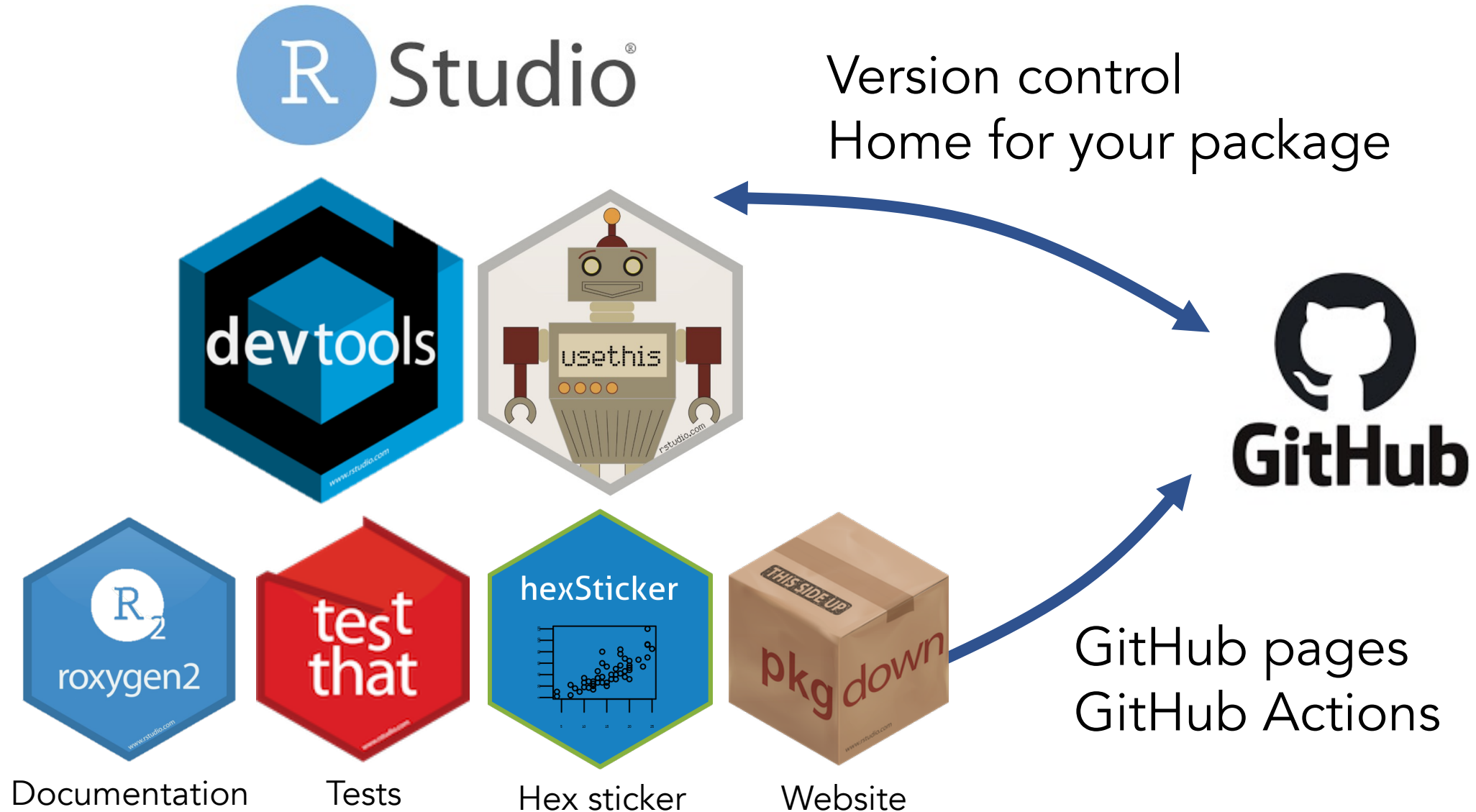
Your mise en place

Documentation   Tests   Hex sticker   Website   The extras

Your mise en place

Version control
Home for your package

GitHub pages
GitHub Actions

Documentation   Tests   Hex sticker   Website

What's on tonight's menu?

- Create the skeleton of a **R package**
- Add license
- Add a **function** to package
- **Document** the function
- Create README
- Create vignette
- Add a **test** for the function
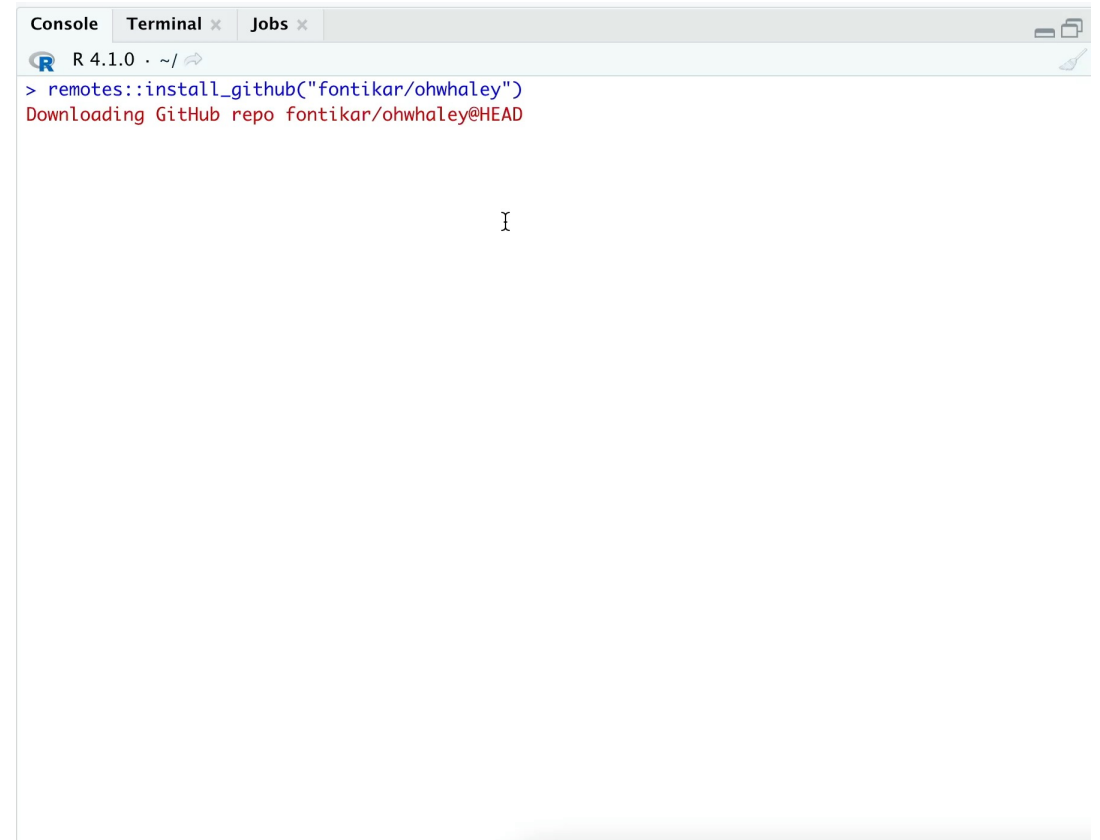

Documentation   Tests

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```
Console   Terminal x   Jobs x

R  R 4.1.0 · ~/
> remotes::install_github("fontikar/ohwhaley")
Downloading GitHub repo fontikar/ohwhaley@HEAD
```