#### A home for your functions:

## CREATING AN RPACKAGE

**CORINNE LEOPOLD** DATA SCIENTIST AT IBM





# 66 PACKAGES

ARE THE FUNDAMENTAL UNITS OF REPRODUCIBLE R CODE. THEY INCLUDE REUSABLE R FUNCTIONS, THE DOCUMENTATION THAT DESCRIBES HOW TO USE THEM, AND SAMPLE DATA.

99

Hadley Wickham, in R Packages

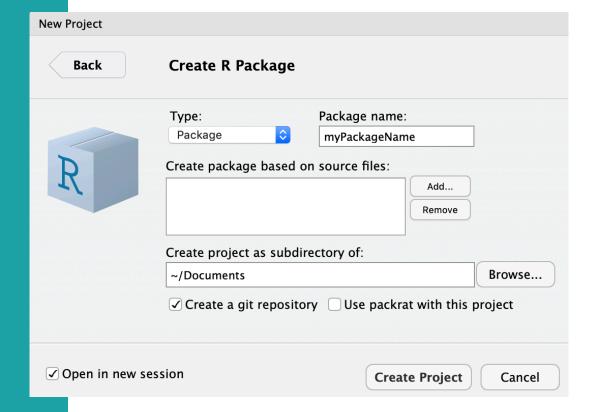
# YOUSHOULD CREATE A PACKAGE IF YOU...

- Want to easily reuse code
- Spend time copying and pasting functions across files
- Need to organize your code in a central place
- Collaborate w/ others on ongoing projects
- Want to standardize your code (e.g. consistent plot themes)

In RStudio, go to:

File → New Project

- → New Directory
- → R Package



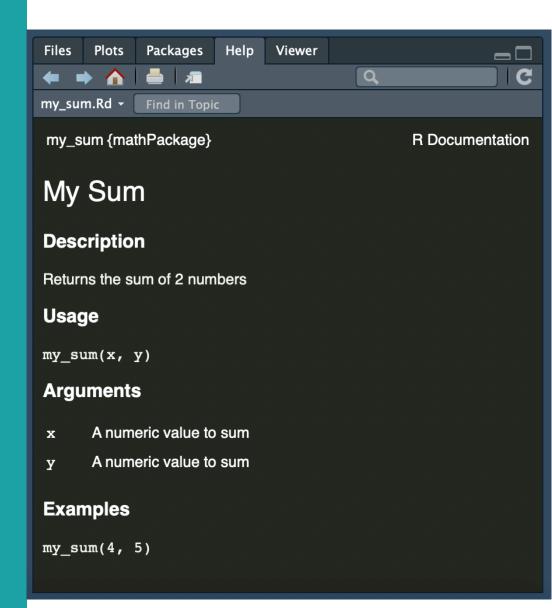
Add your functions to new R scripts

Add documentation via roxygen comments

```
^{f B} Untitled 1* 	imes
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     #' My Sum
    #' Returns the sum of 2 numbers
     #' @param x A numeric value to sum
  5 #' @param y A numeric value to sum
  6 #' @keywords add
        @export
     #' @examples
     #' my_sum(4, 5)
 10
 11 ▼ my_sum <- function(x, y) {
 12
       return(x + y)
 13 }
 14
```

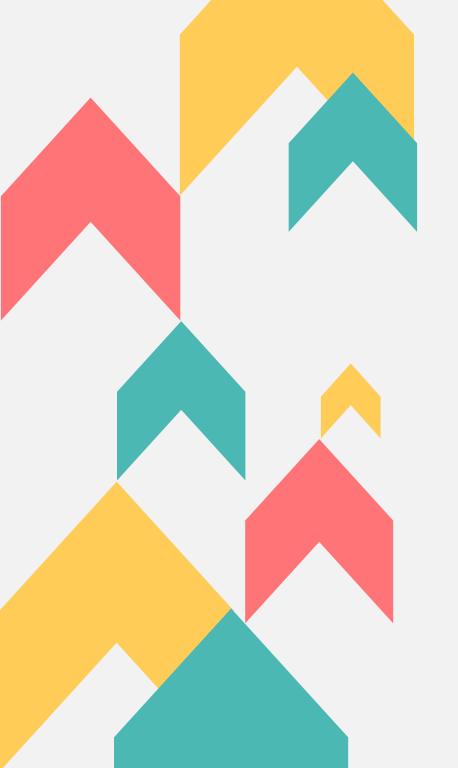
Generate .Rd files via devtools::document()

View your docs via ?<function>



Test via devtools::check(), then use your package!

```
> library(mathPackage)
> my_sum(10, 20)
[1] 30
>
```



### thank you!

#### CORINNE LEOPOLD

Corinnovation

