Reproducible examples

The reprex package

reprex

- reprex usage
- Reprex do's and don'ts
- This seems like a lot of work!
- Using datapasta with reprex

Creating data

Creating data from an R object

```
# Biochemical Oxygen Demand
datasets::BOD
#>   Time demand
#> 1    1    8.3
#> 2    2   10.3
#> 3    3   19.0
#> 4    4   16.0
#> 5    5   15.6
#> 6    7   19.8
```

dput()

```
dput(BOD)
#> structure(list(Time = c(1, 2, 3, 4, 5, 7), demand = c(8.3, 10.3,
#> 19, 16, 15.6, 19.8)), class = "data.frame", row.names = c(NA,
#> -6L), reference = "A1.4, p. 270")


bod <- structure(list(Time = c(1, 2, 3, 4, 5, 7), demand = c(8.3, 10.3,
19, 16, 15.6, 19.8)), class = "data.frame", row.names = c(NA,
-6L), reference = "A1.4, p. 270")


bod
#>   Time demand
#> 1    1    8.3
#> 2    2   10.3
#> 3    3   19.0
#> 4    4   16.0
#> 5    5   15.6
#> 6    7   19.8
```

datapasta::dpasta()

```
BOD %>%
  datapasta::dpasta()

#>  data.frame(
#>       Time = c(1, 2, 3, 4, 5, 7),
#>     demand = c(8.3, 10.3, 19, 16, 15.6, 19.8)
#> )
```

datapasta::tribble_paste()

```
BOD %>%
  datapasta::tribble_paste()

#> tibble::tribble(
#>    ~Time, ~demand,
#>        1,     8.3,
#>        2,    10.3,
#>        3,      19,
#>        4,      16,
#>        5,    15.6,
#>        7,    19.8
#>    )
```

Beyond reprex
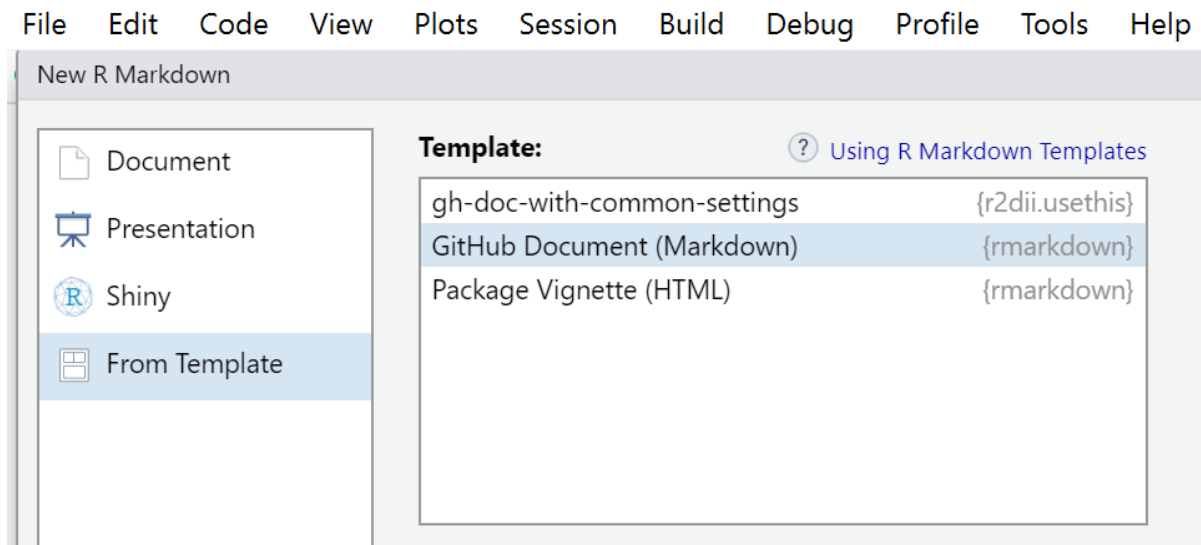
Why .Rmd?

- reprex can't read data from your system

```
reprex::reprex(
  readr::read_csv(here::here("your-file.csv"))
)
#> Error: 'your-file.csv' does not exist in current working directory
('C:/Users/Mauro/AppData/Local/Temp/RtmpCqzepI/reprex4e7022114c1f').
```

- reprex can.

```
data <- readr::read_csv(here::here("your-file.csv"))
head(data, 2)
#> # A tibble: 2 x 2
#>     Time demand
#>    <dbl>  <dbl>
#> 1      1    8.3
#> 2      2   10.3
```
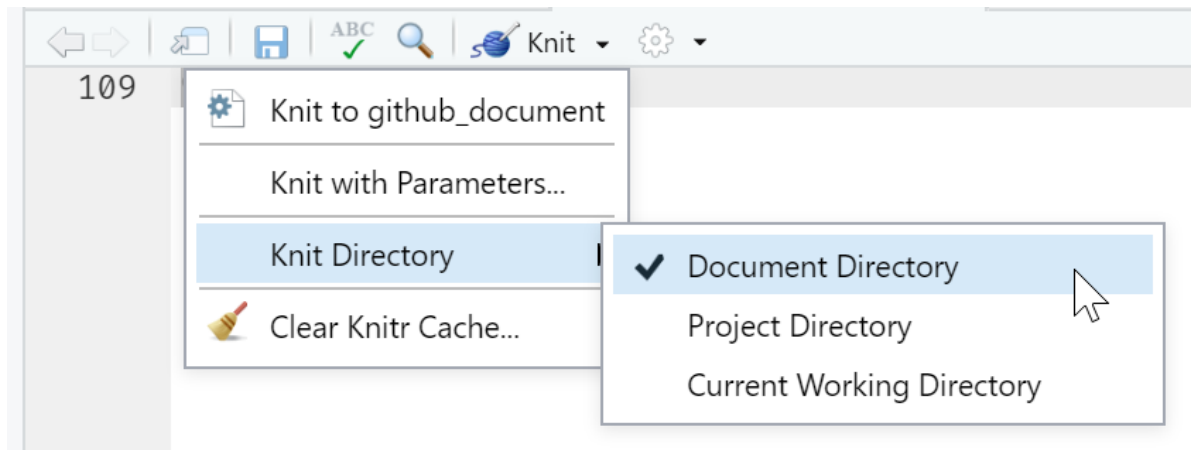
Create a GitHub document

_File > New File > R Markdown…

Why `here::here`?

.Rmd files have a weird notion of working directory

`here::here()` is what you normally expect.

```
here::here()
#> [1] "C:/Users/Mauro/git/ds-incubator"
```

Workflow

- Write your-file.Rmd, e.g.:

```
library(here)

data <- read.csv(here::here("your-file.csv"), stringsAsFactors = FALSE)
head(data, 2)
#>   Time demand
#> 1    1    8.3
#> 2    2   10.3

# More code ...
```

- Knit your-file.Rmd (press the *Knit* button).
- Commit and push; GitHub will render your-file.md beautifully.
- Share your-file.csv and the link to your-file.md.