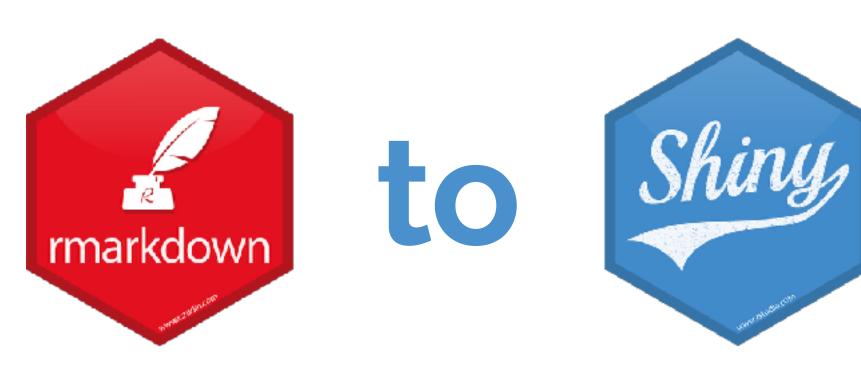
From reproducibility to interactivity:







Mine Çetinkaya-Rundel

@minebocek

mine-cetinkaya-rundel 😱





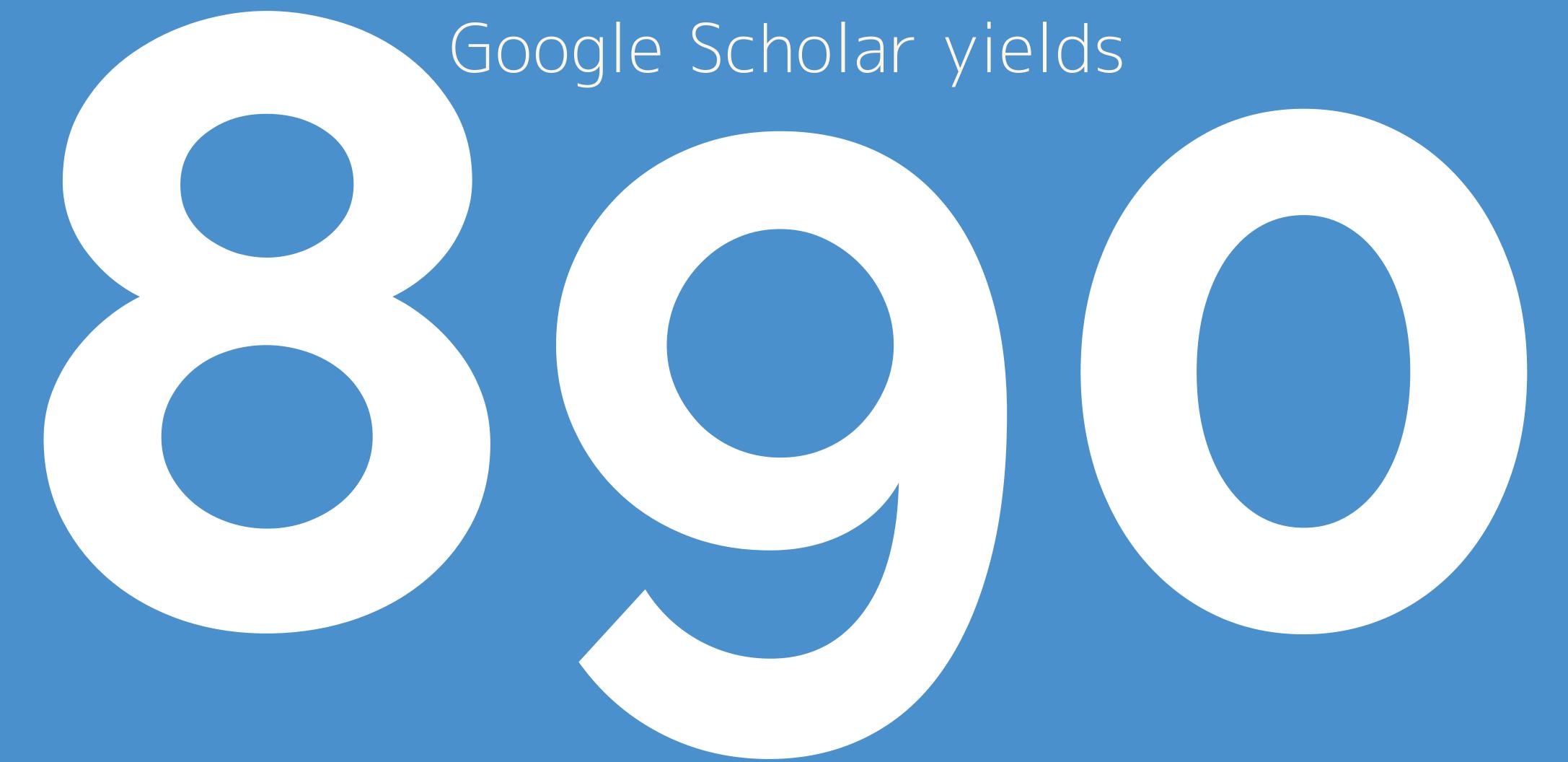




have tried and failed to reproduce another scientist's experiments



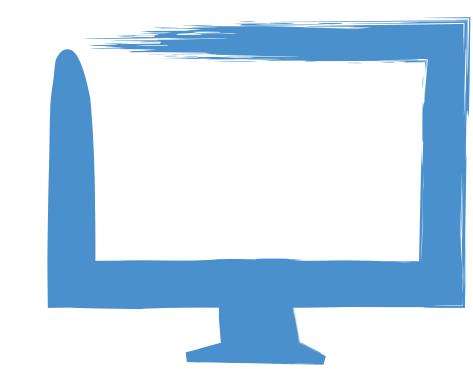
have tried and failed to reproduce their own experiments



results containing the term reproducibility crisis just in 2021

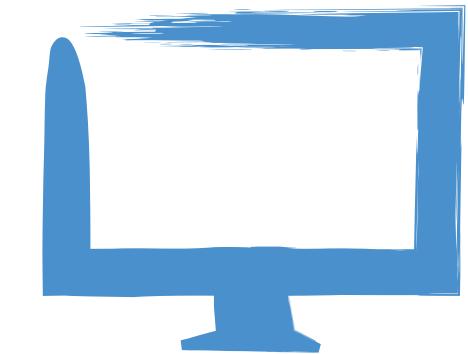
R Markdown

> 01-interactivity-in-r/01-rmd.Rmd



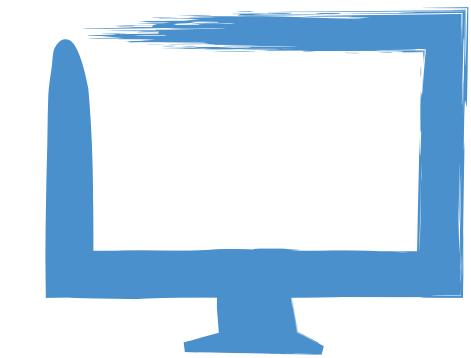
R Markdown + parameters

> 01-interactivity-in-r/02-rmd-with-parameters.Rmd



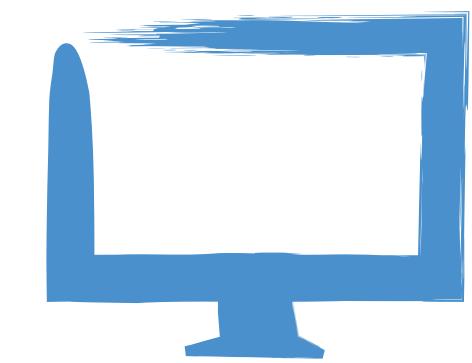
R Markdown + htmlwidgets

> 01-interactivity-in-r/03-rmd-with-htmlwidget.Rmd



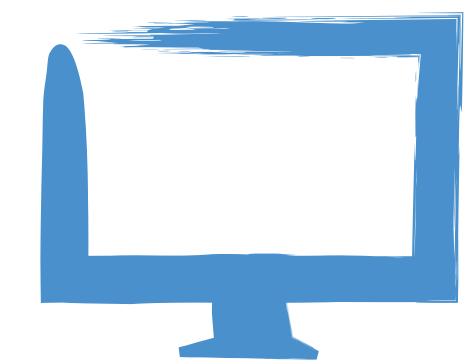
R Markdown + Shiny

> 01-interactivity-in-r/04-rmd-with-shiny.Rmd



Flexdashboard + Shiny

> 01-interactivity-in-r/05-rmd-dashboard-with-shiny.Rmd



Ladder of interactivity

More interactive .Rmd

.Rmd with parameters

.Rmd with htmlwidgets

.Rmd with Shiny components

Shiny app

More áontepláctátes .Rmd

.Rmd with parameters

.Rmd with htmlwidgets

.Rmd with Shiny components

Shiny app

.Rmd

.Rmd with parameters

.Rmd with htmlwidgets

.Rmd with Shiny components

Shiny app

Change the data more than once per session?

.Rmd

.Rmd with parameters

.Rmd with htmlwidgets

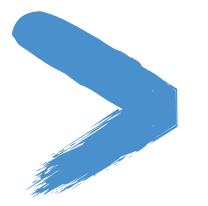
.Rmd with Shiny components

Shiny app

Need more than a document or dashboard?

Your turn

- Open 01-reproducible-to-interactive/06-shiny-to-param-rmd.R, run the app, observe its functionality.
- Now open **01-reproducible-to-interactive/07-shiny-to-param- rmd.Rmd** and fill in the blanks to convert the app to a parametrised R
 Markdown document.



Solution

Solution to the previous exercise

> 01-reproducible-to-interactive/08-shiny-to-param-rmd.Rmd

