Reproducible
Data Availability Visualization
with GitHub Pages

University of Basel: February 11th-12th 2021

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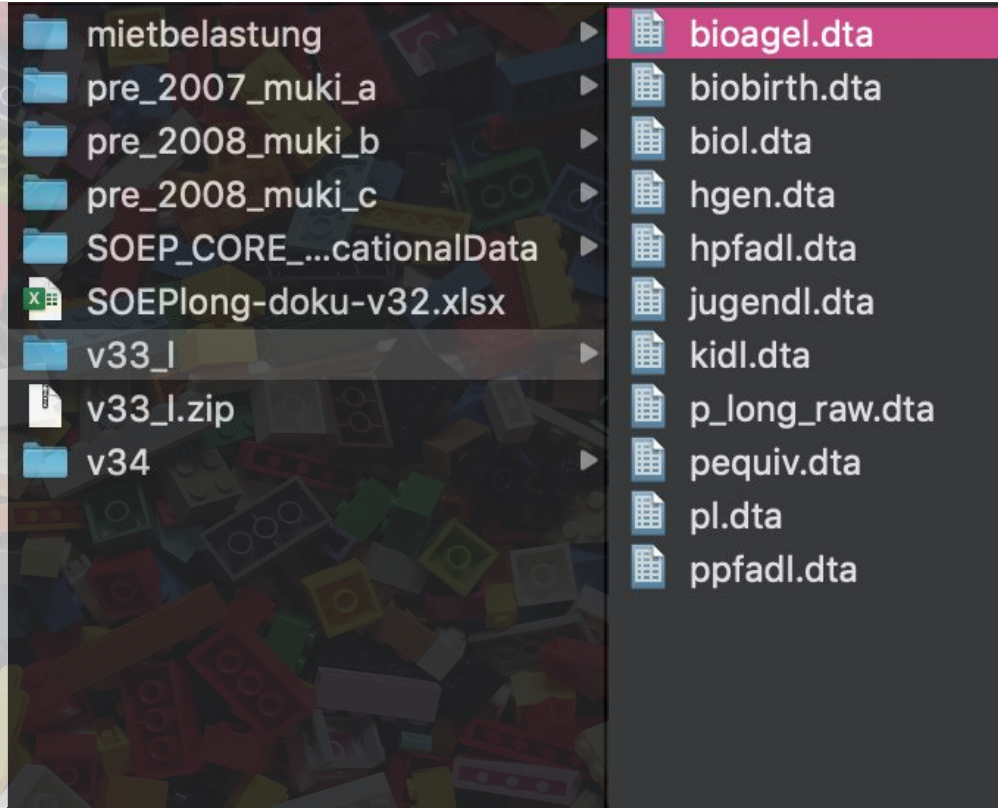
Heap of lego

Heap of datasets



Data Availability Challenge

- Get a fast overview of data availability (data-viz)
- Share it with many people
- Allow them to reproduce it for their own needs

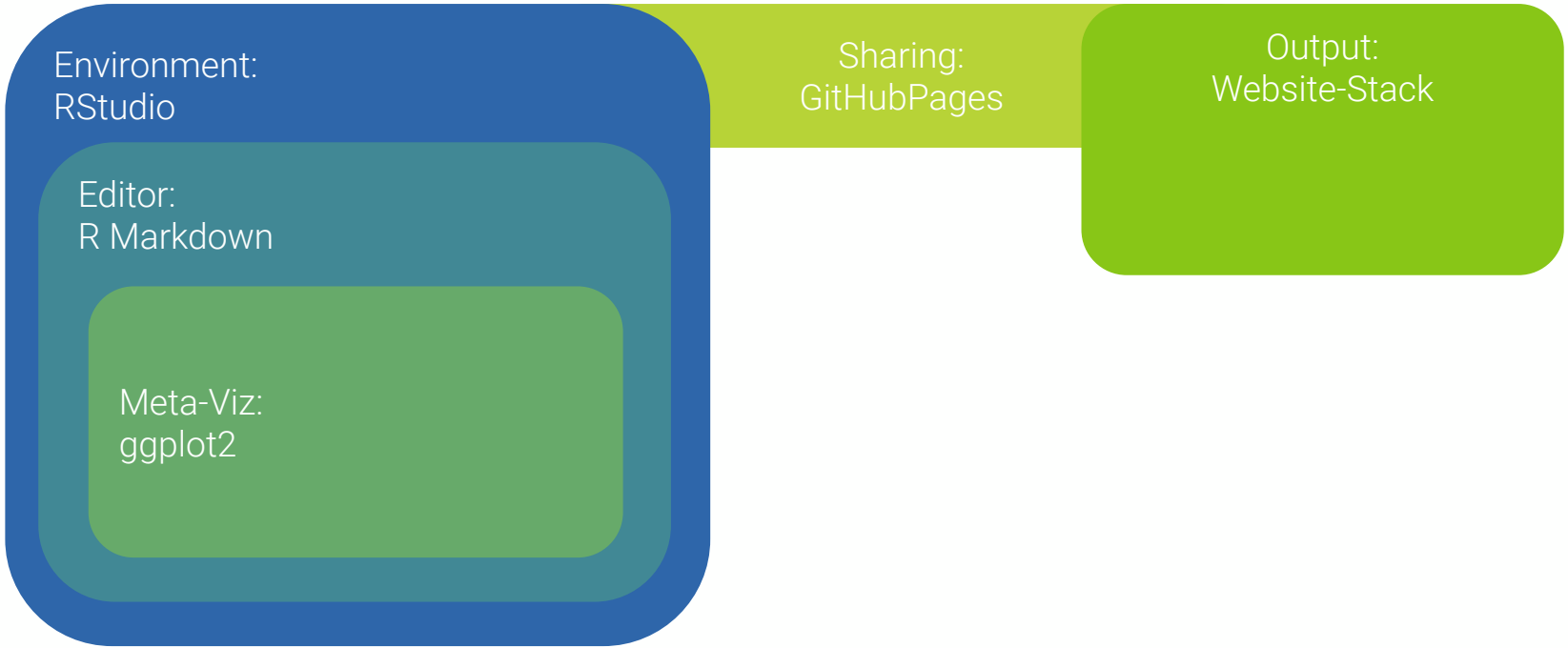
Solution?

R-Workshop

Our Mission

🏆 Build a reproducible research report like this

Reproducible Research Reports



Reproducible Research Reports

Workshop Overview

1. RStudio

Our computational environment

Reproducible Research Reports

1. RStudio
2. R Markdown

Controls
Text + Code + Output

Reproducible Research Reports

Visualizing
Data Availability

Reproducible Research Reports

Creating websites
with R Markdown

Reproducible Research Reports

Sharing websites
with many people

Schedule

Thursday	Friday (half-day)
09:00 - 10:30 Welcome & RStudio Intro	09:00 - 10:30 Git + GitHubPages
10:30 - 11:00 Break	10:30 - 11:00 Break
11:00 - 12:30 R Markdown Intro	11:00 - 12:30 Putting all the pieces together
12:30 - 13:30 Lunch	12:30 - 13:00 Wrap-up
13:30 - 15:00 Meta-Viz and ggplot2	
15:00 - 15:30 Break	
15:30 - 17:00 R Markdown: website features	

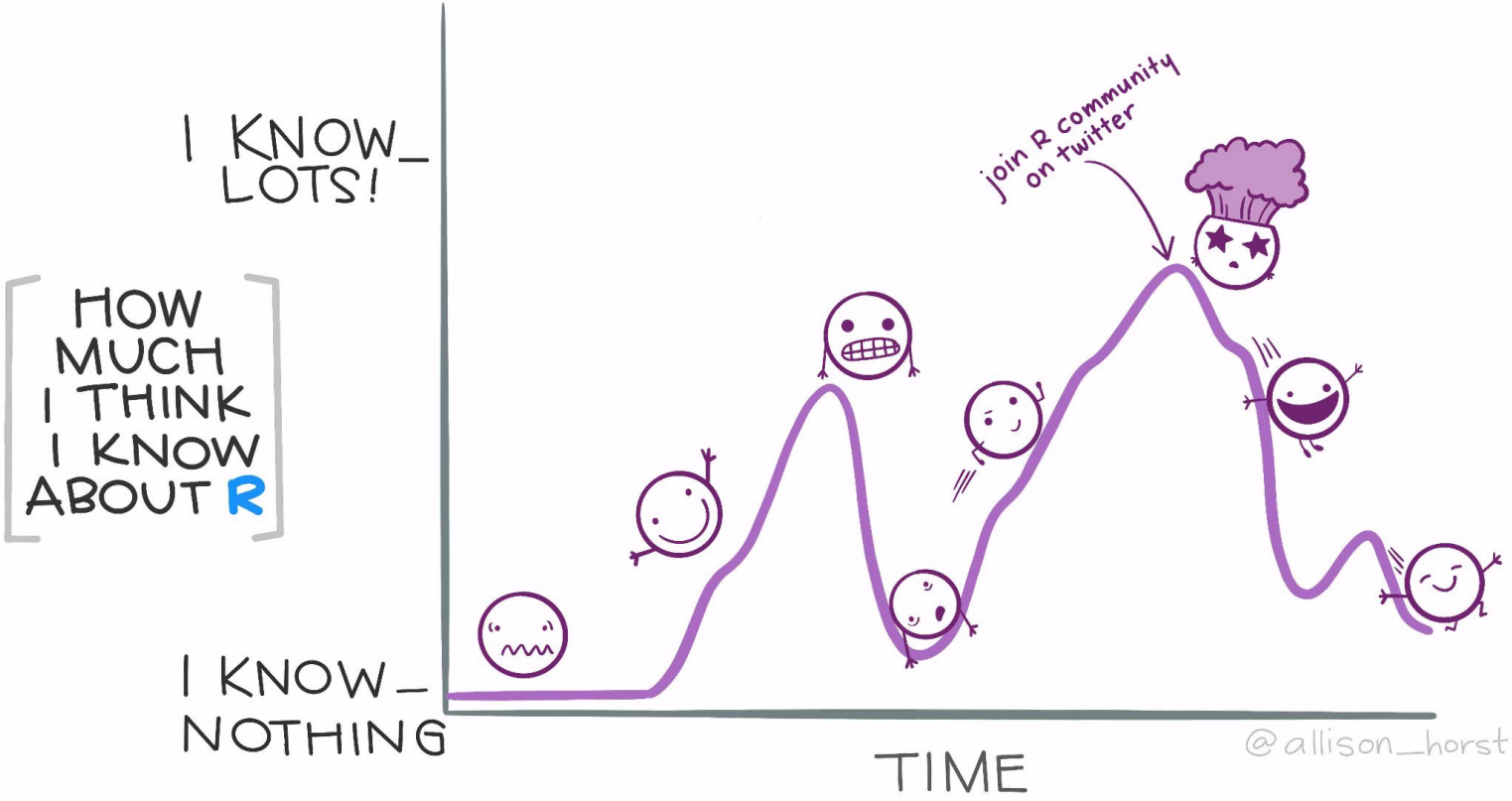
Workshop features

- Communication & Questions → Gather.town and GitHub

NOT SURE IF I'M A GOOD PROGRAMMER
OR JUST GOOD AT GOOGLING
VIA 9GAG.COM
MEMEFUL.COM

Workshop features

- Communication & Questions → Gather.town and GitHub
- Coding → RStudio Cloud
- Kids are welcome 😍
- Having trouble? It’s not you, this is complicated stuff


I KNOW_ LOTS!
HOW MUCH I THINK I KNOW ABOUT R
I KNOW_ NOTHING
join R community on Twitter
TIME
@allison_horst

Workshop features

- Communication & Questions → Gather.town and GitHub
- Coding → RStudio Cloud
- Kids are welcome 😍
- Leave the room anytime
- Having trouble? It’s not you, this is complicated stuff

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- Be excellent to each other

Workshop features

- Communication & Questions → Gather.town and GitHub
- Coding → RStudio Cloud
- Kids are welcome 😍
- Leave the room anytime
- Having trouble? It’s not you, this is complicated stuff
- Be excellent to each other
- Stay healthy → breaks, drinks and food/snacks

Virtual Environments

Gather.Town

- Group spaces
- Workshop space
- Games 😏
- Press x to interact with things
- Press ? for ghost mode

R-Studio Cloud

Gather.Town

05:00

Your Turn: Explore

- Find a group at the group section
- Try out how far you can stand apart until video goes off (outside group areas)
- Share your screen to someone
- Interact with the elements at the reception

About me

- R enthusiast (R-Ladies Berlin, Correlaid)
- Social Scientist (MA Humboldt University of Berlin)
- from PhD student at MPIB studying risk preferences
- to data scientist at Citizens for Europe working with equality data

Welcome

About you

- One thing you want to learn
- Which of your favourite foods did you bring today?
- What was the last thing you remember looking up online when you got stuck in R?
- What is the thing you have to looked up at least three times?

1

RStudio

Goal

🎨 Get familiar with the environment

💭 RStudio and RStudio Cloud

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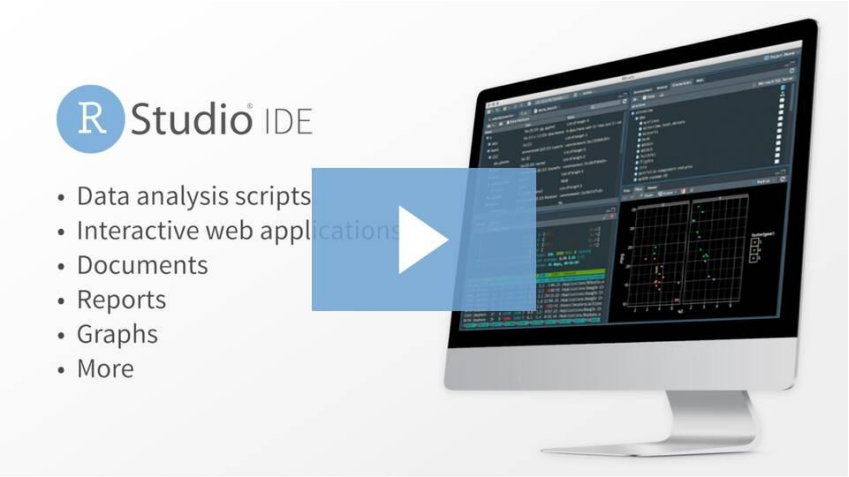
R-Studio Cloud



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R-Studio Cloud

- Already set-up RStudio environment
- Here

R-Studio Cloud

05:00

Explore

- Copy the R-Workshop project into your own space
- Open the welcome.R Script in the 01_RStudio folder
- Find a hidden message in one of the project folders

Lunch Time

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