

# Reproducible Documents with `{ rmarkdown }`

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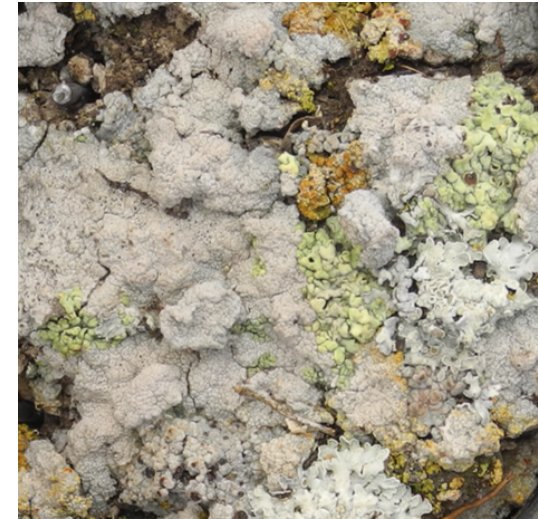
Freie Universität Berlin - Theoretical Ecology



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# Who am I?

- Scientific modeller with ecology background
- Working in the **theoretical ecology group** at Freie Universität
- PhD student at Freie Universität Berlin
  - Topic: Modelling the impact of biological soil crusts on dryland hydrology



## Teaching

- Statistics with R for Biology Master students
- Workshops on R packages, R development, ...



# The Workshop: Topics



- Day 1: Introduction to the {rmarkdown} package
  - What is it?
  - What can you do with it?
  - Basic functionality
  - Day 2: More advanced features and other document types
  - Citations
  - HTML output
  - Word output
  - Format tables
  - Additional things if time
  - Day 3: Bring your own data

# The Workshop: Schedule and Organization

 1 p.m. - 5 p.m. ( ~ 12 a.m. - 1 p.m.)

 We will meet in the `General` meeting on Webex

## Organization

- Input sessions
  - Presentation and demonstration of a topic
  - Some examples
- **Tasks** regarding this topic
  - Solve them in small groups
- **Joint discussion** of tasks and additional questions

# The Workshop: Material

- All material can be found on the [workshop's website](#)
  - Presentations
  - Tasks
  - Solutions
  - Additional resources
- The complete material can be downloaded from the website after the workshop

# Bring your own data

## Learning by doing

- Work on your own research data
  - I will also provide some real life data sets from different topics
- Create your own documents
  - Use methods learned in the course
  - Try something new
  - Create the document that you actually need or want to learn
- Think about it and let me know tomorrow afternoon if you want to participate
- If you want to try something specific: Let me know and I can check for resources etc. before

# Before we get started I

Any feedback and questions are very welcome.

I am curious to know

- What you liked/disliked
- Which topics or methods you missed
- Which tasks were too easy/too difficult or just right
- ...

# Before we get started II

Did anyone have problems installing the package or R and R Studio?