

# Course expectations

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INTRODUCTION TO R AND RSTUDIO

# Topics



**This course is an introduction to R – don't worry if you don't understand everything immediately**

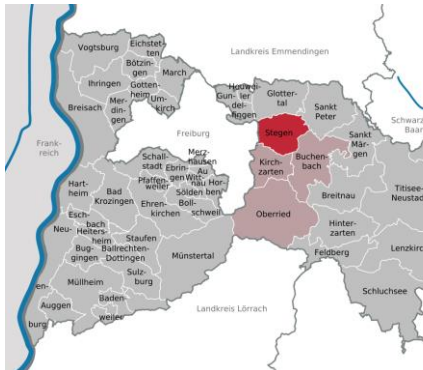
- R programming language
- Rstudio
- Basic epidemiological analysis/outbreak investigation
- Summary statistics
- Plotting
- Mapping
- Rmarkdown basics
- Good practices for data science in R

# Course components

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## STEGEN CASE STUDY

The course is built around a single case study analysed in different ways to showcase R – we will introduce this tomorrow



## LECTURES

Lectures are scattered throughout the course. These are used both to build on concepts in the case study and to introduce other R functionality you may be able to use in the future



# Course components

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## ADDITIONAL INFORMATION

Slides and additional resources for each topic are available on the course webpage

**RECON**

Course page for RECON MSF  
introduction to R course April 2021

[View the Project on GitHub](#)  
jorgensenD/coursepage

- [Course timetable](#)
- [Zoom link](#)
- [Install instructions](#)
- [RECON learn](#)
- [R epidemics consortium](#)
- [R cheat sheets](#)
- [code of conduct](#)

### Trainer contact details

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### Resources

Slides, links and associated files for each day of the course

#### Day 1

► [Expand](#)



This project is maintained by [jorgensenD](#)

## INTERACTIVITY

We would like the course to be interactive – feel free to ask questions at any time during lectures or practicals



# Schedule

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## Day 1

- Why use R?
- Introduction to R
- Hands on with R in RStudio

## Day 2

- Starting the case study
- Initial data import and summarising
- Good practices - reproducibility / Rmarkdown

## Day 3

- Graphical exploration
- Descriptive analysis
- Plotting with ggplot2

## Day 4

- Rmarkdown – R4epis
- Spatial analysis
- Trainer example R projects

# Course webpage

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[jorgensend.github.io/coursepage](https://jorgensend.github.io/coursepage)

# Zoom etiquette

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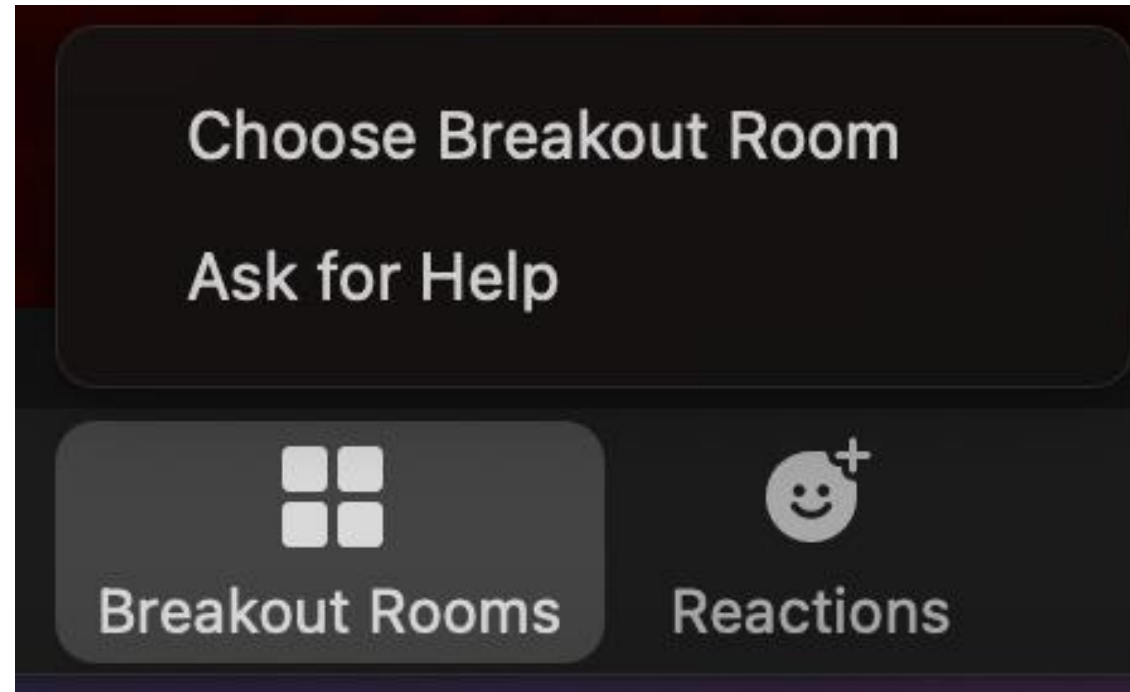
- **Mute** during lectures please unless asking a question
- **Lectures in main room all together**

Feel free to butt in with questions, use chat, or raise hand
- **Breakout rooms for practicals**

We encourage you to discuss amongst yourselves in your breakout groups
- We will mix breakout rooms each time so you get a chance to discuss with others
- Trainers will drop in regularly but if you have a question **ask for help**
- Feel free to **private message** trainers if you have any issues

# Help on zoom

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Or come back to the main room to find a trainer



# Feedback

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**These courses evolve over time in response to feedback from participants.**

If you have any comments or suggestions as we go along, please contact any of the trainers or the course organiser. There is a list of e-mail addresses on the course page.

A feedback form is also linked there – any submissions will help to shape future courses to the needs of users.



# Software

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Please draw the attention of a trainer in the break if you don't have the software or packages installed



# **Don't stress!**

You may not understand everything  
immediately

We are aiming to give you the basics and  
confidence to try using R in the future