Course expectations

INTRODUCTION TO R AND RSTUDIO

Topics

This course is an introduction to R – don't worry if you don't understand everything immediately
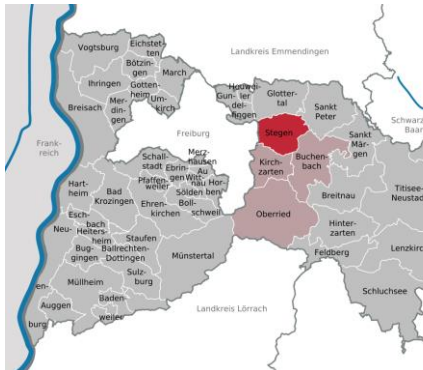
- R programming language
- Rstudio
- Basic epidemiological analysis/outbreak investigation
- Summary statistics
- Plotting
- Mapping
- Rmarkdown basics
- Good practices for data science in R

Course components

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 t build on concepts in the case study and to introduce other R functionality you may be able to use in the future

Course components

ADDITIONAL INFORMATION

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

INTERACTIVITY

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

Schedule

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

jorgensend.github.io/coursepage
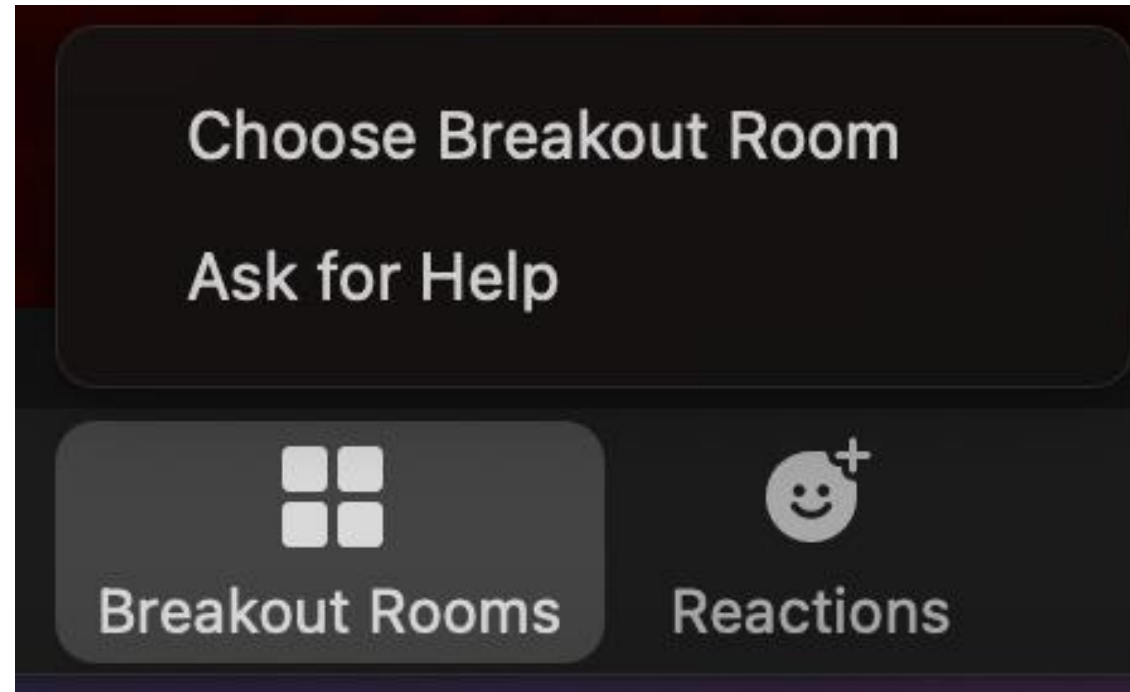
Zoom etiquette

- **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

Or come back to the main room to find a trainer

Feedback

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

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