

Scientific Visualization with the ggplot Package in R

Objective

Participants will be introduced to the general principles of scientific visualization, and learn visualization techniques using the ggplot package.

Description

The online course consists of the following major modules:

Principles of scientific visualization:

- Data types
- Visuals
- Short introduction to human visual physiology and psychology

Introduction to ggplot:

- The “grammar of graphics” approach
- Data-visual mappings

Scientific plots:

- Scatterplots
- Bar charts
- Histograms
- Densities
- Visualizing multivariate datasets with faceting

Methodology

Instructor-led lecture with numerous hands-on exercises using the Jupyter programming environment (provided by the instructor)

Conditions

Basic familiarity with the R programming language is required.

Trainer



Dr. András Aszódi
VBCF BioComp, Vienna

- Holds a PhD in chemistry
- Has extensive computational biology experience, both in academia and industry
- Teaches short courses on biostatistics and scientific programming

Organizational Information

Language / Format	English / Online
Target group	Doctoral Candidates at all stages and Postdocs (R2/R3) from all faculties
Date	Tuesday, 9 February 2027, 9:00 – 13:00
Registration	For registration click here