

Data visualization for scientists

An introduction to Data Viz for Ph.D students

Instructor: Catia Prandi, PhD (email: catia.prandi2@unibo.it)

Period: First two weeks of November 2022

Duration: 10 hours

Location: The course will be held online via Microsoft Teams (the link will be provided to the enrolled students).

Overview

The course will provide PhD students with an overview on data visualization techniques, strategies and tools, to create meaningful visualizations and make sense of data.

Topics

- Introduction to Information visualization and data visualization concepts and definitions
- Introduction to Data Visualization principles (e.g., color theory)
- Introduction to Exploratory data analysis and fundamental graphs
- Introduction to different tools and software for data visualization

Assessment modalities

At the end of the course, the PhD student should choose a data set and create different visualizations exploiting tools introduced during the course, and produce a short report, describing the different choices. As a suggestion, the student can apply the data visualization principles to data set related to his/her research. More details will be provided during the course.

Teaching Material and resources

The instructor will provide slides and a list of resources and additional material. All the course material is in English.

Enrolment

<https://forms.office.com/r/x57RE83fEd> (deadline October 28 – after that date, please, send an email to catia.prandi2@unibo.it)

Calendar

- Nov 3 (10:30-13);
- Nov 4 (14:30-17:00);
- Nov 10 (10:30-13);
- Nov 11 (14:30-17:00).