

# Data visualization for scientists

An introduction to Data Viz for Ph.D students

**Instructor:** Catia Prandi, PhD (email: [catia.prandi2@unibo.it](mailto:catia.prandi2@unibo.it))

**Period:** October 2020

**Duration:** 10 hours

**Location:** Online, using Teams (the link will be provided to the enrolled students)

## Overview

This 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

Please contact me for enrolling in this course ([catia.prandi2@unibo.it](mailto:catia.prandi2@unibo.it)).

## Calendar

- Monday, October 5, 9:30 – 12:00
- Tuesday, October 6, 9:30 – 12:00
- Wednesday, October 7, 9:30 – 12:00
- Thursday, October 8, 9:30 – 12:00