



Introduction to Visualization with D3 (3 ECTS)

ECO-15670

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Description

This short course provides a basic introduction to D3 – Data Driven Documents, a JavaScript library for advanced data visualization. D3 is a flexible, modern framework for online visualizations that allows you to bind arbitrary data to a Document Object Model and apply data-driven transformations to that document. The course introduces the basics of D3 and how it can be integrated into a website and then shows how it can be used for simple illustrations, network visualizations, interactive graphics and geographic data. The topics are introduced through brief introductory sessions followed by hands-on tutorials. Solid programming skills are a prerequisite, prior knowledge in JavaScript is recommended.

Requirements and Grading

Students will have to fulfill the following requirements:

- Participate in each session of the course.
- Complete all assignments.
- Submit a final programming assignment.

Grades for the course are based on performance in the assignments completed throughout the term.

Course Schedule

Session 1:

Quick overview/recap of JavaScript

Session 2:

Basics of D3 and integration into a website

Session 3:

D3 for bar plots and simple graphs

Session 4:

D3 for network visualizations

Session 5:

D3 for interactive graphics

Session 6:

D3 for geographic data