

# Interactive Data Visualization

Course instructor: Ate Poorthuis

## **Learning Objectives**

- Identify and explain the different technologies that make online maps and data visualization possible
- Evaluate and use modern web standards in order to build online maps and visualizations
- Compare and apply advanced visualization techniques based on their appropriateness for specific data types and research questions
- Design, assess and build an online, interactive visualization that allows the user to gain insight from raw data

## Measurable Outcomes

- Accurate summary and assessment of foundational technologies, concepts and techniques used in online visualizations through weekly lab assignments
- Appropriate and proficient use of modern web standards as well as reading, writing and debugging a programming language for online data visualization in the form of weekly lab assignments
- Development and delivery of a written project proposal that describes an online data visualization project that uses modern web standards and advanced visualization techniques
- Communicate orally and visually the iterative progress in a data visualization project through prototypes and presentations
- Development and delivery of a written report that describes the both the design process and the final product of a data visualization project