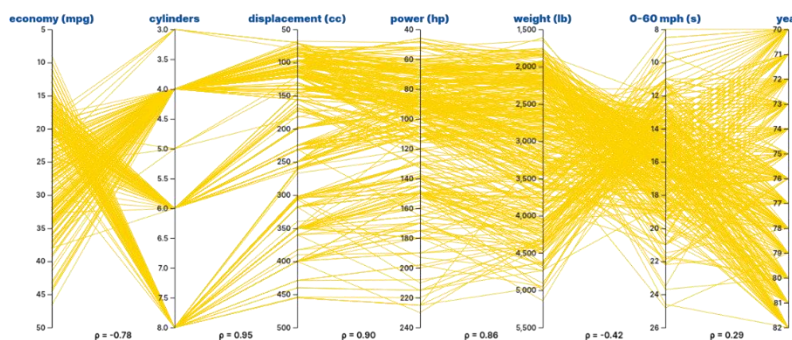Practical Course / Fachpraktikum
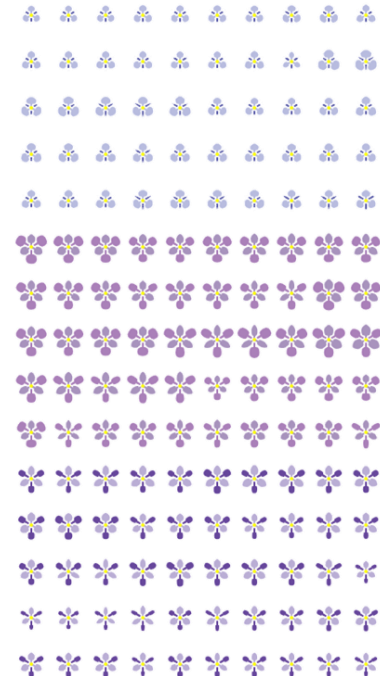
Information Visualization

Goals

In this practical course, students will learn about technologies for developing interactive information visualizations and practical aspects for programming them. The course will cover topics such as data wrangling (cleaning data, finding and mending gaps in the data), idea creation using sketching, transforming and filtering the data to visualize, mapping to appropriate visual structures, and creating interactive information visualizations. Students will apply these steps during several small exercises, creating interactive information visualizations. Last, students will use their learned knowledge by developing an independent interactive information visualization of a dataset chosen independently.

Content

- Developing interactive information visualizations with JavaScript, D3.js, and svelte.js
- Data wrangling with Python, Pandas, and Jupyter Notebook
- Providing data with SQLite and Flask
- Implementing small exercises with open datasets
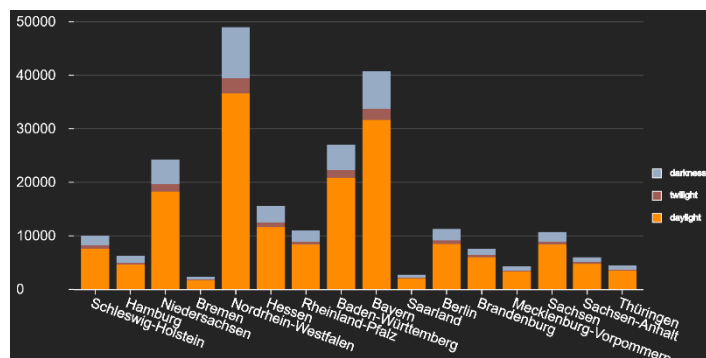- Implementing an independent programming project

Prerequisites

- JavaScript Programming Skills
- Lecture: Information Visualization and Visual Analytics

Time and Date

Mondays, 14:00-17:15

Room: 0.452 (Universitätsstraße 38)

Start: April 07, 2025

Contact

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