University of Konstanz
Department of Computer and Information Science
Chair for Data Analysis and Visualization
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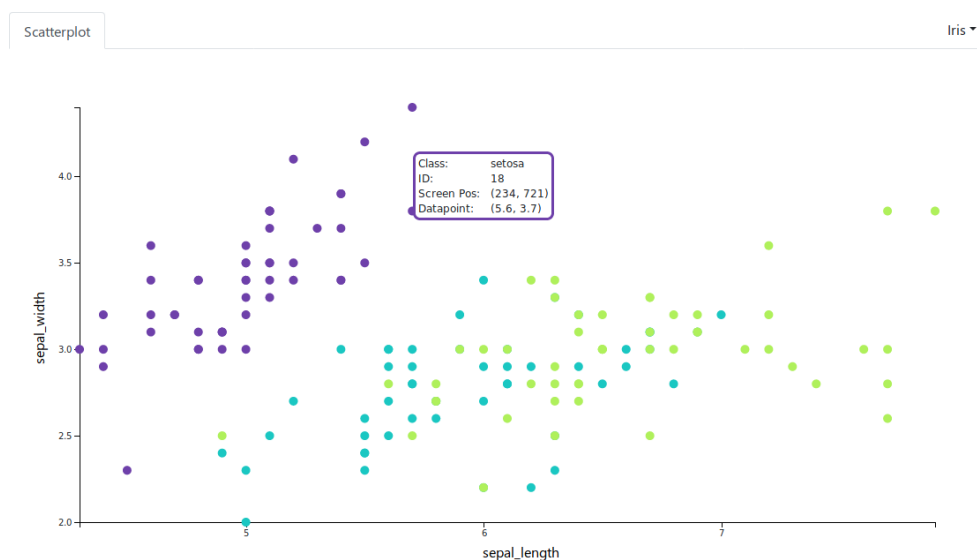**Due: Monday, 16.11.2020, 10:00**

Note:
For this and the upcoming exercises, you can build up on the [framework we provide in Ilias](#).
It includes a basic project structure as well as a working WebPack configuration. **Using the framework is optional.** You are still allowed to program in plain HTML / JavaScript code. If you want to switch to the WebPack framework, please include your data loader from the previous assignment. **The framework includes a markdown file (README.md) explaining its basic usage. Please read it carefully before starting.**

Task 1:
We want to start visualizing the data. Therefore, please solve the following three tasks:
1. Add a dropdown menu to select one of the datasets.
2. Implement a scatterplot to visualize the **first two dimensions** of the selected dataset.
3. Enrich the scatterplot with meaningful features.
    a. **Color** the **data points** according to their class/cluster membership.
    b. While hovering a data point, show a tooltip with the
        i.   exact **x/y** values (data and screen space)
        ii. the **class name**/cluster id
        iii. the **index** of the datapoint

Please, keep in mind that the following assignments build on top of this tasks.