representation and how to use them.

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Module B.Inf.1240: Visualization	

## Learning outcome, core skills: Workload: Knowledge of Attendance time: 42 h · the potentials and limitations of data visualization Self-study time: • the fundamentals of visual perception and cognition and their implications for data 108 h visualization. Students can apply these to the design of visualizations and detect manipulative design choices • a broad variety of techniques for visual representation of data, including abstract and high-dimensional data. Students can select appropriate methods on new problems • integration of visualization into the data analysis process, algorithmic generation and interactive methods 3 WLH Course: Visualization (Lecture, Exercise) Examination: Practical project (2-3 weeks) with presentation and questions during | 5 C oral exam in groups (approx. 20 minutes per examinee). **Examination prerequisites:** At least 50% of homework exercises solved. **Examination requirements:**

Admission requirements: none	Recommended previous knowledge: Foundations of linear algebra and analysis (e.g. B.Mat.0801 and B.Mat.0802) and programming skills (e.g. B.Inf.1842).
Language: English	Person responsible for module: Prof. Dr. Bernhard Schmitzer
Course frequency: once a year	Duration: 1 semester[s]
Number of repeat examinations permitted: twice	Recommended semester: 3 - 6
Maximum number of students: 50	

Knowledge of potentials and limitations of data visualization, fundamentals of visual perception and their implications for good design choices, techniques for visual