



# VIS: OPTICS<sub>vis</sub>

## Milestone 3

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Group 11

13. Dezember 2017

Fakultät für Informatik

# Agenda

1. Project

Motivation

2. Users and Tasks

3. Demo

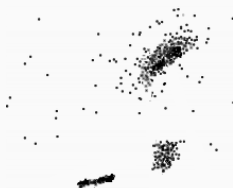
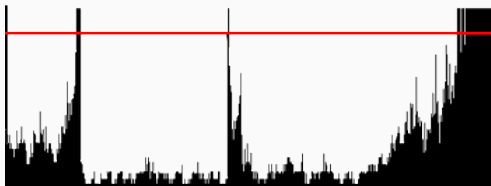
4. Challenges and Problems

# Project

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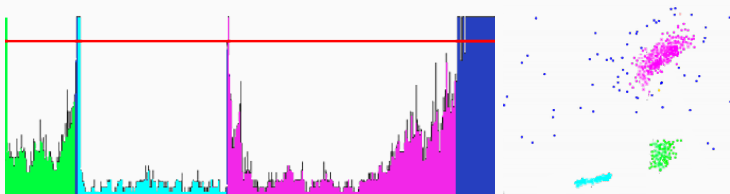
# Project definition

- OPTICS: density based clustering
  - algorithm jumps between points in some order
  - records jump distances
- output somewhat hard to read
  - point order
  - a list of numbers
- staple visualization method: the bar chart



# Project definition

- colorizing helps a lot
  - but how does it *work*?
  - how do these numbers relate to the data?
  - parameterization?
    - min pts
    - eps
- OPTICS<sub>vis</sub>



## Users and Tasks

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- Teachers
  - for educational purposes
- Researchers
  - exploration
  - testing before practical usage
- Anyone
  - exploration

- Exploration
  - get a feeling for the algorithm, get to know it
- Education
  - learn about the algorithm and how to interpret the output
- Testing
  - give an idea if the algorithm fits the users problem
  - see if result/output is satisfactory and useful



Demo

## Challenges and Problems

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# Challenges and Problems

- slow implementation
- some aspects of the visualization rely on running the algorithm repeatedly, locks up the interface
- would benefit from backend
- hierarchical clusters are meh

Thanks for your attention!  
Questions?