universität wien

VIS: OPTICS$_{vis}$
Milestone 3

Group 11

11. Dezember 2017

Fakultät für Informatik

Agenda

1. Project

   Definition

2. Users and Tasks

   Data

3. Demo

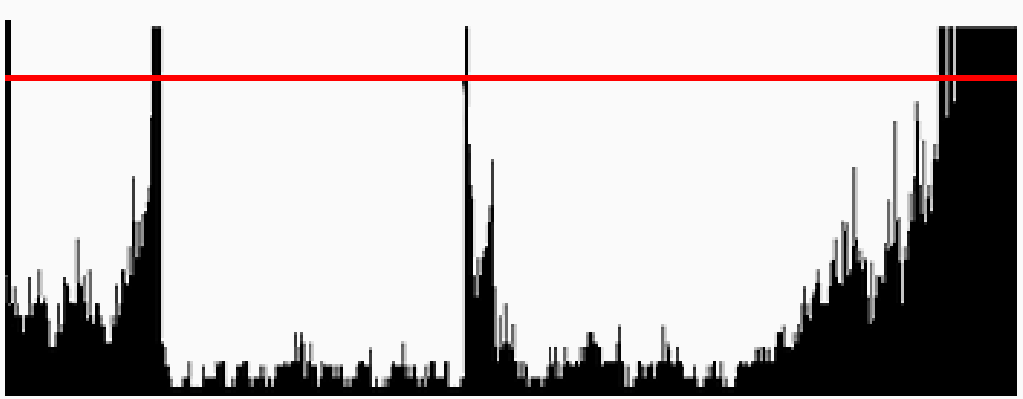
4. Visualization techniques

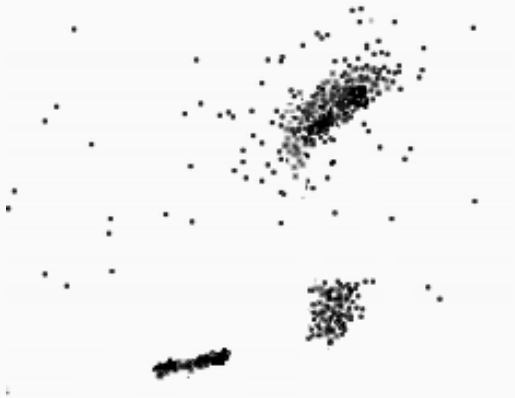
5. Challenges and Problems

Project

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

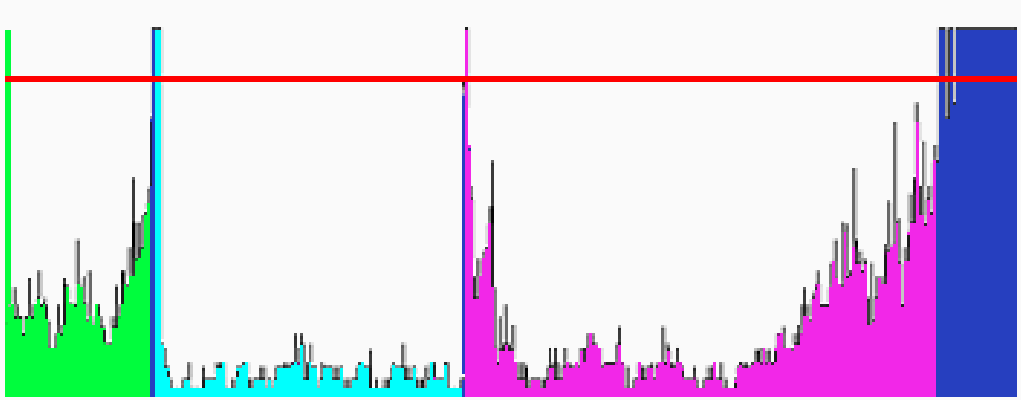


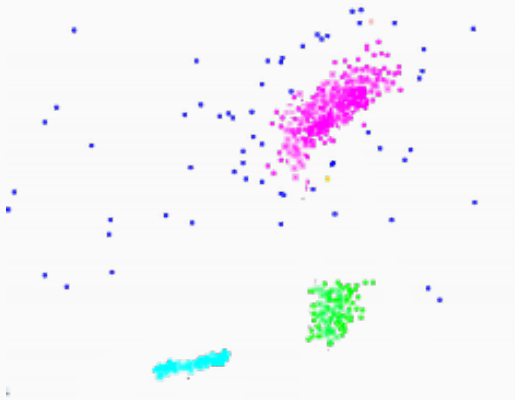


Project definition

- colorizing helps a lot
- but how does it *work*?
- how do these numbers relate to the data?

  $\rightarrow$ $\text{OPTICS}_{\text{vis}}$





Users and Tasks

Users

Tasks

Our data

- threefold:
  1. points: real-valued and two dimensional (user input)
  2. algorithm output: point ordering and reachability distances
  3. metadata: to be collected as the algorithm runs
- visualize both the data set and the results
- give a rough overview of the steps the algorithm did

Demo

Visualization techniques

Visualization techniques

- filtering
- linking & brushing
- tooltips
- zooming
- heat map
- scented widget
- aggregation

Challenges and Problems

Challenges and Problems

- slow implementation
- bla bla
- bla