

VIS: OPTICS_{vis}

Milestone 2

Group 11

21. November 2017

Fakultät für Informatik

Agenda

1. Project

Definition

Data

Possible Visualizations

2. Mockups

Mockup 1

Mockup 2

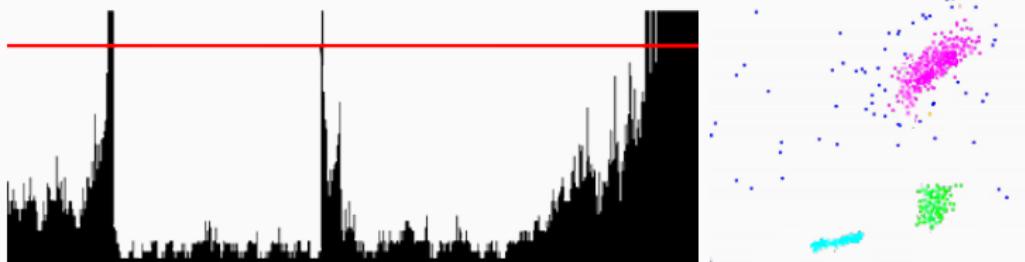
Mockup 3

3. Future Work

Project

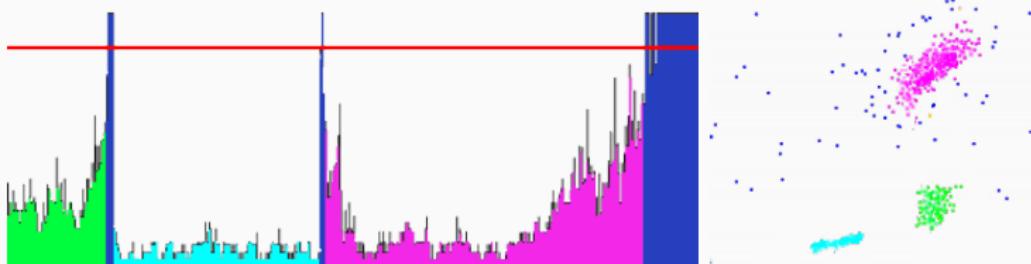
Project definition

- OPTICS: density based clustering
- 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?
→ OPTICS_{vis}



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

Visualization possibilities

Density map

OPTICS is density-based, maybe the visualization should be too. Avoids clutter when many points present.

Reachability distances

OPTICS and bar chart belong together.

Heat map

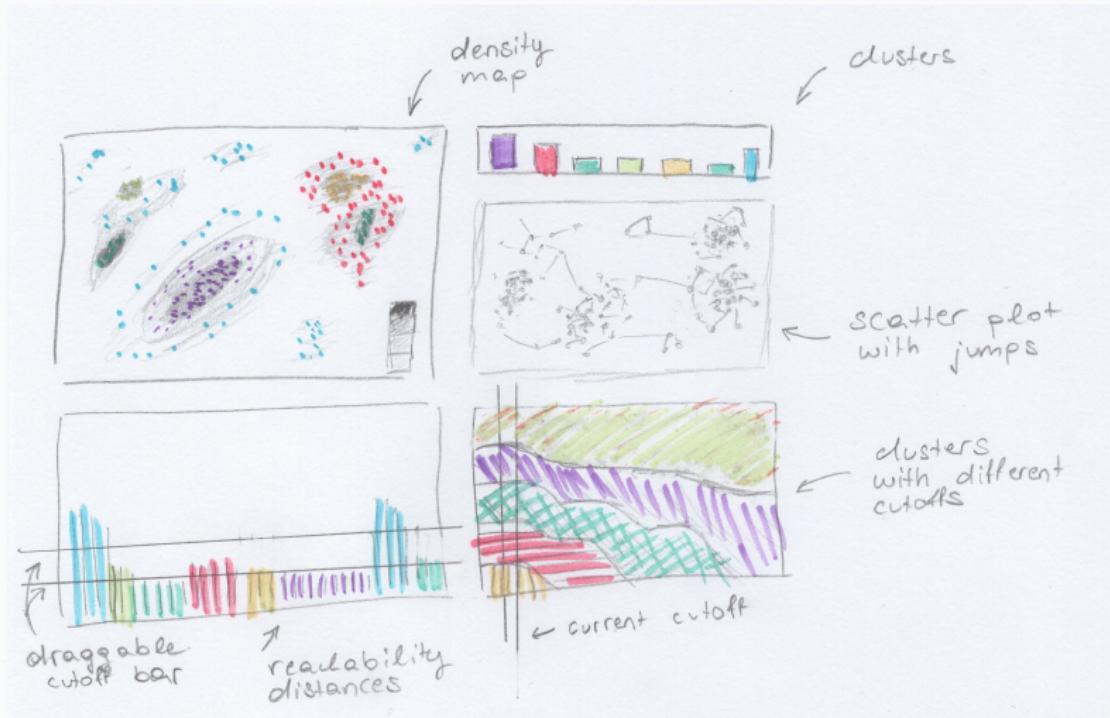
Similarities of points mapped to both axes reveal hierarchical structures.

Mockups

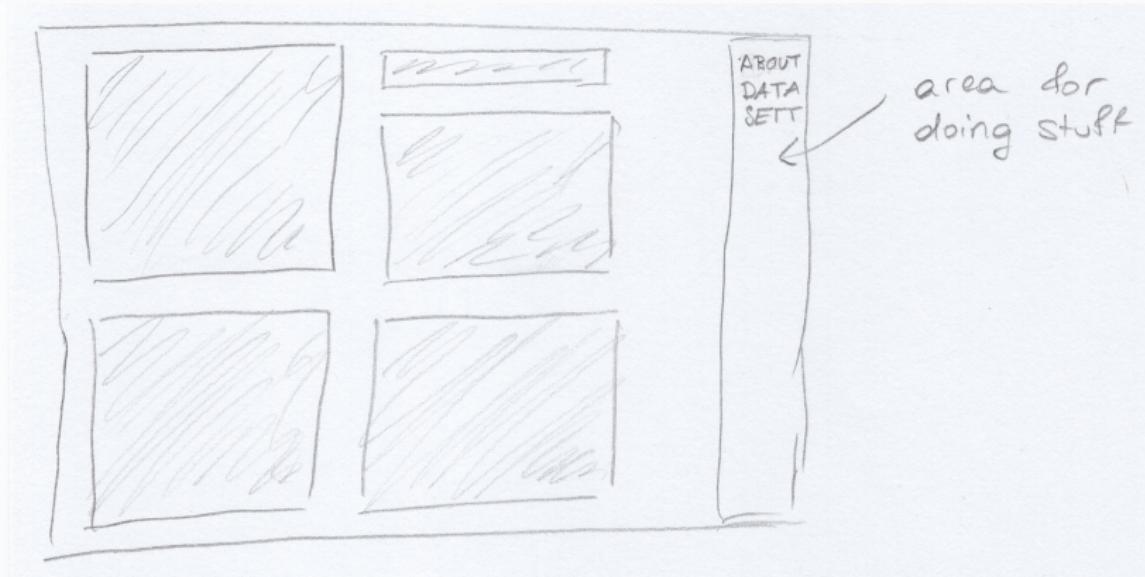
Mockup 1

Mockup 2

Mockup 3



Mockup 3



Future Work

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