

# You may also like...

A recommendation system for movies  
based on Self Organizing Maps

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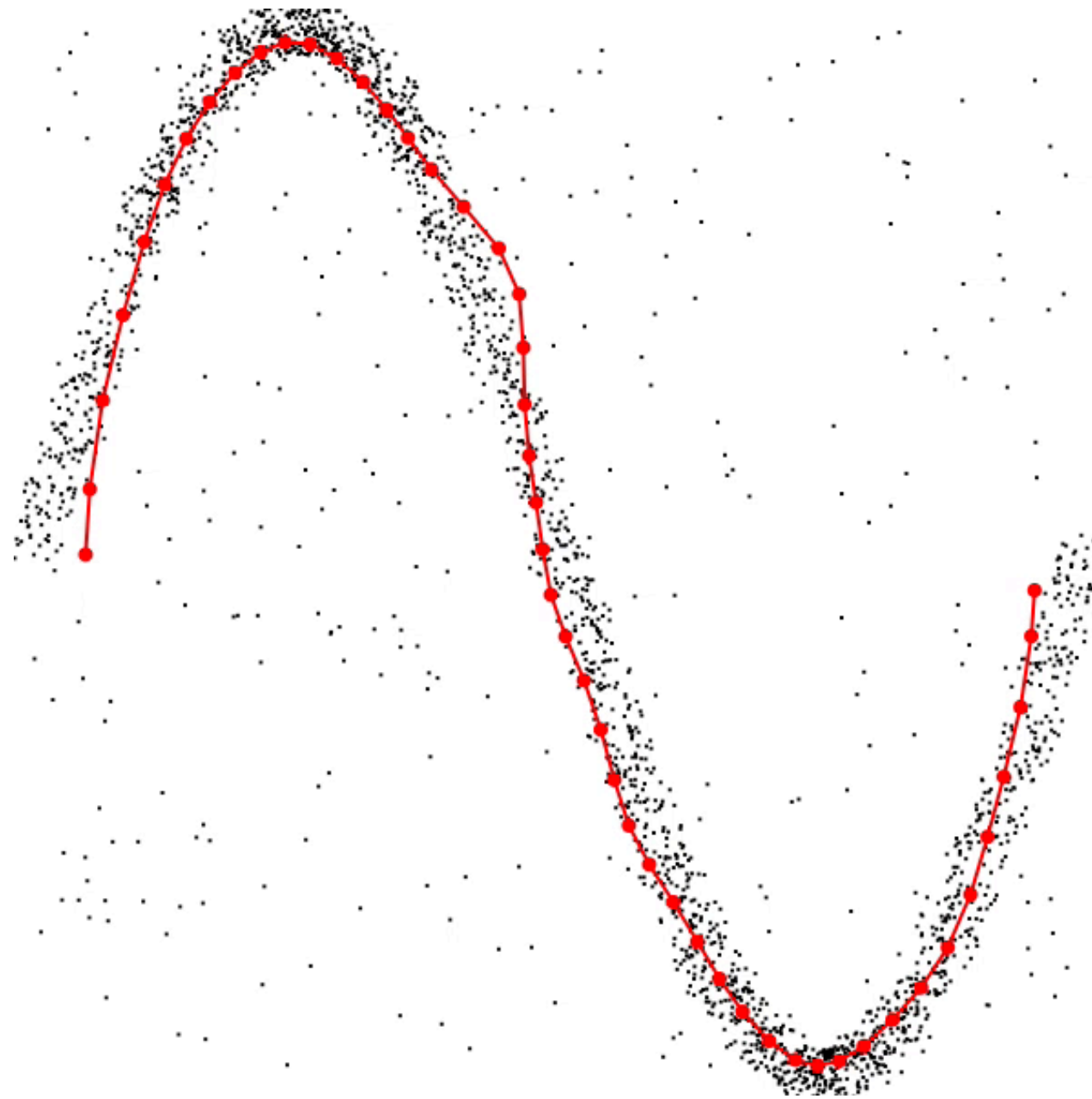
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# Self Organizing Maps

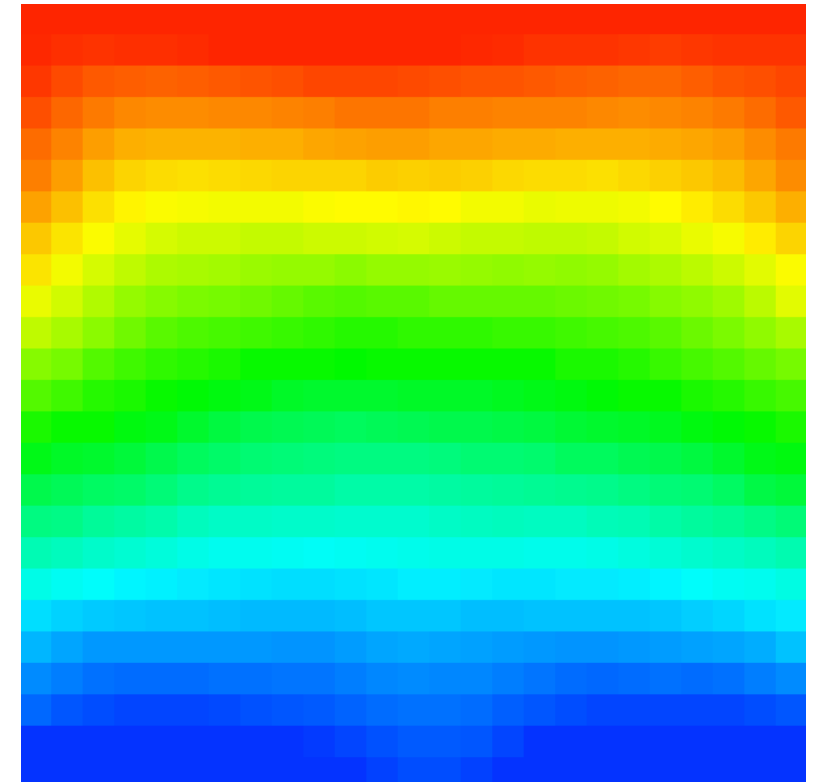
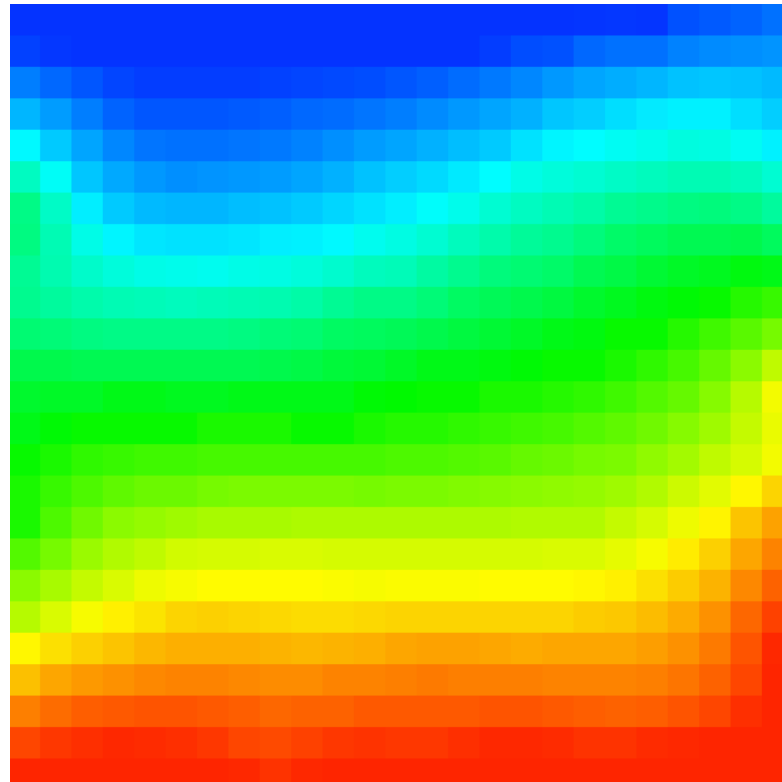
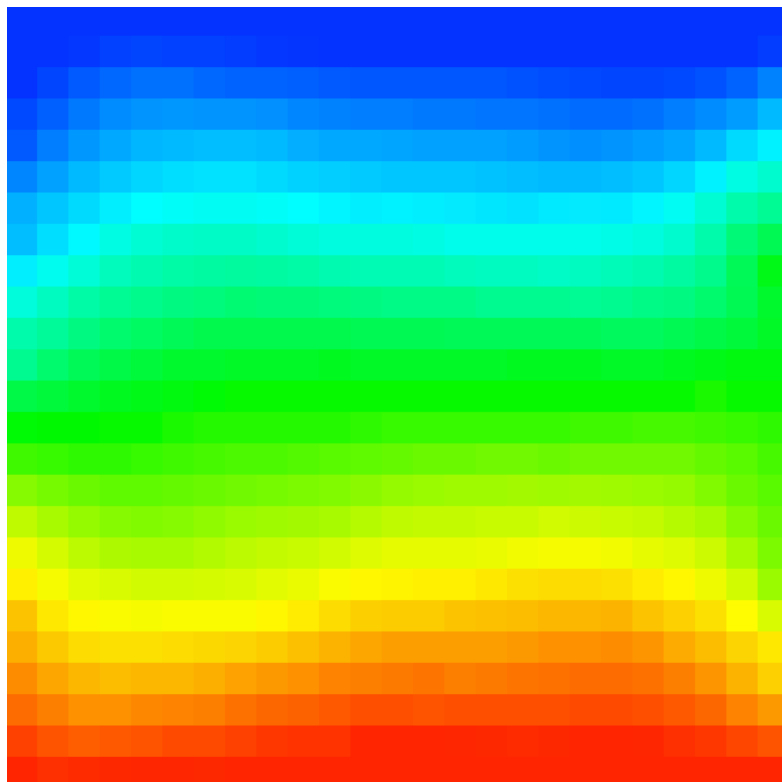
# Self Organizing Maps...

... Reduce Dimensionality while preserving Topology



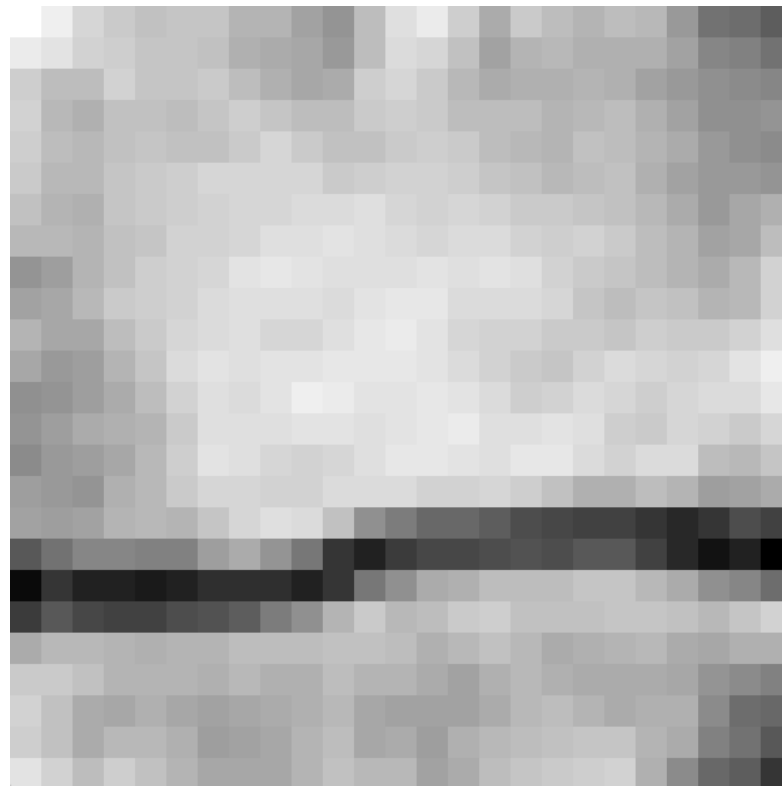
# Component Planes...

... reveal related and opposed features



# Distances between Nodes...

... show cluster boundaries



# A Recommendation System using Self Organizing Maps

# Training a SOM with a Dataset of Movie Ratings

- MovieLens Dataset containing ratings and genres of movies
- Three Experiments:
  - Map of movies based on ratings by users
  - Map of users based on ratings of movies
  - Map of movies based on membership to genres



# Expected Results

- SOM will group similar movies / users together
- Personal suggestions for users can be found
- Genres can be analysed

# Future Work

This is the first week of the proseminar, so not much has been done

SOM has already been implemented (and you have seen it in action)

- Dataset needs to be converted into a set of vectors
- Different experiments need to be conducted
- Results need to be evaluated

# One More Thing...

# Traveling Salesman Problem

