

# Hypervariate Information Visualization

Hauptseminar "Information Visualization" – Wintersemester 2008/2009

---

---

---

---

Bartholomäus Steinmayr

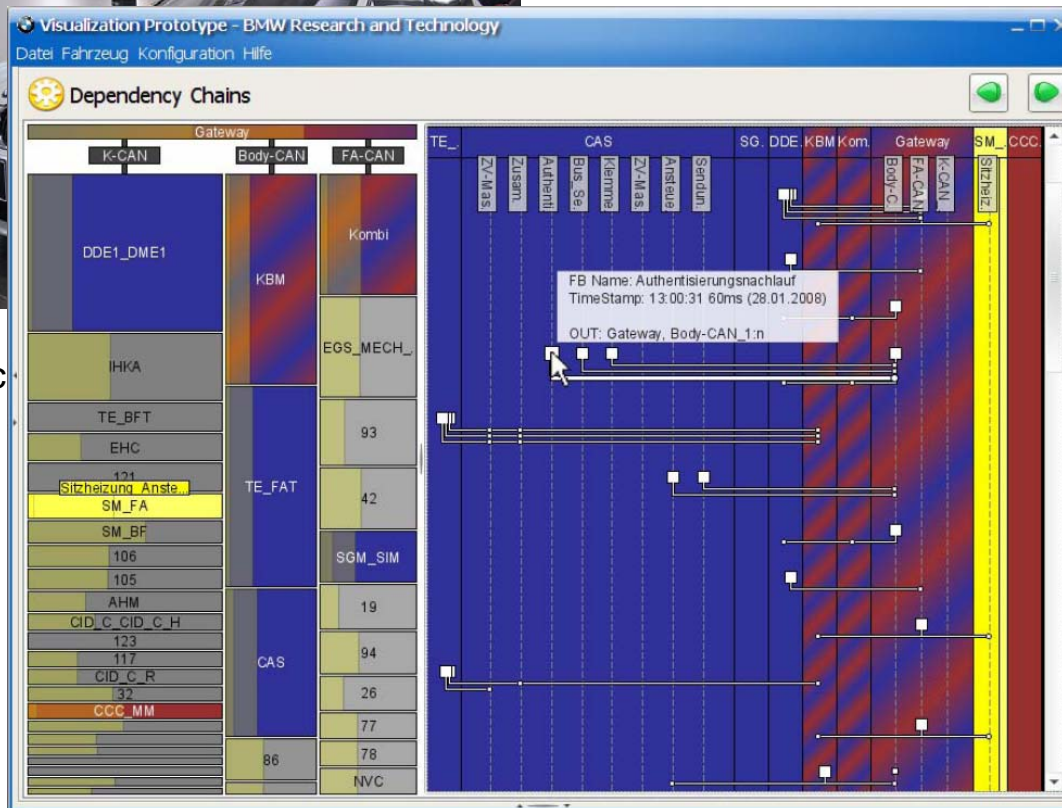
LFE Medieninformatik

11.11.2008

# The need for visualization



Modern cars c



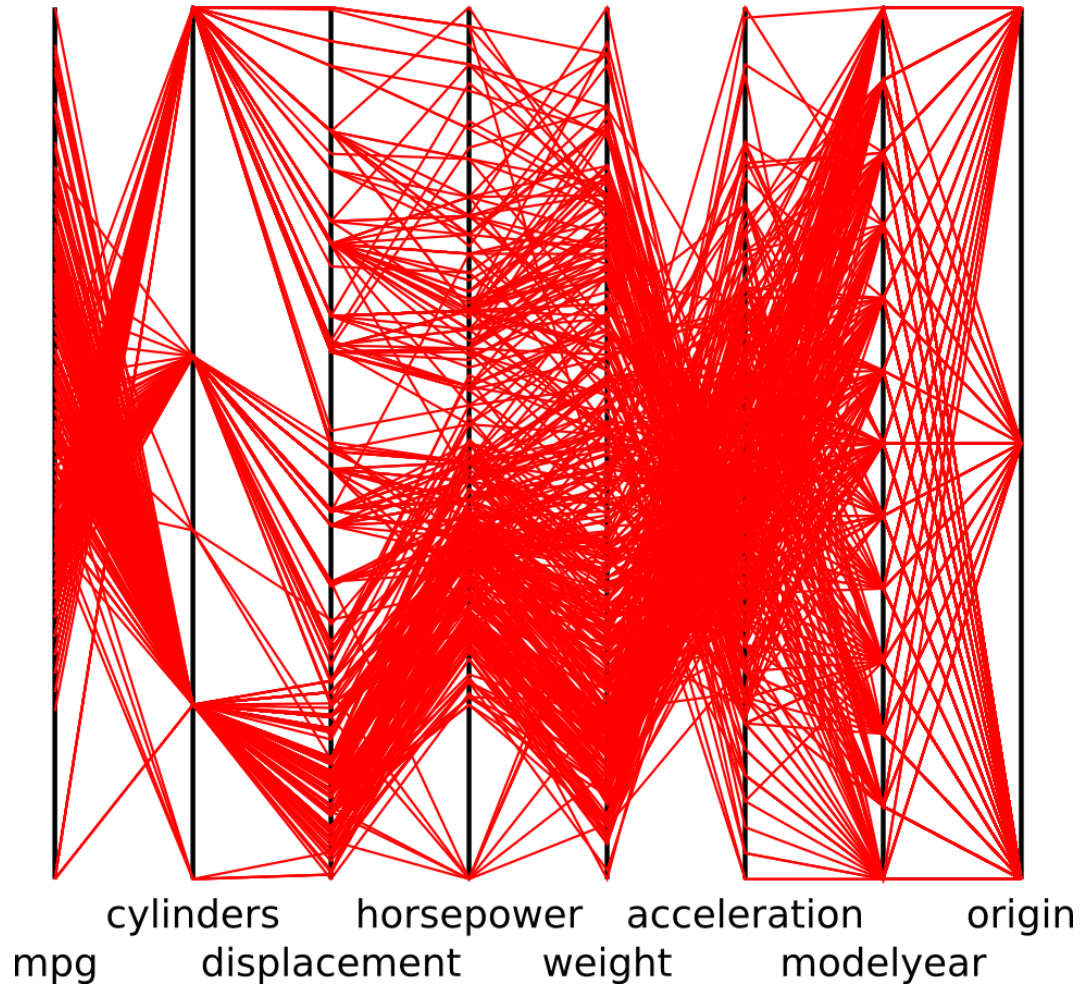
easily top that

(Sedlmair et. al:  
A Dual-View Visualization of In-Car Communication Processes, 2008)

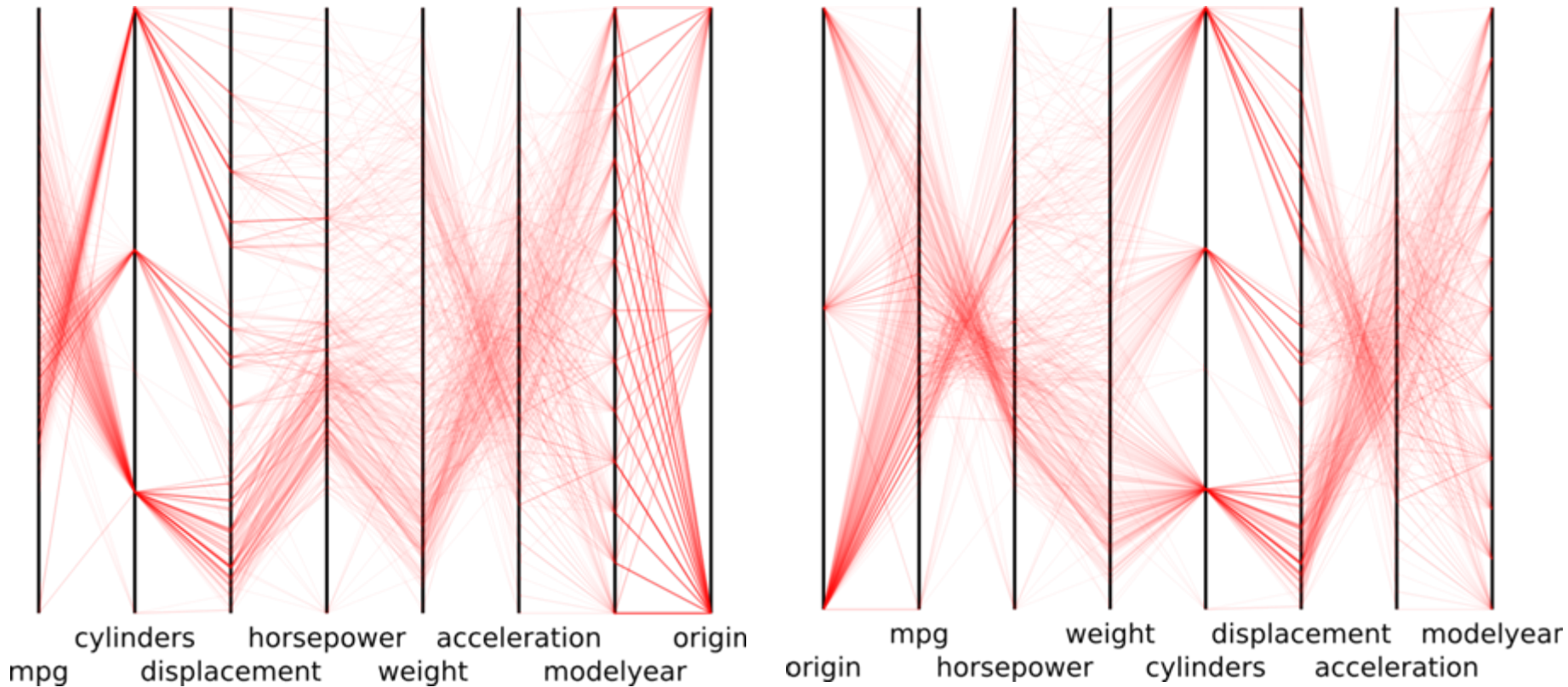
# Hypervariate Data

- ≡ Many relevant datasets contain more than three dimensions
- ≡ Specialized methods are necessary for visualizing this kind of data
- ≡ Coming up: An overview of such methods

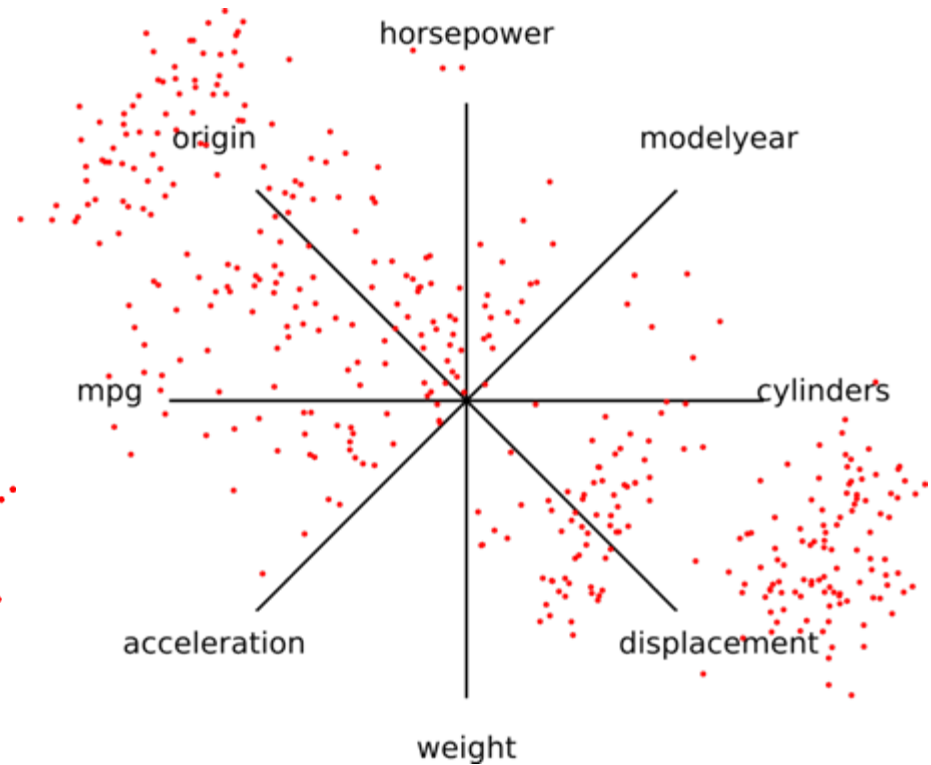
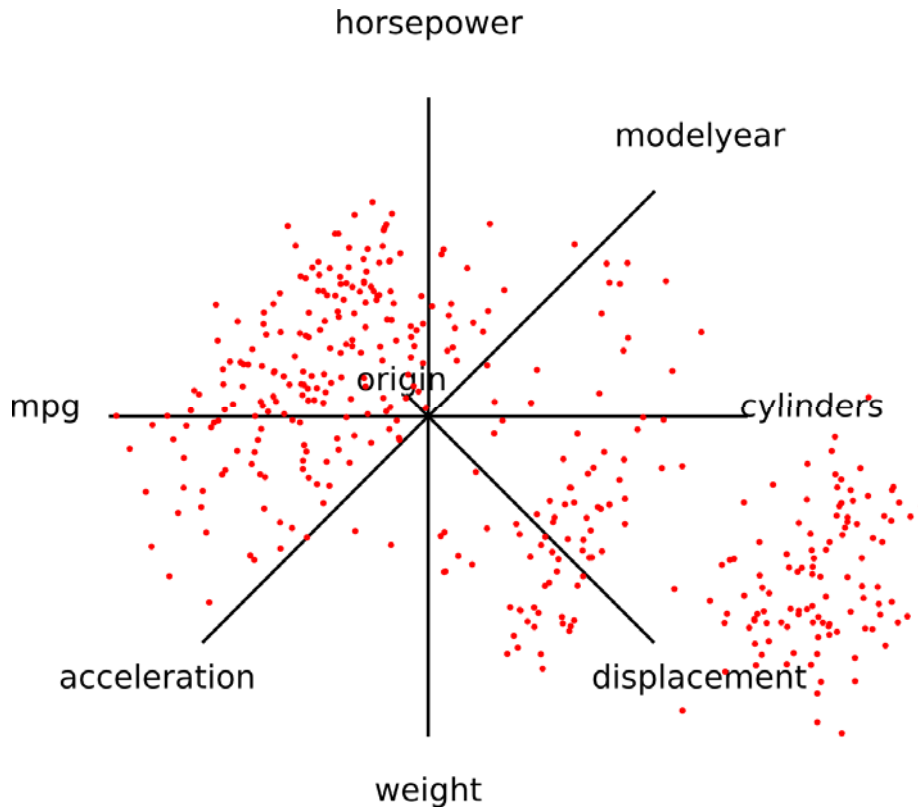
# Parallel Coordinates



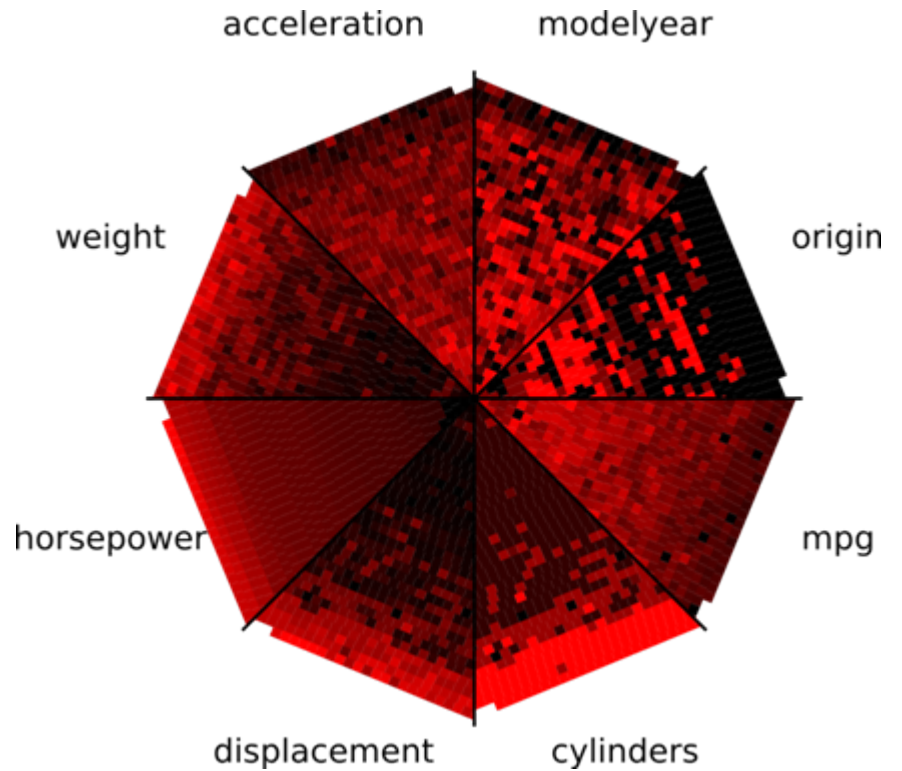
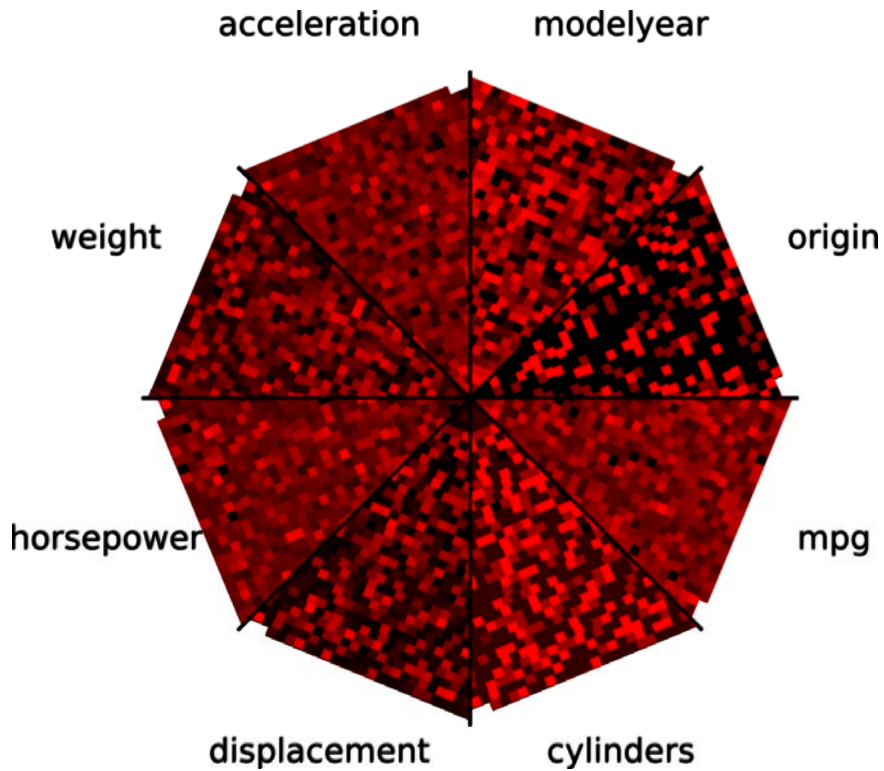
# Parallel Coordinates



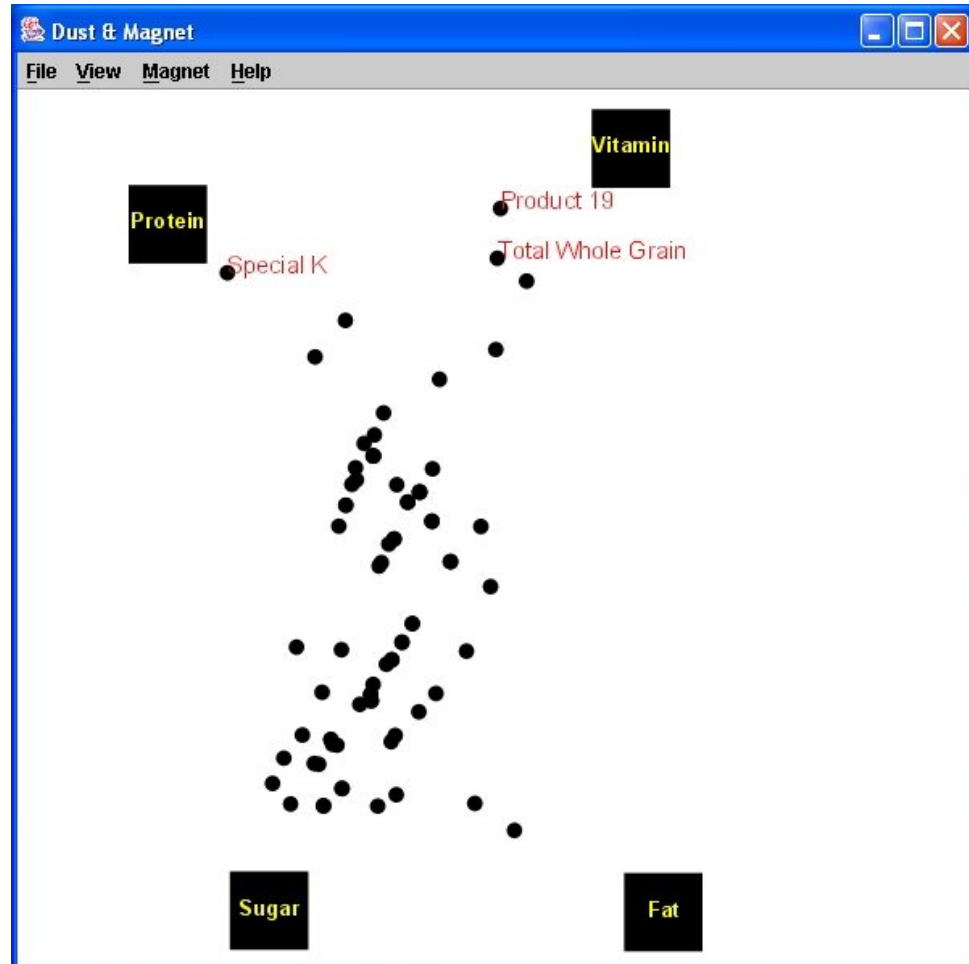
# Star Coordinate Plots



# Circle Segments



# Dust and Magnet



(Ji et. al, <http://www.cc.gatech.edu/gvu/ii/dnm/>)



# Quantitative Evaluation

- ≡ Presented techniques have strengths and weaknesses
- ≡ Main problem: No quantitative evaluation
- ≡ Evaluation requires user studies

# Conclusion

