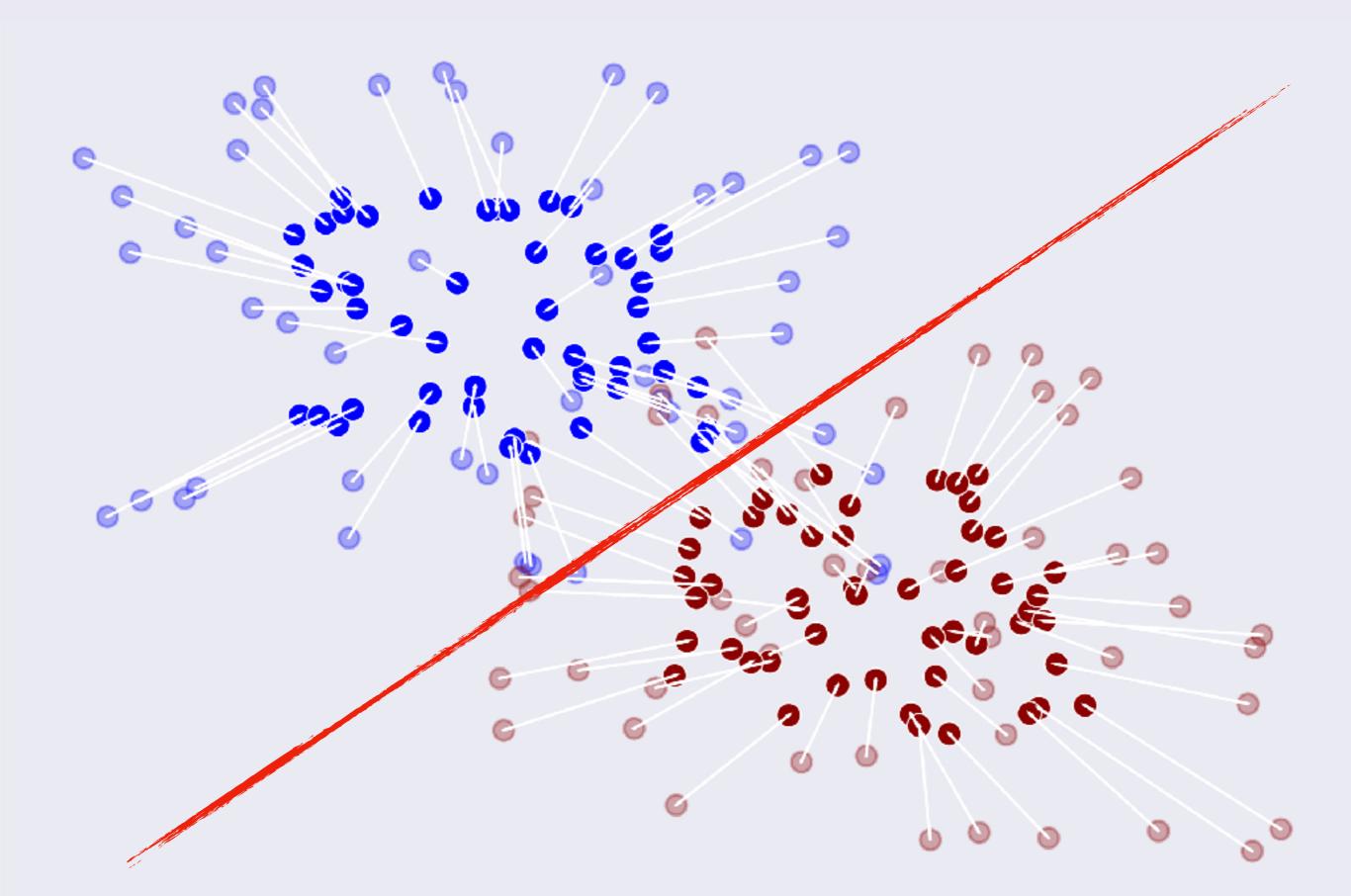


Increasing In-Class Similarity by Retrofitting Embeddings

Dirk Hovy - Tommaso Fornaciari Bocconi University - Milan

Classification



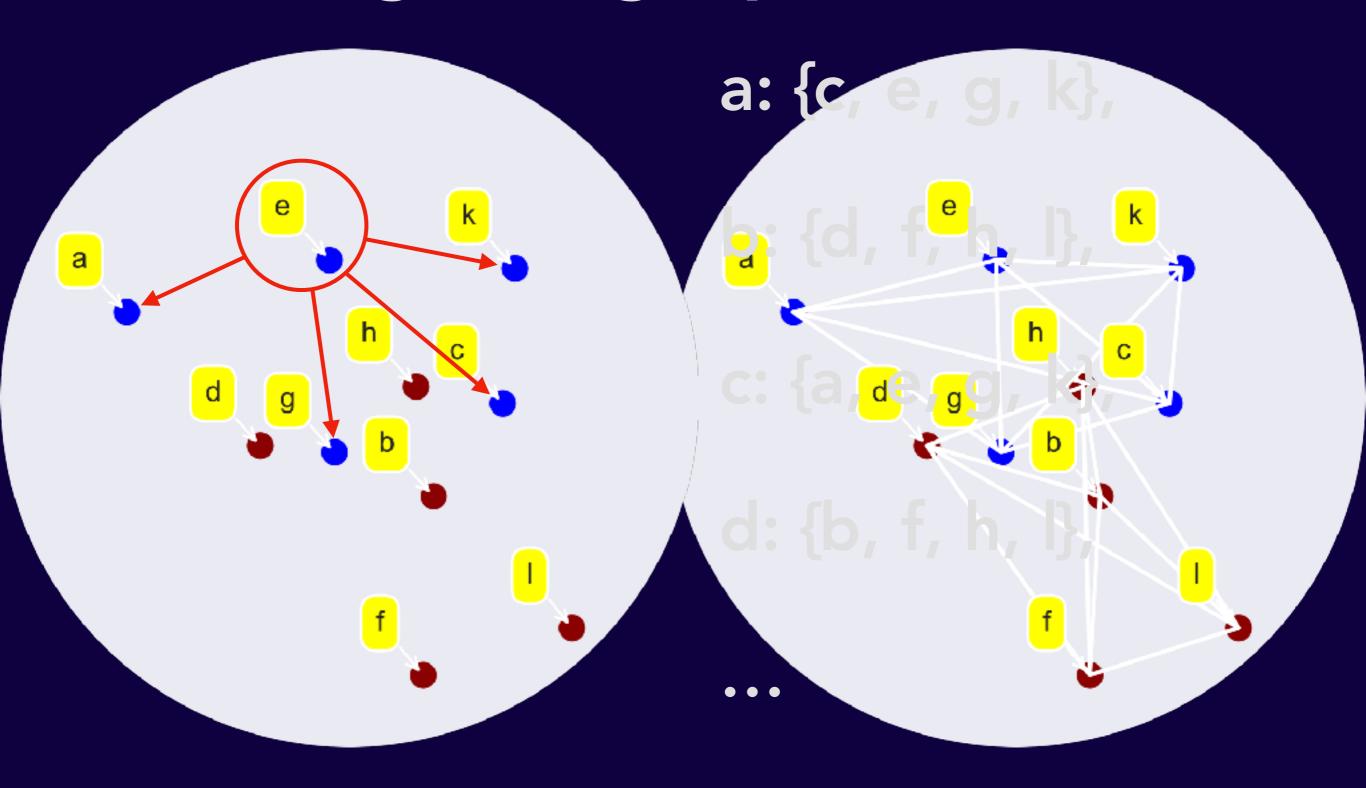
The opportunity

Homophily

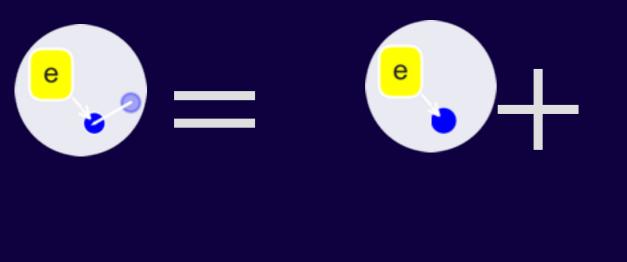


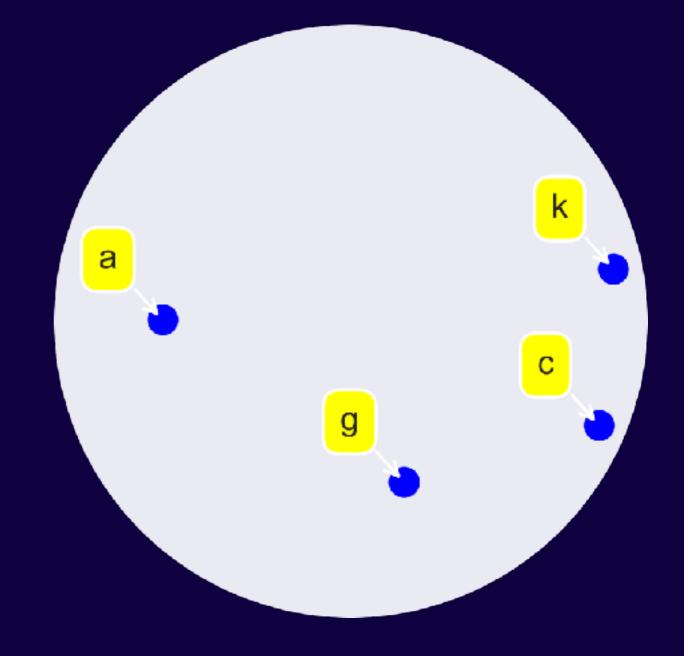
https://www.youtube.com/watch?v=xas1EJRnF1M

Extracting the graph



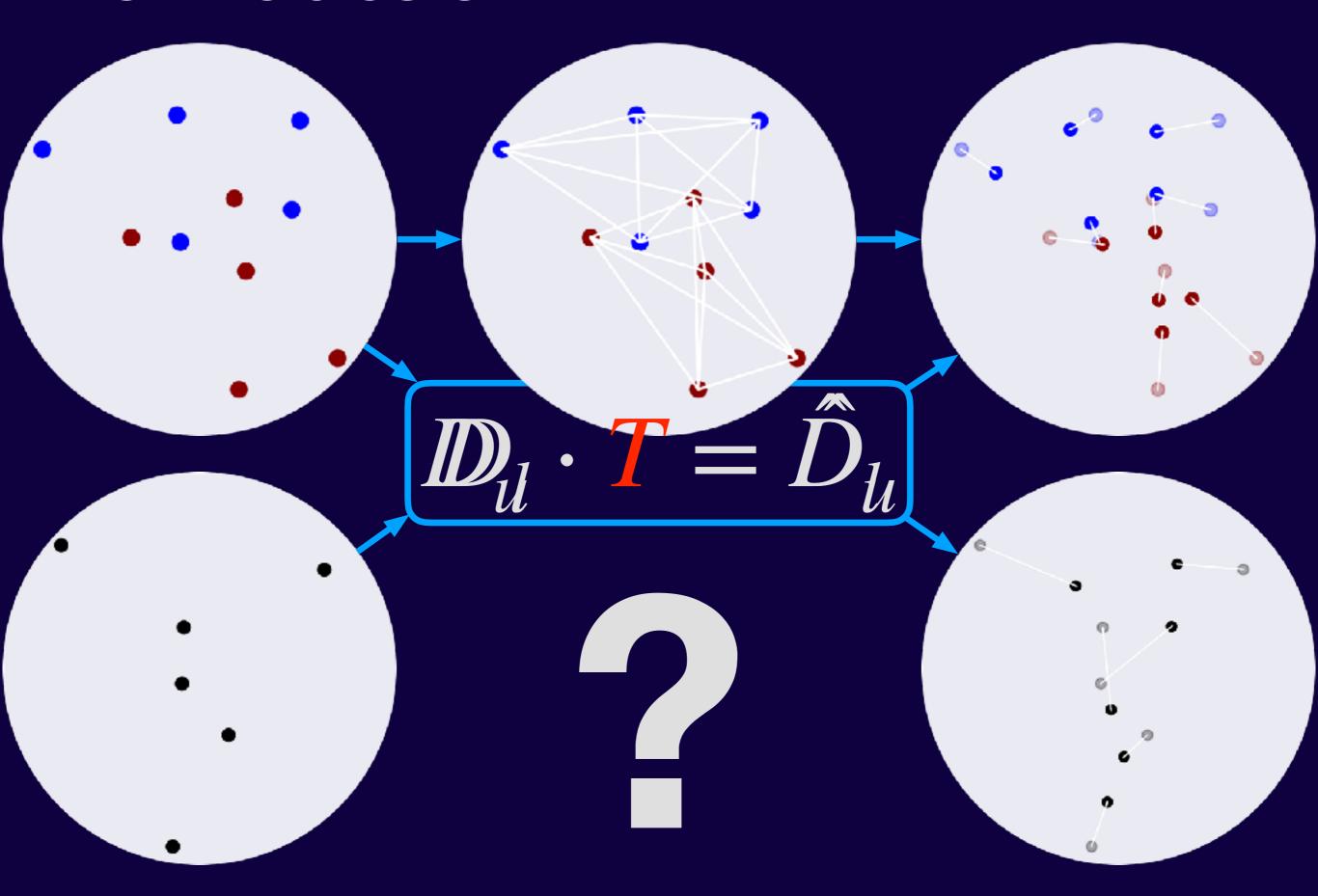
Retrofitting



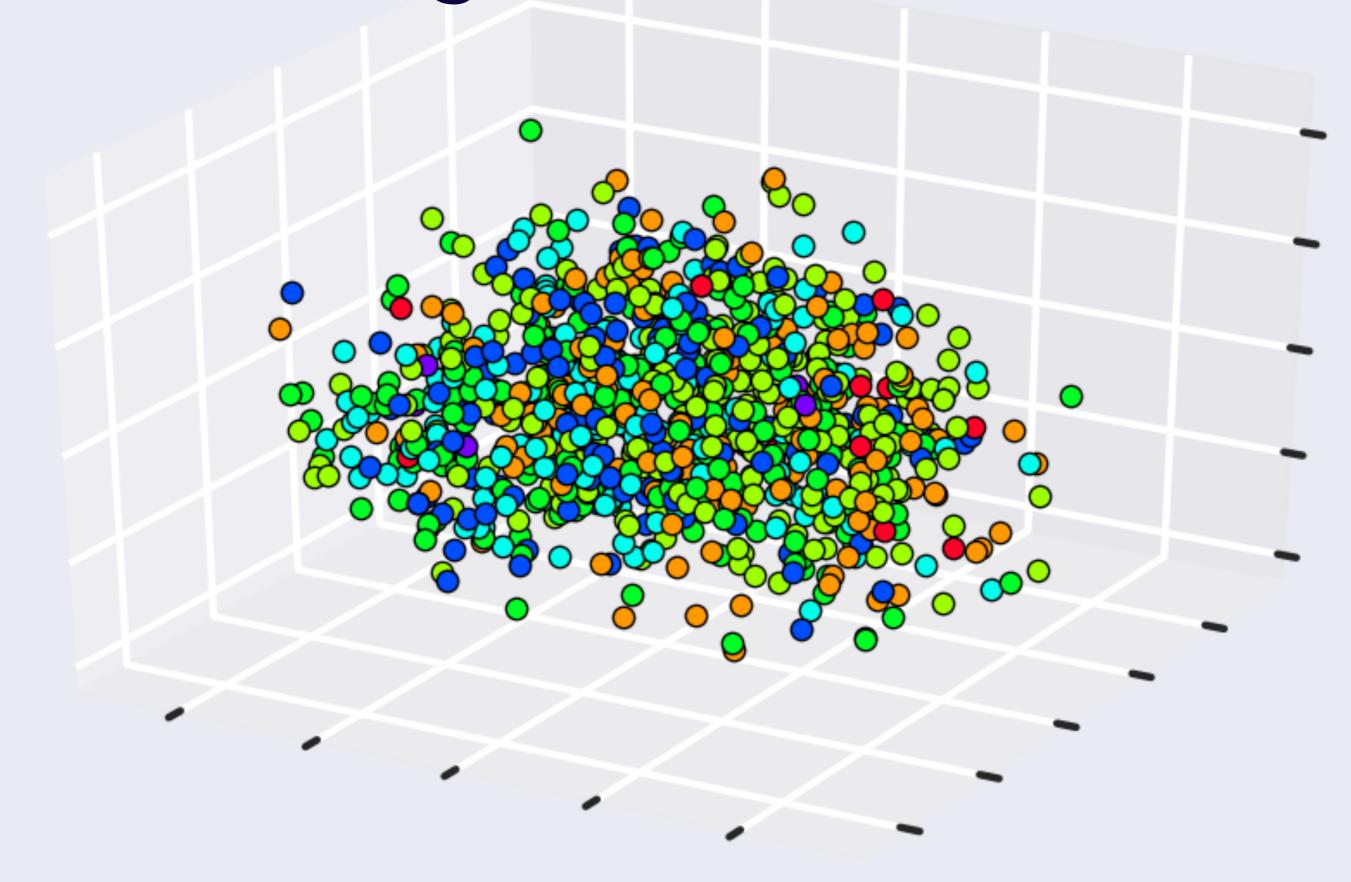


$$\beta = 1 - \alpha$$

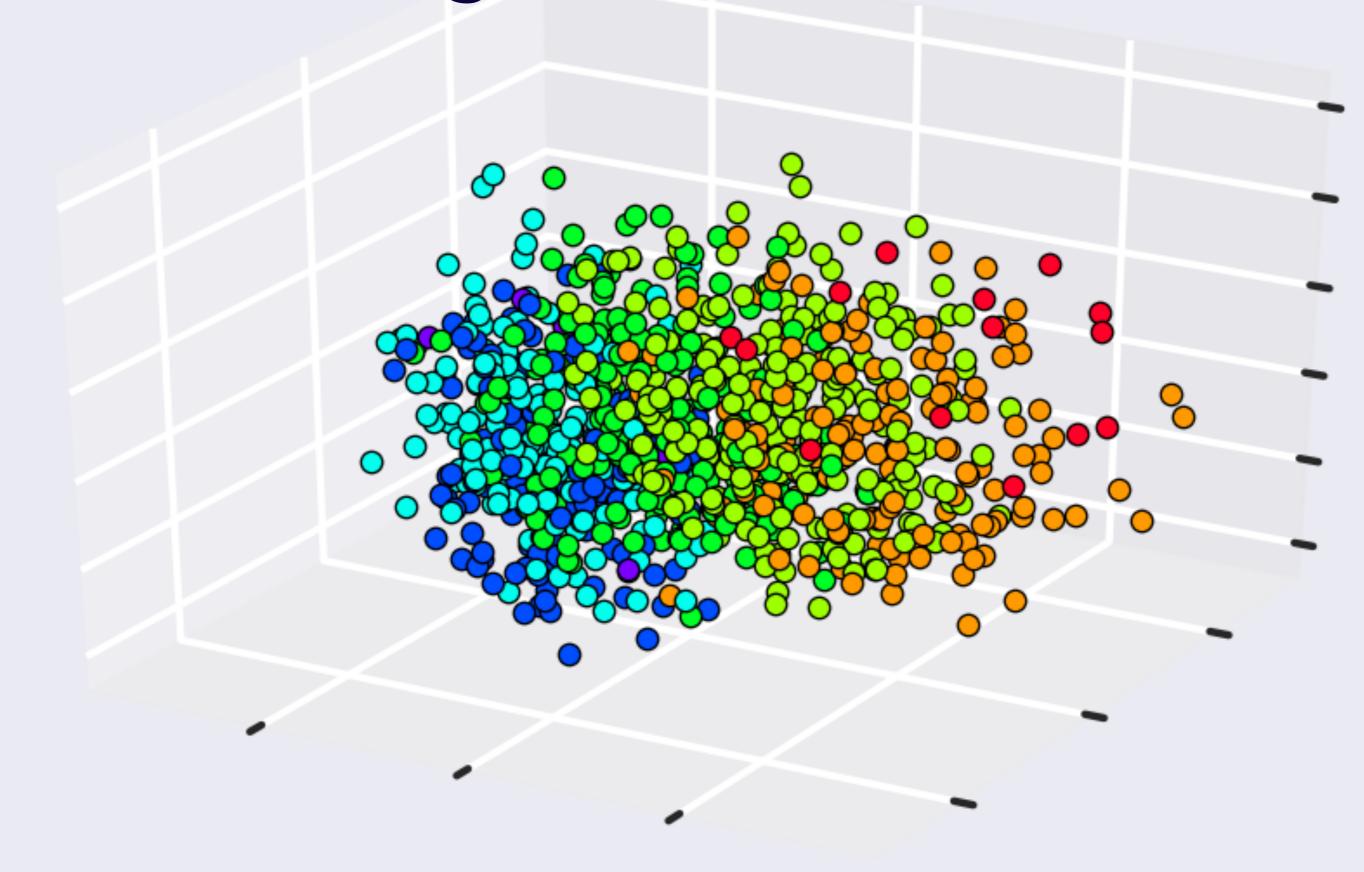
The induction



Effect on age differences



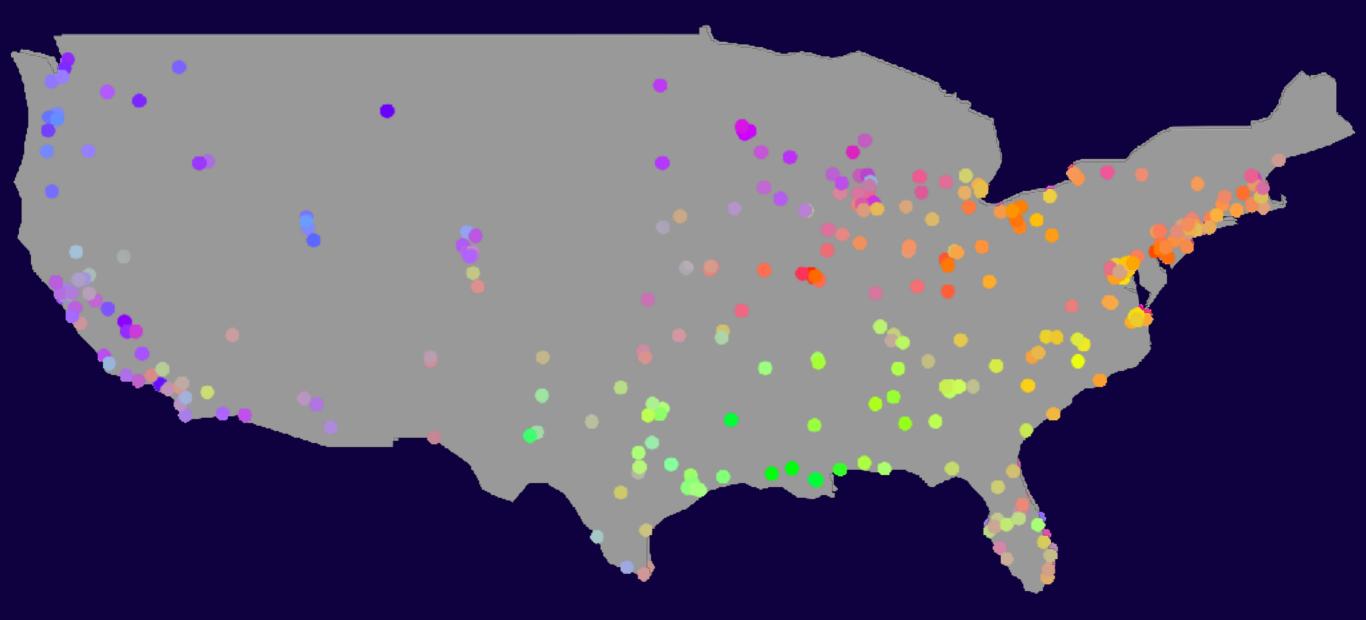
Effect on age differences



MNIST



Geolocation



See also talk on Sunday, session 10 D, 11:36

Conclusion

- Wide applicability
- Computational scalability
- Effectiveness with few data

Thanks!

Pares cum paribus facillime congregantur.

Cicero, De Senectute, III

