

# What to Learn Next

- **Natural Language Processing**
  - Foundation for all text-based applications
  - More NLP → Deeper knowledge discovery
- **Statistical Machine Learning**
  - Backbone techniques for NLP and text analysis
  - Key to predictive modeling and “big data” applications
- **Data Mining**
  - General data mining algorithms can always be applied to text
- **Text/Information Retrieval**
  - Essential system component in any text-based application (human in the loop)
  - Some techniques useful for text data mining