

# Summary of Vector Space Model

- $\text{Relevance}(q,d) = \text{similarity}(q,d)$
- Query and documents are represented as vectors
- Heuristic design of ranking function
- Major term weighting heuristics
  - TF weighting and transformation
  - IDF weighting
  - Document length normalization
- BM25 and Pivoted normalization seem to be most effective