Many Different Retrieval Models

- Similarity-based models: f(q,d) = similarity(q,d)
 - Vector space model
- Probabilistic models: f(d,q) = p(R=1|d,q), where $R \in \{0,1\}$
 - Classic probabilistic model
 - Language model
 - Divergence-from-randomness model
- Probabilistic inference model: $f(q,d) = p(d \rightarrow q)$
- Axiomatic model: f(q,d) must satisfy a set of constraints
- These different models tend to result in similar ranking functions involving similar variables