Many Different Retrieval Models

- Probabilistic models: f(d,q) = p(R=1|d,q), $R \in \{0,1\}$
 - Classic probabilistic model → BM25
 - Language model → Query Likelihood
 - Divergence-from-randomness model → PL2

$$p(R=1|d,q)\approx p(q|d,R=1)$$

If a user likes document d, how likely would the user enter query q (in order to retrieve d)?