PLSA with Prior Knowledge

- Users may have expectations about which topics to analyze:
  - We expect to see "retrieval models" as a topic in IR
  - We want to see aspects such as "battery" and "memory" for opinions about a laptop
- Users may have knowledge about what topics are (or are NOT) covered in a document
  - Tags = topics ➔ A doc can only be generated using topics corresponding to the tags assigned to the document
- We can incorporate such knowledge as priors of PLSA model