Problems with "Term as Topic"

- Lack of expressive power
- → Topic = {Multiple Words}
- Can only represent simple/general topics
- Can't represent complicated topics
- Incompleteness in vocabulary coverage + weights on words
 - Can't capture variations of vocabulary (e.g., related words)
- Word sense ambiguity → Split an ambiguous word
 - A topical term or related term can be ambiguous (e.g., basketball star vs. star in the sky)

A probabilistic topic model can do all these!