

# Summary (cont.)

- **Generative model** for text mining
  - **Model data generation** with a prob. model:  $P(\text{Data} \mid \text{Model}, \Lambda)$
  - **Infer the most likely parameter values**  $\Lambda^*$  given a particular data set:  $\Lambda^* = \operatorname{argmax}_{\Lambda} p(\text{Data} \mid \text{Model}, \Lambda)$
  - **Take  $\Lambda^*$  as the “knowledge”** to be mined for the text mining problem
  - **Adjust** the design of the model to discover different knowledge