Why is a LM Useful?

- Quantify the uncertainties in natural language
- Allows us to answer questions like:
 - Given that we see "John" and "feels", how likely will we see
 "happy" as opposed to "habit" as the next word? (speech recognition)
 - Given that we observe "baseball" three times and "game" once in a news article, how likely is it about "sports"? (text categorization, information retrieval)
 - Given that a user is interested in sports news, how likely would the user use "baseball" in a query? (information retrieval)