An auto complete example: Google Suggestion



Mathematical Theory: Probability of a word appearing after a phrase

$$Pr\left(word \mid phrase\right) = \frac{Count(phrase + word)}{Count(phrase)}$$

Two Map Reduce:

NGramLibraryBuilder.java	To build the N-Gram based on input files.
LanguageModel.java	Build the language probabilities based on N-Gram.

