Inaugural Speech Experiment Design

- **Training Phase**
  - For those who served two terms, only his second inaugural speech was collected.
- **Classification Phase**
  - Obama's Inaugural speech
  - Bush's Second Inaugural speech
  - Bush's Farewell speech

Top Frequently used Words of the George W. Bush's Farewell Speech

Top Frequently used Words of the Barack Obama's Inaugural Speech

Training - Metaconcorderance

- Combine all concordances \( C_1, \ldots, C_m \) for a single author \( A \) into a single concordance file \( C \).

Prepare for Classification

- Collect all MTA (category) files into one folder.
- Edit the category list file by inserting the names of all category files to compare against.
- To be ready to classify some unknown snippet of text, one needs
  - All category files prepared (MTA)
  - The category list file

Mapping Classic Bayes Theorem into Naive Bayes Text Classification System

Preliminary Experiment Results (1.1): Ranking via Comparing Their Speeches with Obama's Inaugural Speech

Preliminary Experiment Results (2.2): Ranking via Comparing Their Speeches with G. W. Bush's Second Inaugural Speech

References and Acknowledgments

- **Beautiful Word Clouds**: http://www.wordle.net
- **Inaugural Speeches of Presidents of the United States**: http://www.bartleby.com/124
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Future Work

- To improve ranking accuracy, we plan to
  - use variants of Naive Bayes and address the poor independent assumption;
  - explore more linguistic, rhetorical and stylistical features such as metaphors, analogies, similes, opposition, alliteration, antithesis and parallelism etc.;
  - select more representative training datasets;
  - conduct more intensive experiments.