Word N-Grams

Summary



WordGram

- Extends predictive, Markov text generation
 - Word at-a-time instead of character at-a-time
 - Implements same IMarkovModel interface
- Developed MarkovWordOne first
 - Easy transition from MarkovModel with letters
- Take a small step in changing design firsts
 - After that works, take another step
 - Keep using seven-step process as warranted!



WordGram Internals

- Developed MarkovWordOne with strings,
 then implemented WordGram for 2,3, ..., N
- Familiar methods and design, new classes
 - Tested WordGram independently of Markov, but designed with Markov in mind
 - Tested .toString() and constructor first
 - Make sure .wordAt() and .length() work
- Understand .equals(), .hashCode()
 - Needed for more advanced design



New Ideas

- Throw exceptions when "bad" calls made
 - Can't index array with -1 or array.length
 - Make WordGram behave similarly, like String
 - Must understand exceptions
- Writing functions you may not call!
 - Other methods will call them: .toString()
 - Inserting into HashMap calls
 both .hashCode() and .equals()

