Using Technology to Increase Readability of Instructional Materials

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- Textbooks are a common medium used for making connections between students and content
- More self-authored or editable textbooks available
- Use of language becoming increasingly important
  - Changing student demographics-more students from diverse language backgrounds and non-traditional academic preparation
  - GAISE recommends teaching that emphasizes statistical literacy, development of statistical reasoning, and conceptual understanding

Textual Analysis Applications:

Lextutor Vocab Profiler: http://www.lextutor.ca/vp/eng/


Consider the following exercise from a nationally published 2003 statistics textbook:

“A citrus grower association believes that the mean consumption of fresh citrus fruits by people in the U.S. is at least 94 pounds per year. A random sample of 103 people in the U.S. has a mean consumption of fresh citrus fruits of 93.5 pounds per year and a standard deviation of 30 pounds. At α = 0.02, can you reject the association’s claim that the mean consumption of fresh citrus fruits by people in the U.S. is at least 94 pounds per year?”


Website with links to relevant research: [http://www.math.utep.edu/Faculty/lesser/ELL.html](http://www.math.utep.edu/Faculty/lesser/ELL.html)