

Laurence Anthony

Center for Language Education in Science and Engineering Faculty of Science and Engineering, Waseda University http://www.antlab.sci.waseda.ac.jp/ anthony@antlab.sci.waseda.ac.jp

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- Outline

Background

- How many words does a learner need to know?
- Implications for curriculum design
- Lexical profiles and language simplification
- AntVocabCheck: A lexical profile and
 - simplification tool
 - Features of AntVC
 - Getting started with AntVC
- Application of AntVC in the creation of course materials at Waseda University

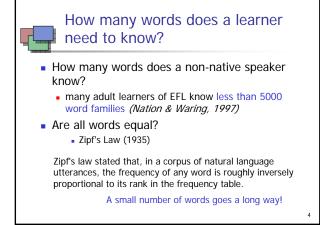
How many words does a learner need to know?
How many words are in English?

988,968 different words (*Payack, 2006*)
Webster's 3rd International Dictionary ~54,000 word families (*Nation & Waring, 1997*)

How many words does a native speaker know?

Native speakers typically learn 1000 word families each year of their life (*Nation, 2001*)
Typical university graduate ~20,000 word families (*Nation, 2001*)

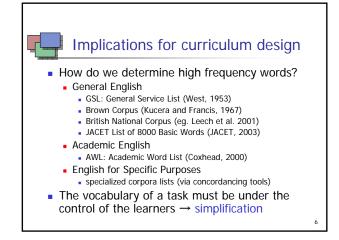
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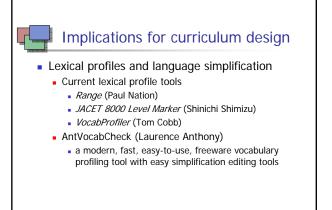


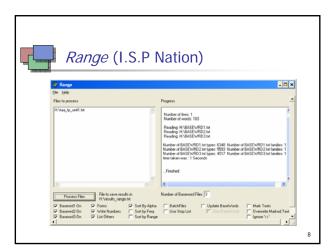
How many words does a learner need to know?

- Result for the Brown Corpus (1 million running words)
 - 2000 basewords = 80% coverage
 comprehension (without dictionary) is possible with 95% coverage (Laufer, 1989)
 - learners should study high frequency items
 - learners should learn low frequency items through incidental learning (e.g. extensive reading)

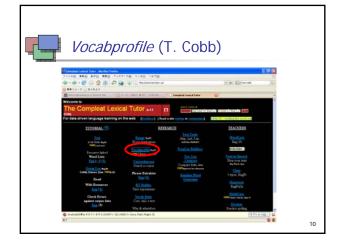
Size	(%)
1000	72.0
2000	79.7
3000	84.0
4000	86.8
5000	88.7
15,871	97.8
Francis and i	Kucera (1982)

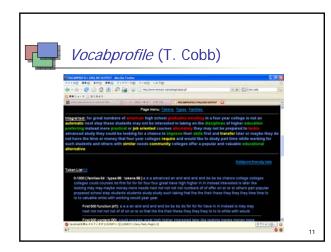


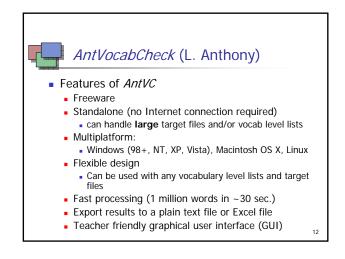














- **Step 1**: Download the software (*AntVC*)
- Step 2: Import a baseword family/lemma list (to convert word inflections to base forms)
 e.g. Nation's basewords (pre-installed)

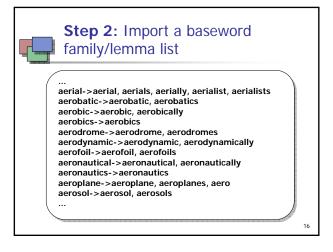
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- Step 3: Import one or more level lists
 e.g. Jacet 8000, GSL, AWL, ...
- Step 4: Analyze a target file

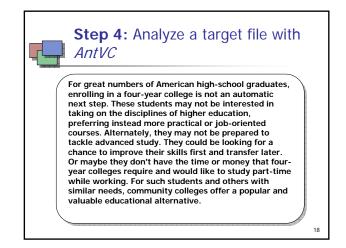
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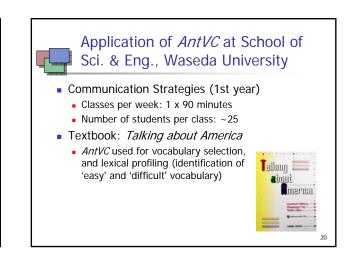
Application of *AntVC* at School of Sci. & Eng., Waseda University

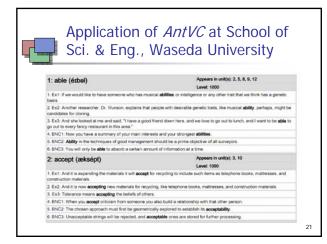
• Courses offered:

- **1st year**: Communication Strategies, Academic Lecture Comprehension
- 2nd year: Academic Reading, Concept Building and Discussion
- 3rd/4th year: Technical Writing, Technical Presentation, Special Topics in Functional English
- Graduate School: Technical Writing, Technical Presentation, Technical Communication

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- Classes per week: 2 x 90 minutes
- Number of students: ~1800 (1st year)





Summary	
 Evaluation and simplification of vocabulary are essential components of language program design 	
 AntVocabCheck (AntVC) is a standalone, multiplatform, flexible, fast, and user friendly tool for lexical profiling and simplification 	
 AntVC has already proved to be an effective aid in the development of course materials at School of Science and Engineering, Waseda University 	
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