AntPConc: A Freeware Multi-Platform Parallel Concordancer Laurence ANTHONY Professor, Center for English Language Education, Waseda University, Japan Honorary Research Fellow (2013-2015), Lancaster University anthony@waseda.jp http://www.antlab.sci.waseda.ac.jp/software/

Background Definitions and uses of parallel corpora Current desktop and web-based parallel corpus tools The need for new desktop and web-based parallel concordance tools Overview of AntPConc design and features case study using AntPConc demonstration

Background

Parallel corpus (a definition): "A set of texts in language A and their translations in language B" (Kenning, 2010) Related terms: aligned corpus, bilingual corpus, comparative corpus, comparable corpus, multilingual corpus, translation corpus Existing parallel corpora: Arabic English Parallel News, Babel English-Chinese Parallel Corpus, CEXI, COMPARA, CRATER, English-Chinese Parallel Corpus, EMILLE, English-Russian Parallel Corpus, ENPC, SPC, Europarl, Hansard French/English, Hong Kong Bilingual Corpus of Legal & Documentary Texts, ICE, IJS-ELAN corpus, INTERSECT, JOC, JRC-Acquis, KACENKA, Le corpus BAF, MLCC, OPUS, OMC, PKU Babel Chinese-English Parallel Corpus

(Bookmarks for Corpus-based Linguists, Routledge Handbook of Corpus Linguistics)

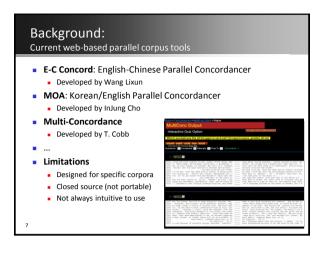
Background: Using parallel corpora (in and beyond translation): Barlow, M. (2000); Botley, McEnery, and Wilson (2000); St. John, Elke (2001); Johanson, E. C., Kilimci, S., and Megyesi, B. (2010), Danielsson P. & Mahlberg, M. (2010), Chujo et. al. (2005-2013). Main advantage in translation studies investigation (and avoidance) of translation errors related to collocations and semantic prosodies (Yepes, 2011) Main advantages in the classroom: encourages independent learning via the Data-Driven Learning (DDL) approach A focus on the exploitation of authentic materials A focus on real, exploratory tasks and activities

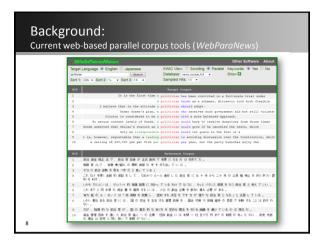
A focus on the use and exploitation of tools

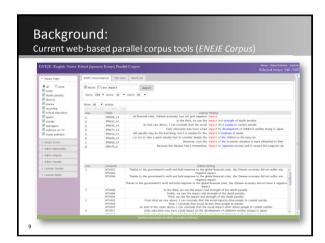
leads to higher motivation

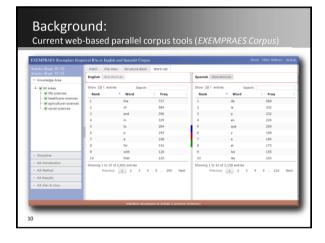
Background:
Current offline parallel corpus tools

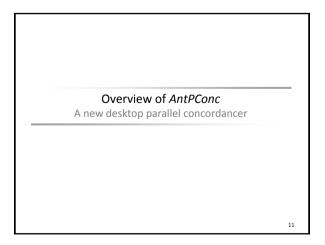
- Multiconcord (David Woolls)
- released 2002 for Windows 3.x/95
- pricing £40
- ParaConc (Athelstan)
- released 2003 for Windows 3.x/95/98/NT/etc)
- pricing \$95
- Limitations
- complex import for non-English corpora
- designed for corpus linguists
- single platform (Windows)
- commercial
- not updated

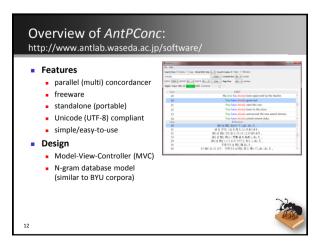


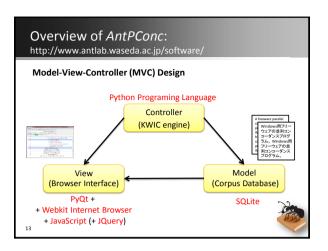


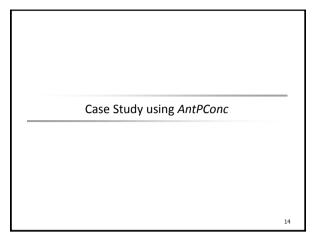












Teaching JHS/SHS vocabulary/grammar in a Japanese University context (Chujo et al. 2013)

Students

typical Japanese university students

6 years of EFL study at JHS/SHS (remedial level)

low motivation

Ability level

TOEIC 350/TOEIC 300 or below

Aim

Improve understanding of basic vocabulary and grammar items as taught in secondary school

Approach (DDL)

AntPConc

Bilingual Corpus
(e.g. American Grammar Texts)

Teaching JHS/SHS vocabulary/grammar in a Japanese University context (Chujo et al. 2013) CoBLE Parallel Corpus Overview • 10,352 English sentences (66,104 words) created from sentences found in American language textbooks (grades 1-6) included with a Japanese translation The girl looks. その少女は見ます。 saved as UTF-8 text files エ匹の魚が泳ぐ。 鳥が歌う。 ウサギは食べます。 赤ちゃんは眠る。 Rusty は家にいる。 少年たちは歩く。 母は手を振る。 Two fish swim. A bird sings The rabbits eat Rusty stays hom The boys walk. A cat looks out Birds eat food Some ducks run The dog barks. The kitten jumps. 子 ネコ が ジャンプします

Teaching JHS/SHS vocabulary/grammar in a Japanese University context (Chujo et al. 2013) **Target** Pretest Posttest Grammar Type *n* Items M (SD) α M (SD) α DDL 41 67.6 (12.7) 79.1 (12.0) JHS .96 (k = 62)Non-39 26.4 (17.6) 39.9 (19.8) DDL DDL 88 65.9 (13.6) 78.8 (10.6) SHS .72 (k = 41)Non-44 45.1 (16.1) 62.7 (18.5) DDL

Teaching JHS/SHS vocabulary/grammar in a Japanese University context (Chujo et al. 2013)

Selected student comments about the DDL approach (translated)
I was able to study at my own pace..
I was able to approach grammar learning in many different ways.
Instead of looking at textbooks/reference books, I was able to enjoy studying with a computer and AntPConc
I didn't feel as though I was learning grammar.
Using AntPConc, I could study efficiently.
Selected student comments about improving AntPConc (translated)
It should be made into a commercial tool.
It was really easy to use.
Adding sound effects (voiceover) would be good.
Sometimes the results too a while to appear.

Discussion and Summary

Discussion

The future of parallel corpus tools in corpus linguistics

- Have you used parallel corpus tools in your research?
 - If yes, what limitations/problems did you find with the software?
 - If no, why not?
- Why do you think so few parallel corpus tools are available today (for the desktop)?
 - alignment issues?
 - lack of tool developers?
 - no need for parallel corpus tools?
- What features would you want to see in the 'perfect' parallel corpus tool?
 - automatic alignment?
 - KWIC, plots, word frequencies, collocates, n-grams, ... ?

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Summary

- AntPConc is ...
 - a freeware, parallel (multi) concordancer
 - a standalone (portable) application requiring no installation
 - a Unicode (UTF-8) and Right-To-Left compliant tool
- Loading parallel corpora into AntPConc is
 - simple and easy
 - requires (almost) no knowledge of character encodings
- But...
 - AntPConc does not align corpus texts (relying on line break alignment)
 - AntPConc currently offers only KWIC concordancing

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