

# Re-thinking The Teaching of Linguistic Courses in the Computer Age

Hazidi Abdul Hamid

# The Problem

- Linguistic courses especially those involving Transformative Generative Grammar and Phonetics (and phonology) have high failure rates
- These disciplines form part of the foundations of linguistics and thus they are essential

# The Facts

- These courses require students to think differently, hence the difficulty
- These courses are tough even for full-time students.

# The Issues

- Some tutors are not competent enough in these disciplines to teach these courses.
- The students need a lot of guidance to pass these courses at the levels required.

# What to do?

- Teaching it from the other end.
- Traditional approach: teach rules then practice
- Computer Assisted approach: Teach rules then generate with computer then analyse and practice.

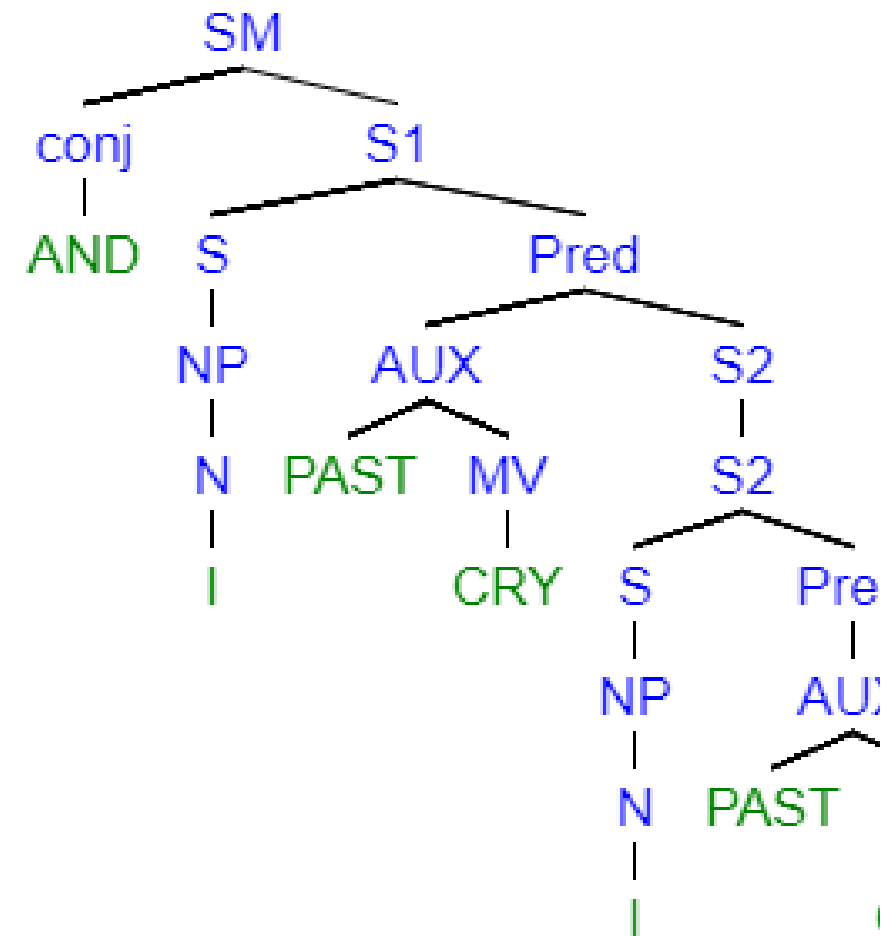
# What happens?

- The students can readily generate outcomes of the techniques, they only need to learn to recognize the correct outcome and try it out for themselves

# Computer assisted sentence parsing

What they now need to learn is to identify the constituency. Eg - "I cried and I cried"

SM [conj AND] [S1 [S [NP [N I]]] [Pred [AUX PAST] [MV CRY]]] [S2 [S2 [S [NP [N I]]] [Pred [AUX PAST] [MV CRY]]]]



# The tool to use

1. <http://mshang.ca/syntaxtree/>
2. <http://www.ironcreek.net/phpsyntaxtree/>



# Implication

- Video lectures with chapter addition for common use
  - HBET2103, HBET2203,
  - HBEL1203 & HBEL3203:
    1. What is TG grammar & PS rules
    2. How to use the internet to drag tree-diagrams
      - Add common chapter for HBET2103, HBET2203, HBEL1203 & HBEL3203:  
Title: TGG Phrase Structure analysis and tree-diagrams with the internet

# What is needed?

- To translate PS rules into simpler rule “nuggets” that students can cut and paste to form “sentences” that computers can understand
- Example:
  - Sentence
    - [S [sm] [S]]
    - [S [Subj] [Pred]]
  - Subject
    - [Subj [NP]]

# Noun Phrase

- [NP [det] [AP] N [-pl] [PrepP]]
- [NP [Pro]]
- [NP [NP] [NP]]
- [NP [NP] [AP]]
- [NP [NP] [PrepP]]

# Computer assisted phonetic transcription

1. <http://lingorado.com/ipa/>
2. <http://www.photransedit.com/Online/Text2Phonetics.aspx>

# Writing in IPA script

- <http://www.typeit.org/>
- <http://www.photransedit.com/Online/TypeIPA.aspx>