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Grammar Engineering class taught regularly (Bender)

MMT (Bender, Drellishak, Oepen, and Zabludowski)
- 10 grammars from the GE class, synced to current Matrix
- Small domain (17 sentences), using MRS as quasi-interlingua
- One transfer grammar per language
- Grammars to be released with LOGON

Validation (Poulson, Bender, Evans, Drellishak)
- Customization system allows hundreds of thousands of combos
- How can we be sure all grammars we create parse and generate correctly?

Morphology (O’Hara)
- Before, only a few simple prefixes/suffixes
- Adding support for many kinds of morpheme ordering, optionality, co-occurrence
- General mechanism for lexical rules, to be used by all future libraries
Upcoming work

- **New Libraries**
  - Tense and Aspect (Poulson)
  - Case, person, number, and gender on verbs and arguments (Drellishak)
  - Argument optionality, cognitive status of referents, additional word-order variations (Bender)

- **Revising coordination**
  - Since initial work (Drellishak & Bender 2005), new patterns found
  - Need to account for these in a general way
Issues

- Circular validation?
  - Choose a random language type, make a test suite and test
  - Challenge: the system for creating test suites cannot simply be one of our output grammars used as a generator
  - Our system for making suites is currently based on regular expressions, but must move (at least) to CFGs

- Engineering concerns vs. linguistic analysis
  - Grammars should be linguistically plausible, but also efficient and modular, but these are sometimes in tension
  - E.g. coordination, I have a general-purpose set of rules in mind, but motivated by desire for a single analysis across languages, rather than treating each language individually

- UI for morphology
  - A simple interface for extremely complex interactions
  - Assume we get the slots right, how do we integrate it with paradigms?
  - And what do we call the slots, anyway?