HSSP2010syllabus.txt

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Syllabus for HSSP Class 3390: How Language Works (Spring 2010)
Phonology - how sounds form speech
   Sounds are not discrete like letters.
  Phonemes: different languages divide sound space in different ways.
  Variation: co-articulation, different voices, noise, ...
  Categorical perception: adults do it, babies don't.
   Context: dash/tash vs. dack/tack.
   The McGurk Effect (demo): visual cues.
Morphology - how morphemes form words
  Morphemes: parts with meanings.
  Lexicon: storing the parts.
  Affixes: prefixes, postfixes, and infixes.
  Allomorphs: a and an.
  The wug test: this is a wug. now there are two. there are two ____.
  Polysynthetic languages: sentences as single words.
  Free vs. bound: which morphemes can stand alone.
   Derivational vs. inflectional: fixable vs. fixed.
  Ambiguity and internal structure: unlockable.
Syntax - how words form sentences
  Meaning-independent: Colorless green ideas sleep furiously.
  Ambiguity: I saw the man with the telescope.
  Categories of words.
  X-bar theory: phrases, heads, and binary-branching trees.
  Constituents: complete sub-trees.
  Recursion and infinity: N' -> N' PP
  Argument structures and theta roles: I read the book vs. I put the book.
  Movement: questions, passives.
Semantics - how sentences have meanings
   Set theory, first-order logic, second-order logic.
  Individuals, truth-values, and worlds.
  Compositionality: meaning of whole = structure + meanings of parts.
  Functions and the lambda notation.
   Quantifiers and movement.
   Pronoun reference and binding principles.
  Ellipsis.
Acquisition - how babies learn language
  Babies don't learn language by being told the rules.
   No negative evidence: what is not a grammatical sentence.
   But: infant-directed speech.
  Word segmentation: statistical regularities.
  Learning word meanings: this is a dog, but not, this is a between.
  Mutual exclusivity and fast-mapping.
   Shape bias in nouns.
   Cross-situational word learning: co-occurrence.
   Social cues.
   Syntax: principles-and-parameters vs. item-based acquisition.
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