Linguistics

- Phonology sound
- Morphology word composition
- Syntax structure
- Semantics meaning
- Pragmatics implications

Types of Grammars

- Type 0 Grammars
 - No restrictions on rules: rules may be recursive, and any number of symbols may occur on either side of a rule
- Type 1 Grammars Context-Sensitive Grammars
 - Grammars in which every rule is of the form $\sigma A \tau \rightarrow \sigma \phi \tau$
 - Where A is nonterminal and σ and τ are arbitrary strings of terminals and nonterminals, with ϕ nonempty









Embedded English Sentences

• If either the girl eats ice cream or the girl eats candy then the boy eats hot dogs.

Embedded English Sentences (Dependencies)

- Daddy, what did you bring that book I don't want to be read to out of up for?
- How Ann can claim Pam Dawber's anger at not receiving her fair share of acclaim for Mork and Mindy's success derives from a fragile ego escapes me.























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Truth Conditional Semantics

- Truth Conditional (Formal) Semantics – Conditions that have to hold for a word to be true
 - constitute its meaning – Word Meaning: necessary and sufficient conditions
 - for category membership - Sentence Meaning: set of conditions that have to hold for sentence to be true
- Problem: human establishment of truth conditions for complex sentences doesn't always follow rules of logic

Psychologists & Semantics

- "Loose" truth-conditional semantics
 - Prototypes & Exemplars constitute "truth conditions" for words
- Cognitive Semantics
 - Meaning established with respect to knowledge of prototypes, exemplars, & frames
 - Comprehension involves construction of mental models

Pragmatics

- · Study of meaning in context
- Cooperativeness Principle
 - Speakers and listeners must be cooperative in order for successful communication to occur
- Conversational Maxims
 - Guidelines followed by cooperative speakers

Grice's Conversational Maxims

- Maxim of Quantity
- Make your contribution as informative as required for the current purpose of the exchange
- Do not make your contribution more informative than is required
- · Maxim of Quality Try to make you contribution one that is true
 - Do not say what you believe to be false
 - Do not say that for which
 - you lack relevant evidence

- Maxim of Manner
 - Be perspicuous* · Avoid obscurity of
 - expression
 - Avoid ambiguity · Be brief (avoid
 - unnecessary prolixity) · Be orderly
 - Maxim of Relation Be relevant
- *"perspicuous" means clear and easy to understand







Quantity

· Olson - amount that needs to be said depends on context The boy is a good soccer player. The boy with curly hair is a good soccer player.

Common Ground

- · Mutual suppositions, beliefs, and knowledge Willie bought Tom's old Bug.
 - Dr. Smith bought the orange car parked outside your office.
 - "Consider the stallion."

How do referents enter common ground?

- Physical Co-Presence
- Linguistic Co-Presence
- Cultural Co-Presence

Speech Acts



- Locutionary Force Effect derived from literal meaning
- Illocutionary Force Effect derived from speaker's goal - Promise, insult, inquire
- Perlocutionary Force - Intended or unintended
 - effect of statement Enter contract, sentence prisoner to jail

Five Types of Speech Acts

- Representatives
 - My desk has disappeared.
- Directives
- Stop putting things on my desk.
- Commissives
 - If you put anything else on my desk, I'm throwing it in the trash.
- Expressives
 - I'm happy it's raining today.
- Declarations
 - You're fired!