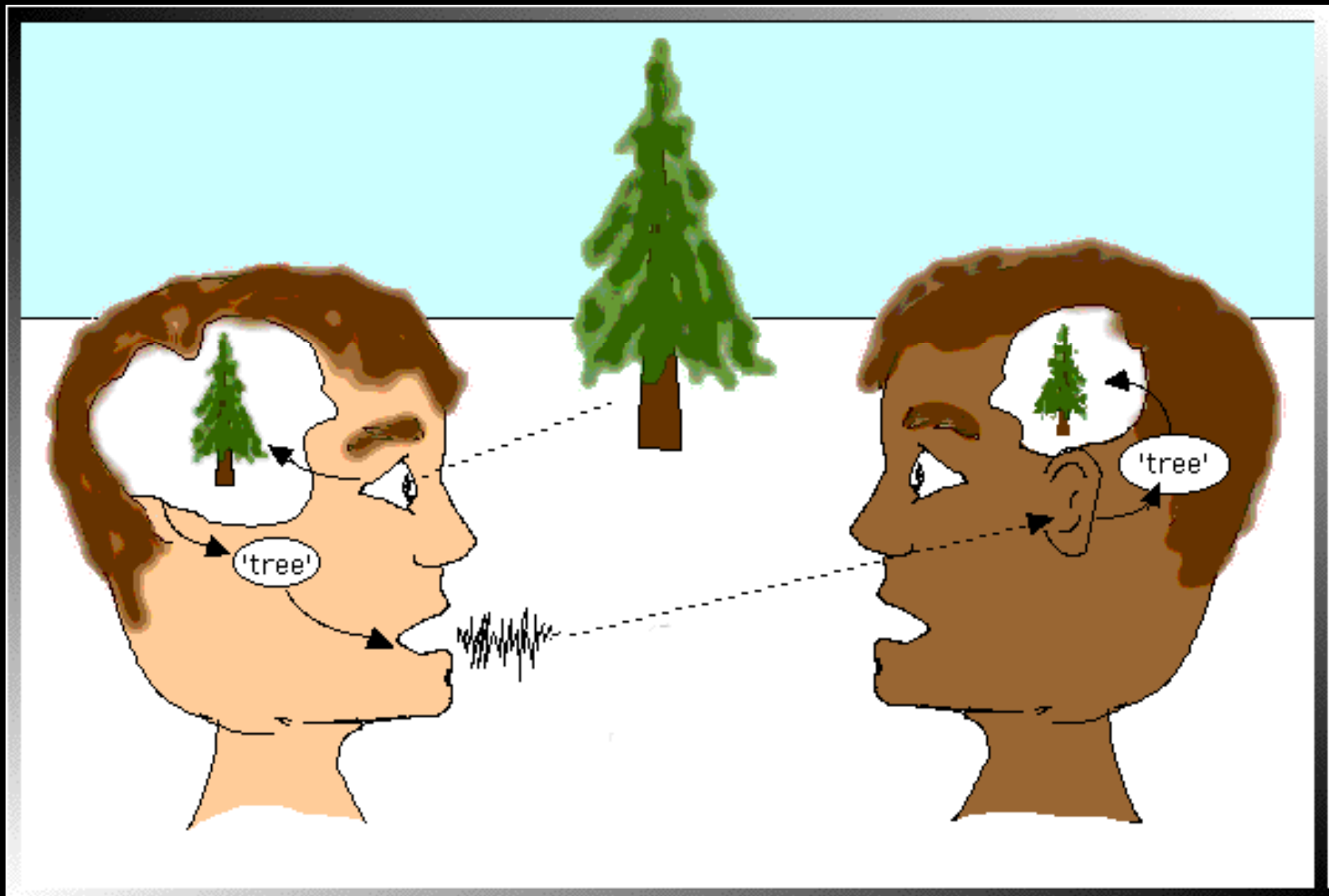


LANGUAGE



Language

- **Language**
 - The use of an organized means of combining words in order to communicate
 - Makes it possible for us to communicate with those around us and to think about things and processes we currently cannot see, hear, feel, touch, smell
- **Communication**
 - Exchange of thoughts and feelings
 - Not all communication is through language (gestures, glances, touches, pictures)

Properties of Language

- Communicative
 - Language permits us to communicate with one or more people who share our language
- Arbitrarily symbolic
 - Language creates an arbitrary relationship between a symbol and its referent: an idea, a process, a relationship, or a description
 - Arbitrary relationship - lack of any reason for choosing a particular symbol to refer to a particular thing

Properties of Language

- Regularly structured
 - Language has a structure; only particularly patterned arrangements of symbols have meaning, and different arrangements yield different meanings
- Structured at multiple levels
 - The structure of language can be analyzed at more than one level (e.g., in sounds, in meaning units, in words, in phrases)

Properties of Language

- Generative, productive
 - Within the limits of a linguistic structure, language users can produce novel utterances, and the possibilities for creating new utterances are virtually limitless
- Dynamic
 - Languages constantly evolve and change

Levels of Analysis

- Phonology: The system of sounds in a language
- Semantics: Examines the meanings of words and sentences
- Syntax: Grammatical rules that govern how we organize words into sentences
- Pragmatics: Knowledge of the social rules that govern language use.



Levels of Analysis

- Phonology
- Phoneme – the smallest unit of speech sound that can be used to distinguish one utterance in a given language from another
 - Different languages use different numbers and combinations of phonemes
 - Phonemics – the study of the particular phonemes of a language
 - Phonetics – the study of to produce or combine speech sounds

Levels of Analysis

- Lexicon

- the entire set of morphemes in a given language or in a given person's linguistic repertoire; contains the information about meaning, phonological form, orthographic form and syntactic properties of a particular word

- Vocabulary – the repertoire of words created by combining morphemes

Levels of Analysis

- Syntax
 - The way in which users of a particular language put words together to form sentences
 - It is the structure of our utterances
 - A sentence comprises at least two parts
 - Noun phrase which contains at least one noun
 - Verb phrase which contains at least one verb and whatever the verb acts on

Level of Analysis

- Semantics
 - The study of meaning in language
 - How words express meaning
 - How language interacts with conceptual structure
- Discourse
 - Encompasses language use at the level beyond the sentence, such as in conversation, paragraphs, stories
 - Studies the interactions between the context and language

Comprehension

- Factors effecting comprehension:
 - Negatives
 - Passive Voice
 - Nested structures
 - Ambiguity

Comprehension

- Negatives:
 - Negatives require more processing time
 - EXP: Star is before plus *+
Star is not after plus *+
 - *Double negation* is very hard to comprehend
 - EXP: Few people strongly deny that the word is not flat

Comprehension

- Passive Voice:
 - Passive voice requires more processing time
 - EXP: The man bit the dog
The dog was bitten by the man

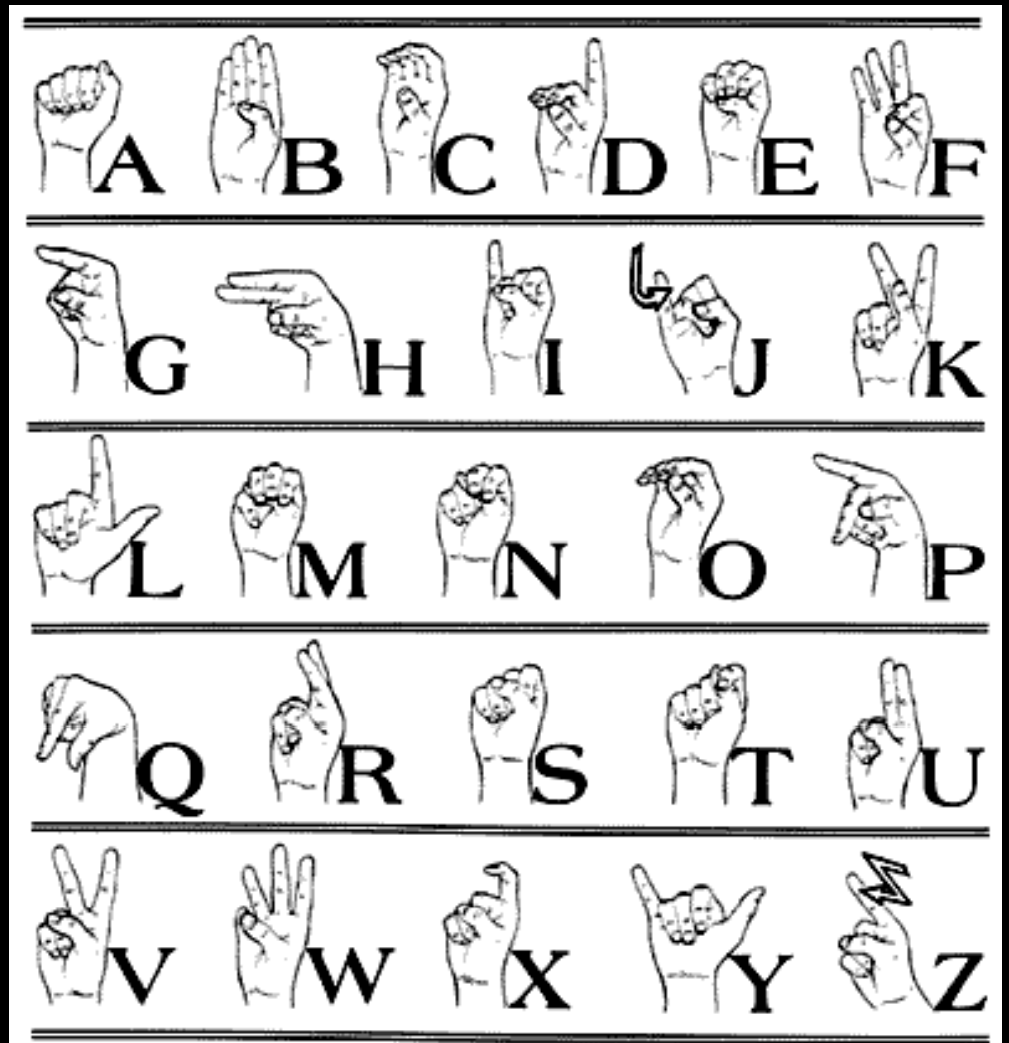
Comprehension

- Nested Structures:
 - A phrase that is embedded within another sentence.
 - EXP: The plane that I want to take when I go to Denver after he returns from Washington leaves at 9.00

Comprehension

- Ambiguity:
- We are good at resolving ambiguities
 - Stolen painting found by tree
 - Clinton wins budget; more lies ahead
 - Miners refuse to work after death
 - Kids make nutritious snacks
 - Local high school dropouts cut in half

LANGUAGE PRODUCTION



Speaking

- Word production
- Sentence production
- Speech errors
- Discourse production
- Social context of speech

Speech Production

- Speech is produced by interrupting airflow as we breathe out
 - place of articulation: tongue, lips, and teeth move to various positions to restrict the airflow
 - manner of production: air flow may be completely or partially stopped, will flow through different cavities (“m” sound flows through the nose)
 - voicing is produced by vibrating the vocal folds (as with the letter “z”)

Word Production

- Most active topic in language research
 - Retrieving grammatical, semantic and phonological information
 - Independent access
 - ERP evidence that we access grammatical information before phonological
 - Simultaneous access
 - Gestures might help us retrieve this information
 - Worse production when gestures were restricted.

Sentence Production

- Certain stages:
 - Mentally planning the *gist*
 - General structure of the sentence
 - Choose words with specific forms
 - Articulate

These processes overlap in time

Sentence Production

- Linearization
 - arranging words in an ordered, linear sequence
- Prosody
 - Melody, intonation and stress pattern of an utterance

Speech Errors

- Slip-of-the-tongue:
 - Sounds or entire words are re-arranged
 - Three types of errors
 - Sound errors
 - Sulu kar → kulu sar
 - Reading list → leading list → reading rist
 - Morpheme errors
 - self-destruct instruction → self-instruct destruction
 - Word errors
 - Writing a letter to my mother → writing a mother to my letter



Speech Errors

- Anticipatory errors are more common
- When we slip
 - we tend to create a word rather than a non-word
 - We tend to create a common pronunciation
 - Errors occur across items from the same category
 - Vowels, prefixes, nouns...

Speech Errors

- Dell et al (1997) Model
 - Spreading activation
 - She sells sea shells on the sea shore
 - Inappropriate phonemes are activated and cause the tongue slip.

Discourse Production

- Narratives:
 - Discourse in which you describe a series of events

Social Context of Speech

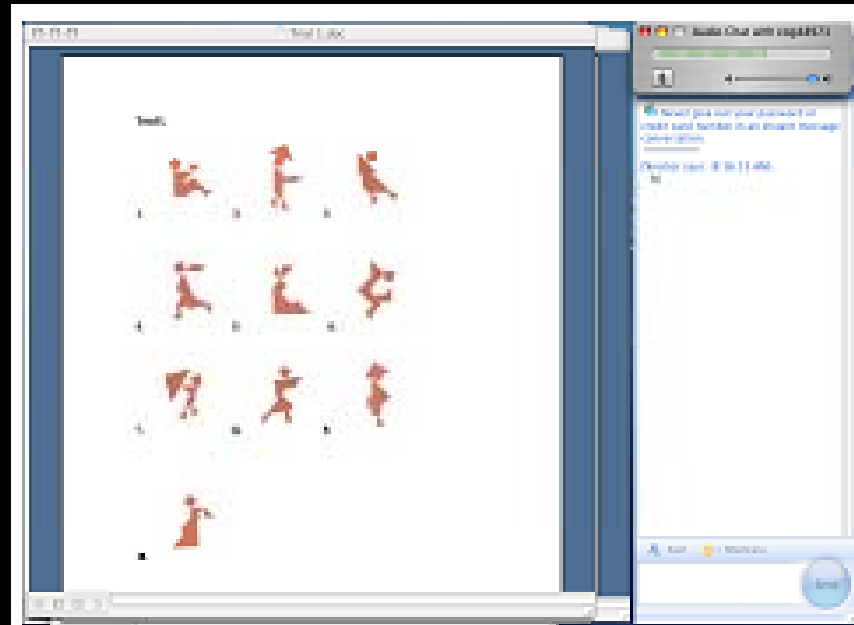
- Pragmatics:
 - The knowledge of social rules that underlie language

Social Context of Speech

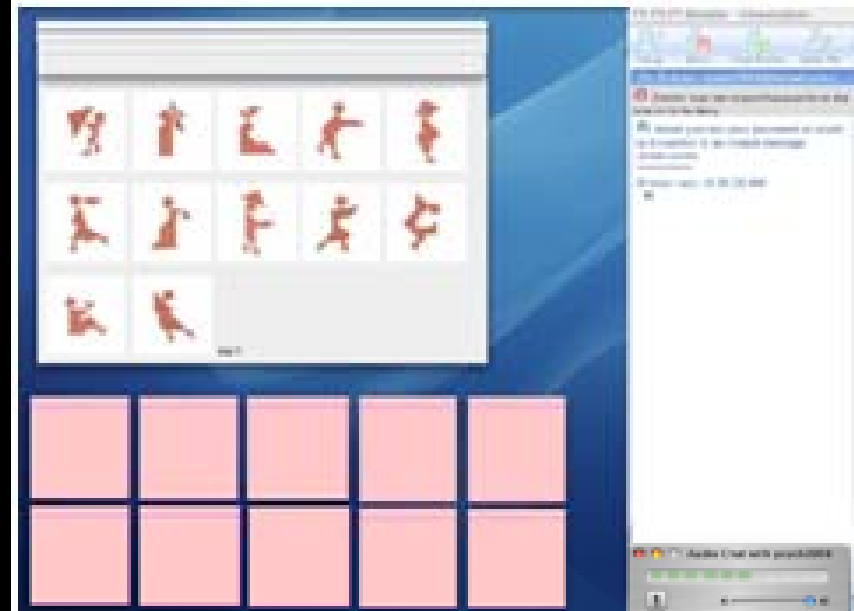
- Common Ground
 - People who are communicating share a similar background knowledge, schemas, experiences that are necessary for mutual understanding
 - Study by Clark et al (1986)

Clark et al (1986)

- Subject 1 tires to communicate subject 2, which figure to choose.
- Becomes more efficient over trials



Director's display.



Matcher's display.

Social Context of Speech

- Lexical Entrainment
 - Specific pattern that two communicators develop and use regarding a certain object or concept.

Subjects, even with different first languages, easily form lexical Entrainments about different kinds of chairs



Speech Acts

- Direct speech acts
 - The speech act is expressed directly (e.g. “Shut the door!”)
- Indirect speech acts
 - We accomplish our goals in speaking in an oblique fashion (e.g. “Could you please shut the door?”)

Speech Acts

- Directives

- A sentence that requests someone to do something.

- EXP: Lend me your car.

- EXP: Could you lend me your car?

- EXP: Could you possibly by any chance lend me your car for just a few minutes please?

- Indirect Directives

- What are you talking about?

- I wish I had a cup of tea.

Speech Acts

- Taxonomy of direct speech acts (Searle, 1975)
 - Representative
 - A speech act by which a person conveys a belief that a given proposition is true
 - E.g. “My students are smart.”
 - Directive
 - An attempt by a speaker to get a listener to do something, such as supplying the answer to question
 - E.g. “Shut the door!”

Speech Acts

- Taxonomy of direct speech acts (Searle, 1975)
 - Commissive
 - A commitment by the speaker to engage in some future course of action
 - E.g. “I’ll be there.”
 - Expressive
 - A statement regarding the speaker’s psychological state
 - E.g. “I’m happy.”

Speech Acts

- Taxonomy of direct speech acts (Searle, 1975)
 - Declaration
 - A speech act by which the very act of making a statement brings about an intended new state of affairs
 - E.g. “I now pronounce you husband and wife”

Conversational Postulates (Grice, 1967)

- The maxim of quantity
 - Make your contribution to a conversation as informative as required but no more informative than is appropriate
- The maxim of quality
 - Your contribution to a conversation should be truthful
 - You are expected to say what you believe to be the case

Conversational Postulates (Grice, 1967)

- The maxim of relation
 - You should make your contributions to a conversation relevant to the aims of the conversation
- The maxim of manner
 - You should try to avoid obscure expressions, vague utterances, and purposeful obfuscation of your point



Viewer

THE END