The structure of language

Sound structure:

phonetics and phonology "cat" = /k/ + /æ/ + /t/"eat" = /i/ + /t/"rough" = /r/ + /E/ + /f/Minimal meaning units: morphemes "cat", "dog", "eat", "go", "-s", "-ing"

The structure of language

Words: cat, cats, eat, eating, eats Sentence structure: syntax The cat is eating the mouse. *mouse cat the is the eating. The dog which the cat scratched ran away. *scratched the which away dog cat the ran.

The structure of language

Discourse structure:

Ok: The cat chased the mouse. Then the cat caught the mouse. Not good: The cat chased the mouse. The Dow Jones fell 200 points today in heavy trading.

Lecture topics

1. Speech processing: processing phonemes (e.g., /k/ and /g/).

- 2. Sentence processing: how words are put together into larger structures.
- 3. Speech processing: Units of sound.

4. Phonemes: The minimal units of sound to distinguish meaning bat vs. pat, cap vs. gap, pat vs. pet vs. pete.

- 5. International phonetic alphabet: IPA
- 6. Two frog context: No looks to the incorrect target (the second napkin).

Sentence processing: Summary

- Multiple factors are involved in sentence processing:
- Syntactic structure: keep dependencies close
- Word frequencies
- Plausibility of the resultant structures
- Context