LNGT0101 Introduction to Linguistics



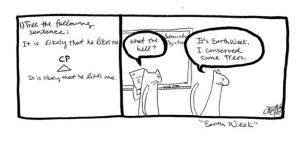
Lecture #12 Oct 20th, 2014

Announcements

- I will return HW2 to you this week.
- Any questions on Homework 3, or otherwise?
- Presentation on Wednesday on Myth 5 "English spelling is kattastroffik."

2

What you must not do on your HW



3

Today's agenda

- An example of a principle of UG. Last issue in syntax, I promise.
- Introduce phonetics.
- Describe consonants and vowels, and introduce their IPA symbols.
- Phonetic transcription.

4

Transition from last class

- Last time we talked about **parameters**, the component of UG responsible for crosslinguistic variation (e.g., head directionality, wh-parameter, and the null subject parameter).
- The second component of UG is **principles**, which are argued to be shared by all languages (e.g., structure-dependence of rules).
- We talk about one example of these universal principles today.

A puzzle from earlier in the semester

Anne hit the man with an umbrella. Two meanings

What did Anne hit the man with? One meaning

Constraints on Wh-movement

 We have already seen examples of wh-movement in English (remember "t" is the trace of the moved whphrase):

Who did John meet t?

 Notice that the distance between the wh-phrase and its original position in the D-structure could be, in principle, unbounded:

Who did you say that John met t?

Who does Mary believe that you said that John met t?

7

Constraints on Wh-movement

- But now consider these cases of wh-movement:
 - *Who did you meet Mary and t?
 - *Who do you believe the claim that Mary met *t*?
 - *Which book did Mary talk to the author who wrote *t*?
 - *Who do you wonder whether Mary met t?
 - *Who did Mary talk to John without meeting t?
- Obviously, wh-movement is not unconstrained. There are cases where the movement is, for some reason, blocked.

3

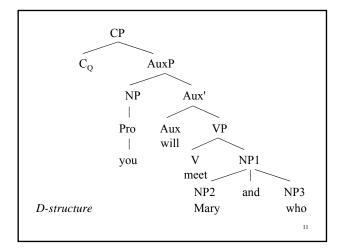
Islands

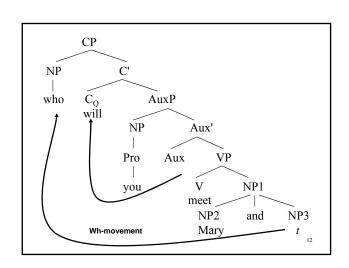
- The substructures out of which wh-movement is blocked are called syntactic *islands*.
- Complex NPs are islands:
 - *Who do you believe [NP the claim [CP that Mary met t]]?
 - *Which book did Mary talk to [NP the author [CP who wrote t]]?

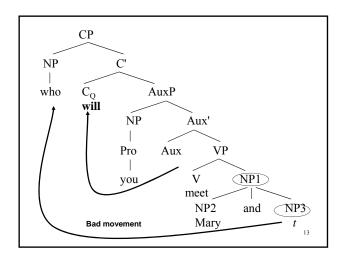
9

Islands

- Also, embedded CPs introduced by a wh-word act as islands for wh-movement:
 - *Who do you wonder [$_{CP}$ whether Mary met t]?
- Adverbial clauses introduced by without, after, before, etc., are also islands:
 - *Who did Mary talk to John [$_{CP}$ without meeting t]?
- Coordinate NPs are also islands;
 - *Who will you meet [NP Mary and t]?
- Let's draw a tree for this last wh-question and see if we can make sense of what's going on.







Islands

- Similar island effects are observed in other languages with wh-movement.
- Island constraints cannot possibly be learned on the basis of the primary linguistic data that the child hears around her.
- If so, then the inevitable conclusion is that they must be built-in.

14

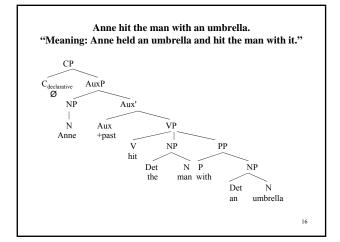
Revisiting the puzzle

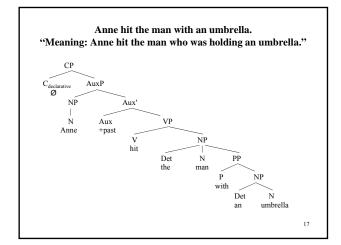
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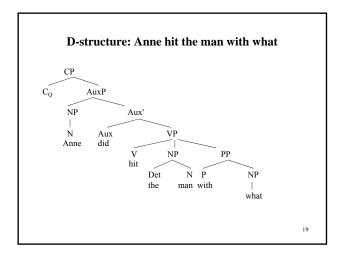
■ That's again where trees help.

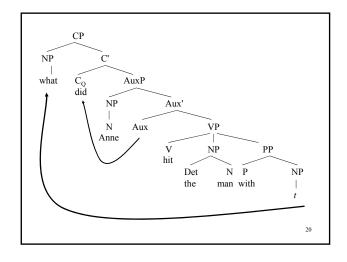
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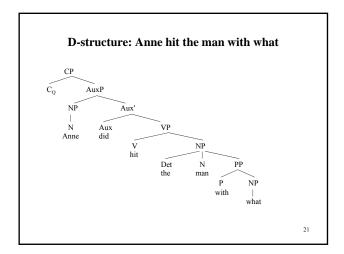


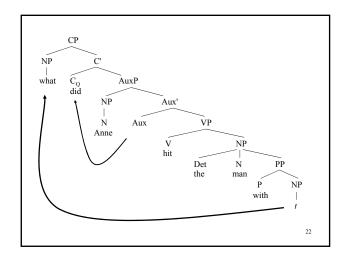


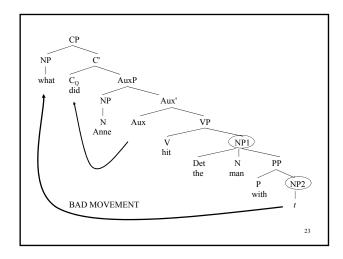
 Now, let's draw trees for a wh-question out of each structure. (Assume 'did' under Aux for the time being, which is not quite accurate, but should do for our purposes here.)











Another puzzle: wanna-contraction

- Who do you want to kiss? Who do you wanna kiss?
- Who do you want to kiss Mary?*Who do you wanna kiss Mary?
- Compare: I want to kiss Mary. I wanna kiss Mary.

Phonetics

- Phonetics is the study of speech sounds in human language.
- In this class we'll be mainly concerned with articulatory phonetics.

25

Phonetics

■ What are some phonetic puzzles you're familiar with from English or from other languages that you know?

26

Spelling and speech

The one-l lama, He's a priest. The two-l llama, He's a beast.

And I will bet A silk pajama There isn't any Three-l lllama.

Ogeden Nash

27

Spelling and speech

- Even though alphabetic spelling is meant to represent the pronunciation of words, it is not always reliable in figuring out how a word is pronounced. Why?
- Different letters may represent the same sound: to too two through threw clue shoe

28

Spelling and speech

- A single letter may represent different sounds:
 dame dad father call village many.
- A combination of letters may represent a single sound:

ship chrome phonetics

Some letters have no sound at all in certain words:

know numb sword

29

Spelling and speech

Spelling may also fail to represent sounds that are actually pronounced:

futility university

- Also, one letter may represent two sounds: box Xerox
- Also, the majority of human languages do not have a writing system, which makes spelling completely irrelevant for pronunciation in these languages.

Introducing the IPA

- If we cannot rely on spelling, then what do we do?
- Linguists rely on a special alphabet to represent speech sounds in human language:
 The *International Phonetic Alphabet* (IPA).
- The IPA represents speech in the form of symbols for individual sounds like [p], [s], [a], etc., as well as for other phonetic features that arise in human speech.

31

Some IPA links

- Link to the IPA chart.
- <u>Link to an interactive chart to insert symbols</u>.
 This will be quite useful when we do phonetic transcription exercises.
- Interactive IPA from Peter Ladefoged's online <u>Course in Phonetics</u>: Click and listen to different sounds.

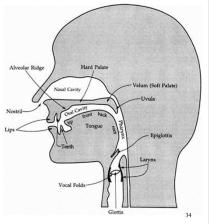
32

Consonants vs. Vowels

- There are two major types of sounds in human language: consonants and vowels. How do they differ?
- In terms of articulation, consonants are produced when the airflow is obstructed in the vocal tract, while vowels are produced with relative free flow of the airstream in the vocal tract.
- Both consonants and vowels can be described in terms of a number of individual articulatory features.
- We start with consonants. But let's look at the human vocal tract first.

3.

The vocal tract



Articulation of consonants

- Consonant sounds can be characterized according to three main phonetic properties:
 - a) place of articulation,
 - b) manner of articulation, and
 - c) voicing.

35

Places of articulation

- Labial, e.g., bilabial [p] and labiodental [f].
- Dental, e.g., French [d] in dire. English has interdental [θ] as in thorn and [ð] as in there.
- **Alveolar**, e.g., [t], [s], [n], and [1].
- Alveopalatal, e.g., [∫] as in *shoe*, [ʒ] as in *vision*, [t∫] as in *choose*, and [dʒ] as in *jam*.
- Palatal, e.g., [j] in yes.

Places of articulation

- Velar, e.g., [k], [g], and [ŋ], the last one is the final sound in *king*.
- **Uvular** consonants: These are produced by raising the back of the tongue to the uvula, e.g., French [R] and Arabic [q].
- **Pharyngeal** consonants: These are produced at the pharynx, e.g., Arabic [ħ] and [ʕ].
- **Glottal** consonants: These are produced at the glottis, e.g., [h] in *hill* and [?] in *uh-oh*.

37

Next class agenda

- Finish our discussion of consonants.
- Vowels.
- Phonetic transcription.
- Syllable structure.