CAS LX 422 / GRS LX 722 Intermediate Syntax

Constituents (3.1 - 3.4)

Constituency tests

Replacement test Fragment test Ellipsis Clefting

Movement test

Replacement test

A constituent is a group of words which function as a unit. If you can replace part of the sentence with another constituent (the smallest constituent being a single word), this tells us that the replaced section of the sentence is a constituent.

This isn't foolproof, but it usually works if you try to keep the meaning as close as possible.

Replacement test

- The students left.
- 2) They left.

The students is a constituent.

- The students will eat the sandwiches.
- They will eat the sandwiches.
- The students will eat **them**.
- The students will **dine**.
- [The students] will [eat [the sandwiches]].

Sentence fragment test Generally, only constituents can be used in the fragmentary response to a question. • Who will eat the sandwiches? The students. *Students will eat the. and then.. • What will the students do? The students will. Eat the sandwiches. *Eat the. • What will the students eat? and then... The sandwiches. [The students] will [eat [the sandwiches]].

Ellipsis test

If you can elide a string, it qualifies as a constituent.

Ellipsis is really deletion of a string from a sentence. Sometimes this is "repaired" by using the verb do, something which we will seek to explain at a later point.

The professors will eat the sandwiches,

The students will eat the cookies,

*The professors will sandwiches.

WARNING: Passing a constituency test constitutes evidence for a constituent. Failing a constituency test tells you little—there may be other reasons for the ungrammaticality.

Movement (topicalization)

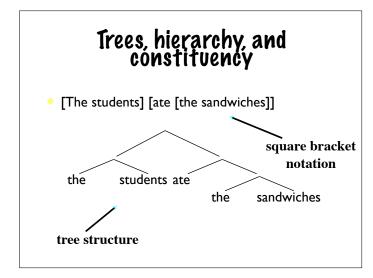
Sometimes you can "move" a string of words to the front of a sentence (then generally interpreted as the topic of the sentence). When you can, you've found a constituent.

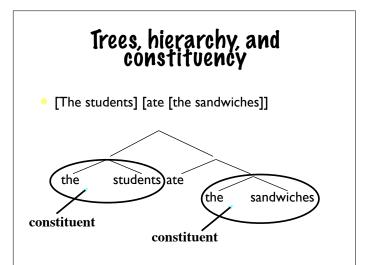
- The sandwiches, the students will eat _.
- Eat the sandwiches, the students will _.
- The students, they will eat the sandwiches.
- *Students will, the eat the sandwiches.
- *Students, the will eat the sandwiches
 - Failing a constituency test isn't evidence against constituency!

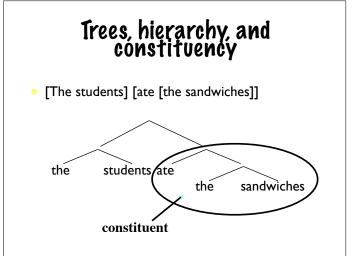
Clefting test

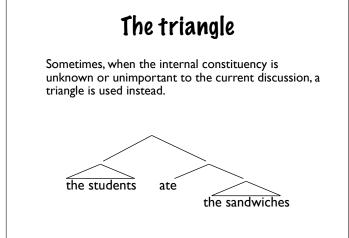
Like the movement test, if you can fit your string into the frame *it be* X *that* S (where you move the string X from inside S), X is a constituent.

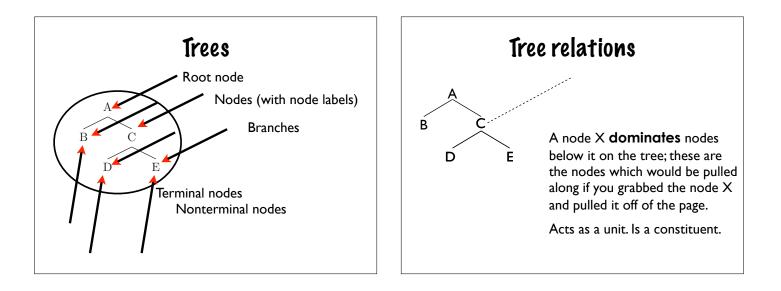
- It's the sandwiches that the students will eat _.
- It's the students that _ will eat the sandwiches.
- It's eat the sandwiches that the students will (do) _.
- *It's students eat that the _ will the sandwiches.
- *It's eat the that the students will _ sandwiches.

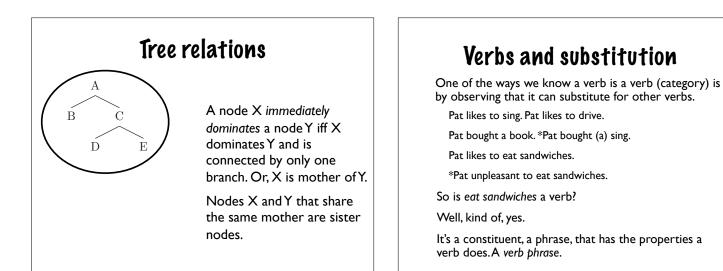












The making of a phrase

We're trying to characterize our knowledge of syntactic structure.

Our grammatical knowledge is a system (we can judge new sentences).

All things being equal, a theory in which the system is simpler (needed fewer assumptions) is to be preferred over a theory that entails more complex one.

The making of a phrase

In that spirit, we know that a phrase differs from a word in that it *contains* words (or other phrases).

- We've seen that when words are combined into a phrase, the phrase inherits the properties of one of the things we combined. (The phrase has a head).
- Suppose: a phrase can arise from merging two words together, with one taking priority. In a way, attaching one word to another.

The making of a phrase

What will Pat do?

- sing
- eat sandwiches

What does Pat like?

- to eat sandwiches
- to sing
- [to [eat sandwiches]]

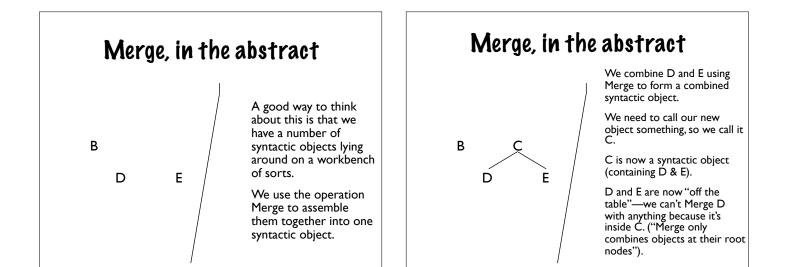
So, a phrase can also arise from combining to and a verb phrase, to make a bigger phrase.

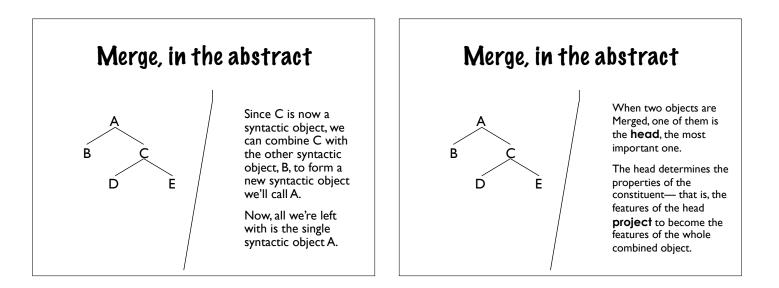
Merge

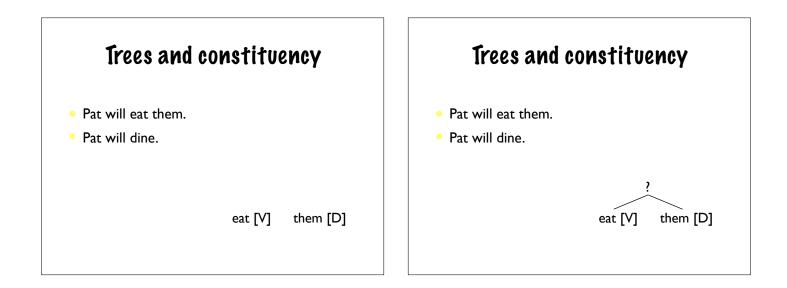
So, let's go for the simplest theory of structure we can (and only move away from it if the simplest theory won't work)

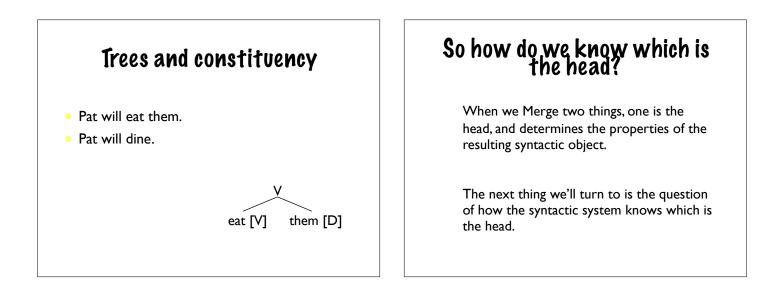
A phrase is a syntactic object formed by combining (*merging*) two syntactic objects, with the properties inherited from one of them (the *head* of the phrase).

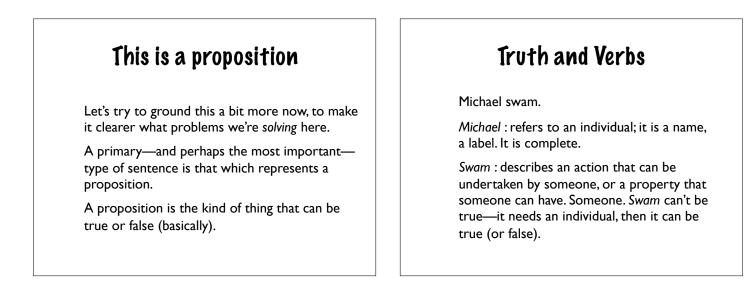
A word is a syntactic object.











Predicates and arguments

Suppose the construction of a proposition to be the end result of a (common kind of) sentence construction.

) Michael swam

Swam needs an individual to be true or false. Fortunately, *Michael* is an individual. So, combining *swam* (predicate) and *Michael* (argument) gives us a proposition, that can be true or false.

Verbs and participants

Intransitive (1-place): Sleep

Bill slept.

*Bill slept the book.

Transitive (2-place): *Hit*

*Bill hit.

Bill hit the pillow.

Ditransitive (3-place): Put

*Bill put.

*Bill put the book.

Bill put the book on the table.

Weather (0-place): Rain

lt rained.

Verbs and arguments

The "participants" in an event denoted by the verb are the arguments of that verb.

Some verbs require one argument, some require two arguments, some require three arguments, some require none.

Intuitively, the number of arguments is the number of things that a verb needs in order to make a proposition (something that can be either true or false).

Predicates

We will call verbs the predicates. They define properties of and/or relations between the arguments.

Bill hit the ball

There was a hitting, Bill did the hitting, the ball was affected by the hitting.

Different arguments have different roles in the event. (e.g., The hitter, the hittee)