Psych156A/Ling150: Psychology of Language Learning

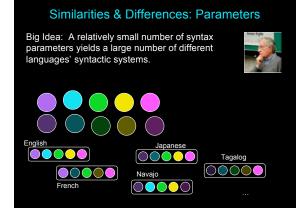
Lecture 18 Language Structure II

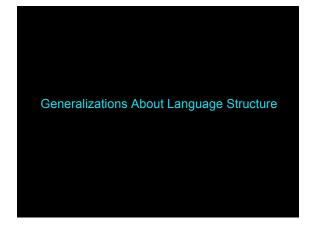
Announcements

HW6 due today

Quiz 6 results: Average 17.5 out of 21 (yay!)

Reminder: Email me (<u>lpearl@uci.edu</u>) by the end of today if you will be writing a paper for your final assignment. Note: No late papers will be accepted - so make sure you get it in on time.





Navajo	Japanese

Greenberg's Word Order Generalizations

Navajo

Basic word order: Subject Object Verb

Ashkii <mark>at'ééd</mark> yiyiiltsá Boy girl saw

The boy saw the girl

Japanese Basic word order: Subject Object Verb

Jareth-ga Hoggle-o butta Jareth Hoggle hit

Jareth hit Hoggle

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Navajo

Postpositions: Noun Phrase Postposition

'éé' biih náásdzá clothing into l-got-back l got back into (my) clothes. Postpositions: Noun Phrase Postposition

Japanese

Jareth-ga Sarah to kuruma Jareth Sarah with car

da London ni itta by London to went

Jareth went to London with Sarah by car.

Greenberg's Word Order Generalizations

Navajo	Japanese
Possessor before Possessed	Possessor before Possessed
Possessor Possession	Possessor Possession
Chidí bi-jáád Car its-leg	Toby-no imooto-ga Toby's sister
the wheel of a car	Toby's sister

Greenberg's Word Order Generalizations

Navajo

Japanese Basic word order:

Basic word order: Subject Object Verb Postpositions: Noun Phrase Postposition

Possessor before Possessed Possessor Possession Subject Object Verb Postpositions: Noun Phrase Postposition

Possessor before Possessed Possessor Possession

Despite the differences in the languages, both Japanese and Navajo are very similar when viewed through these three structural descriptions.

Greenberg's Wor	Greenberg's Word Order Generalizations		
English	Edo (Nigeria)		

English

Edo (Nigeria)

Basic word order: Subject Verb Object Basic word order:

Subject Verb Object

Sarah found Toby.

Òzó mién Adésuwá Ozo found Adesuwa.

Greenberg's Word Order Generalizations

English

Edo (Nigeria)

Prepositions: Preposition Noun Phrase

Prepositions: Preposition Noun Phrase

Jareth gave the crystal to Sarah.

Òzó rhié néné ebé né Adésuwá Ozo gave the book to Adesuwa.

Greenberg's Word	Order	Generalizations
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English	Edo (Nigeria)
Possessed before Possessor	Possessed before Possessor
Possession Possessor	Possession Possessor
quest of Sarah	Omo Ozó child Ozo
(alternative: Sarah's quest)	Ozo's child

English

Basic word order: Subject Verb Object

Prepositions:

Edo (Nigeria) Basic word order:

Subject Verb Object Prepositions: Preposition Noun Phrase

Preposition Noun Phrase Possessed before Possessor

Possession Possessor

Possessed before Possessor Possession Possessor

Again, despite the differences in the languages, both English and Edo are very similar when viewed through these three structural descriptions.

Greenberg's Word Order Generalizations

Greenberg found forty-five "universals" of languages - patterns overwhelmingly followed by languages with unshared history (Navajo & Japanese, English & Edo)

Not all combinations are possible - some patterns rarely appear Ex: Subject Verb Object language (English/Edo-like) + postpositions (Navajo/Japanese-like)

Moral: Languages may be more similar than they first appear "on the surface", especially if we consider their structural properties.

More Language Comparisons

French Subject Verb Jareth arrivera. Jareth will-come. Italian Subject Verb Jareth verrá. Jareth will-come.

More Language Comparisons

Italian

*Verb Subject *Arrivera Jareth. *Will-arrive Jareth.

French

Verb Subject Verrá Jareth. Will-arrive Jareth.

More Language Comparisons

French

*Arrivera He-will-come

*Verb

Italian Verb Verrá He-will-come

More Language Comparisons

French Subject Verb *Verb Subject

*Verb

Subject Verb Verb Subject Verb

Italian

These word order patterns might be fairly easy to notice. They involve which combinations of Subject and Verb are allowed to exist in the language. A child might be able to notice the prevalence of some patterns and the absence of others.

More Language Comparisons

French Italian Embedded Subject-question formation (easy to miss)

Tu veux que Marie épouse J. You want that Marie marries J. "You want Marie to marry J."

*Qui veux-tu que ______épouse J? Que veux-tu qui ______épouse J? Who want-you that marries J? "Who do you want to marry J?"

Requires a special "that" form: qui.

More Language Comparisons

French

Italian

Embedded Subject-question formation (easy to miss)

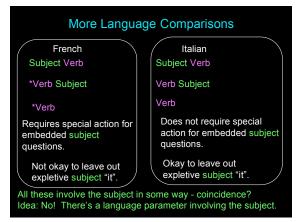
Credi che Jareth verrá. You think that Jareth will-come. "You think that Jareth will come."

Che credi che verrá? Who think-you that will-come? "Who do you think will come?"

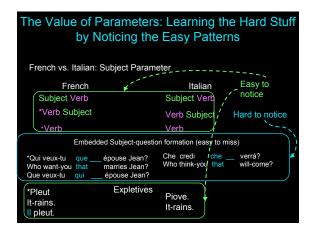
Does not require a special "that" form.

More Language Comparisons

French	Italian		
Expletive subjects: w	Expletive subjects: words without content		
*Pleut	Piove.		
It-rains.	It-rains.		
II pleut.	"It's raining."		
It rains.			
"It's raining."			
Not okay to leave out	Okay to leave out expletive subject "it".		







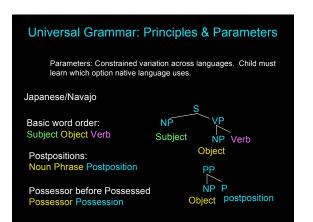


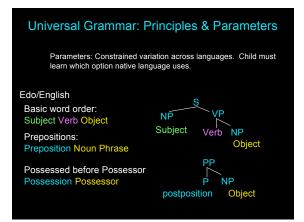
The Value of Parameters: Learning the Hard Stuff by Noticing the Easy Patterns

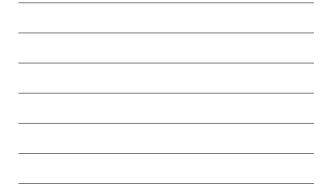
French vs. Italian: Subject Parameter

Big idea: If all these structural patterns are generated from the same linguistic parameter (e.g. a "subject" parameter), then children can learn the hard-to-notice patterns (like the patterns of embedded subject questions) by being exposed to the easy-to-notice patterns (like the optional use of subjects with verbs). The hard-to-notice patterns are generated by one setting of the parameter, which children can learn from the easy-to-notice patterns.

Universal Grammar: Principles & Parameters Principles: Apply to all human languages. Ex: Language has hierarchical structure. Smaller units are chunked into larger units. sounds gab lın goblin words Noun Phrase (NP) Verb Phrase (VP) phrases The sneaky goblin stole the baby .5 sentences NF stole the baby The sneaky goblin

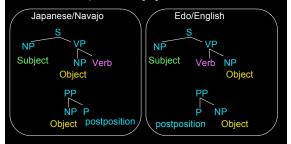






Universal Grammar: Principles & Parameters

Parameters: Constrained variation across languages. Child must learn which option native language uses.



Language Variation: Summary

- While languages may differ on many levels, they have many similarities at the level of language structure (syntax). Even languages with no shared history seem to share similar structural patterns.
- One way for children to learn the complex structures of their language is to have them already be aware of the ways in which human languages can vary. Then, they listen to their native language data to decide which patterns their native language follows.
- Languages can be thought to vary structurally on a number of linguistic parameters. One purpose of parameters is to explain how children learn some hard-to-notice structural properties.

