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.

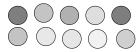
Note: No late papers will be accepted - so

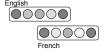
make sure you get it in on time.

Similarities & Differences: Parameters

Big Idea: A relatively small number of syntax parameters yields a large number of different languages' syntactic systems.









Tagalog
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Generalizations About Language Structure	
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Greenberg's Word Order Generalizations	
Navajo Japanese	
Greenberg's Word Order Generalizations	
Navajo Japanese	
Basic word order: Basic word order: Subject Object Verb	
Ashkii at'ééd yiyiiltsá Jareth-ga Hoggle-o butta	
Boy girl saw Jareth Hoggle hit	
The boy saw the girl Jareth hit Hoggle	

Greenberg's Word Order Generalizations Japanese Postpositions: Postpositions: Noun Phrase Postposition Noun Phrase Postposition 'éé' biih náásdzá Jareth-ga Sarah to kuruma clothing into I-got-back I got back into (my) clothes. 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 Toby-no imooto-ga Car its-leg Toby's sister the wheel of a car Toby's sister Greenberg's Word Order Generalizations Japanese Basic word order: Basic word order: Subject Object Verb Subject Object Verb Postpositions: Postpositions: Noun Phrase Postposition Noun Phrase Postposition Possessor before Possessed Possessor before Possessed Possessor Possession Possessor Possession Despite the differences in the languages, both Japanese and Navajo are very similar when viewed through these three structural descriptions.

Greenberg's Word Order Generalizations	
English Edo (Nigeria)	
Greenberg's Word Order Generalizations	
English Edo (Nigeria)	
Basic word order: Basic word order: Subject Verb Object Subject Verb Object	
Sarah found Toby. Özó mién Adésuwá	
Ozo found Adesuwa.	
Greenberg's Word Order Generalizations	
English Edo (Nigeria)	
Prepositions: Prepositions:	
Preposition Noun Phrase Preposition Noun Phrase	
Jareth gave the crystal to Özó rhié néné ebé né Adésuw Sarah. Ozo gave the book to Adesuw	á ————————————————————————————————————

Greenberg's Word O	order Generalizations	
English	Edo (Nigeria)	
Possessed before Possessor	Possessed before Possessor	
Possession Possessor	Possession Possessor	
quest of Sarah	Omo Ozó	
(alternative: Sarah's quest)	child Ozo	
	Ozo's child	
Greenberg's Word O	order Generalizations	
English	Edo (Nigeria)	
Basic word order: Subject Verb Object	Basic word order: Subject Verb Object	
Prepositions:	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 sim these three structural descript		
Greenberg's Word O	order Generalizations	
Greenberg found forty-five "univ	versals" of languages - patterns	
overwhelmingly followed by lan (Navajo & Japanese, English &	guages with unshared history	
, s.e.j. :: : : : : : : : : : : : : : : : : :		
	ole - some patterns rarely appear	
Ex: Subject Verb Object language (English/Edo-like) + postpositions (Navajo/Japanese-like)		
Marsh Language Control	a similar than the Contract	
Moral: Languages may be more "on the surface", especially if w	e sımılar than they first appear e consider their structural	
properties.		

More Language Comparisons Italian French Subject Verb Jareth arrivera. Jareth will-come. Subject Verb Jareth verrá. Jareth will-come. More Language Comparisons French Italian Verb Subject Verrá Jareth. Will-arrive Jareth. *Verb Subject *Arrivera Jareth. *Will-arrive Jareth. More Language Comparisons French Italian *Verb Verb *Arrivera Verrá He-will-come He-will-come

More Language Comparisons Italian French Subject Verb Subject Verb *Verb Subject Verb Subject *Verb Verb 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 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 werrá? Who think-you that will-come? Che credi "Who do you think will come?" Does not require a special "that" form.

More Language Comparisons

French Italian
Expletive subjects: words without content

*Pleut Piove.
It-rains. It-rains.
"It's raining."

II pleut. It rains. "It's raining."

Not okay to leave out expletive subject "it".

Okay to leave out expletive subject "it".

More Language Comparisons

French Subject Verb

*Verb Subject

*Verb

II pleut.

Requires special action for embedded subject questions.

Not okay to leave out expletive subject "it".

Italian
Subject Verb

Verb Subject

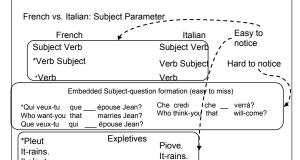
Verb

Does not require special action for embedded subject questions.

Okay to leave out expletive subject "it".

All these involve the subject in some way - coincidence? Idea: No! There's a language parameter involving the subject.

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



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 g a b l ı ı ı syllables g a b l ı n

syllables g a b l ı n words goblin

words goblin

phrases

Noun Phrase (NP) Verb Phrase (VP)
The sneaky goblin stole the baby

sentences NP VP NP NP Stole the baby

Universal Grammar: Principles & Parameters

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

Japanese/Navajo

Basic word order: Subject Object Verb NP VP Subject NP Verb Object

Postpositions: Noun Phrase Postposition

Possessor before Possessed Possessor Possession

PP NP P Object postposition

Universal Grammar: Principles & Parameters

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

Edo/English

Basic word order: Subject Verb Object

Prepositions:

Preposition Noun Phrase

Possessed before Possessor Possession Possessor NP VP Subject Verb NP Object

P NP postposition Object

Universal Grammar: Principles & Parameters

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

Edo/English

S
NP
VP
Subject Verb NP
Object

PP P NP postposition Object

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.

Questions?	