SLA and Linguistics

SLA draws on work in three related fields

- Linguistics
 - A focus on the product of learning a second language
- Psychology
 - A focus on the process of learning a second language
- Sociolinguistics
 - A focus on the social context in which a second language is learned

Innate Linguistic Knowledge

- General nativism Grammatical nativism
- Typological universals
- Universal Grammar

SLA and Linguistics

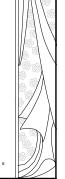
- Linguistic theories attempt to answer two fundamental questions:
- 1. Why are human languages structured in the way that they are?
- 2. How do you explain the acquisition of human languages?

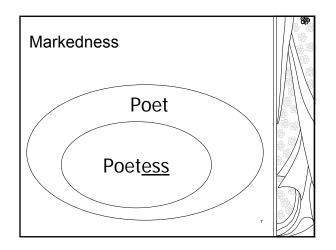
SLA and Linguistics

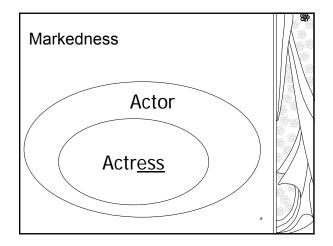
- Underlying the Interlanguage Hypothesis is the idea that IL is a natural language. Therefore it is subject to the same constraints as natural languages.
- Universal constraints on natural languages are construed as typological (Chapter 6) or Universal Grammar (Chapter 7).

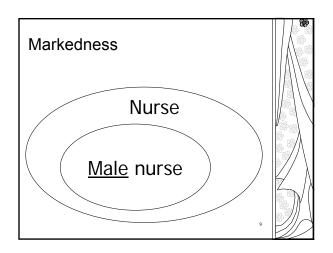
Typological Universals

- Markedness
 - An asymmetrical relationship between two propositions
 - If the marked proposition is true, then the unmarked proposition is also true.
 - But if the unmarked proposition is true, nothing follows about the truth of the marked proposition.









Identify the markedness
relationships between these
propositions

1. Leah is a poetess. / Leah is a poet.

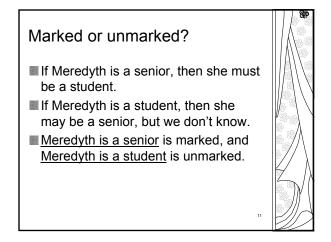
2. Hilary is a student. / Hilary is a junior.

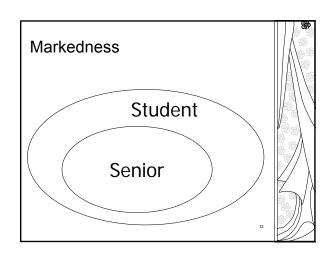
3. Jason lives in Madison. / Jason lives in Wisconsin.

4. Leandro speaks Portuguese. / Leandro loves hot food.

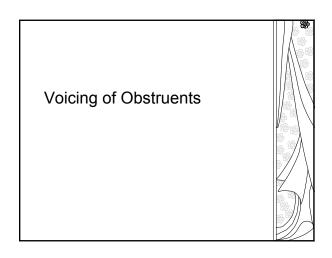
5. Makiko takes the bus to school. / Makiko doesn't walk to school.

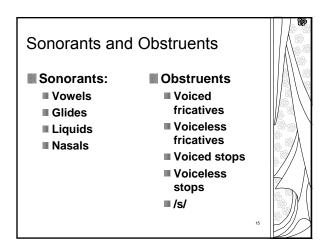
6. Richard went to Germany in September. / Richard changed planes at Amsterdam on his way to Germany.

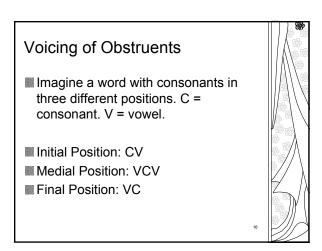


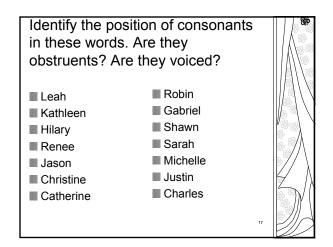


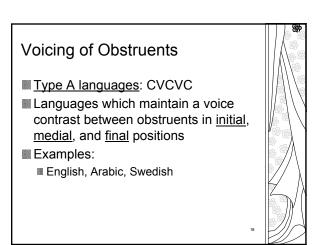
Typological Universals 1. Voicing of Obstruents 2. The Noun Phrase Accessibility Hierarchy











Voicing of Obstruents

- Type B languages: CVCVC
- Languages that maintain a voice contrast between obstruents in <u>initial</u> and <u>medial</u> positions but *not* in <u>final</u> position
- Examples:
 - German, Polish, Greek, Japanese, Catalan

Voicing of Obstruents

- Type C languages: CVCVC
- Languages that maintain a voice contrast between obstruents in <u>initial</u> position, but not in <u>medial</u> or <u>final</u> positions.
- **Examples**:
 - Corsican, Sardinian

20

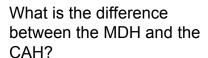


- Type D languages: CVCVC
- Languages that maintain no voice contrasts in <u>initial</u>, <u>medial</u> or <u>final</u> positions
- Example:
 - Korean

Markedness Differential Hypothesis

- L2 difficulty can be predicted on the basis of the markedness relationships that hold among the differences between the NL and TI
- Those structures in the TL that are different and more marked than the corresponding structures in the NL will be difficult:
 - The degree of difficulty corresponds directly to the degree of markedness.
- Those structures that are different, but not more marked than the corresponding NL structures will not be more difficult.

22



The Markedness Differential Hypothesis

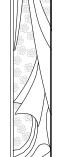
and

The Contrastive Analysis Hypothesis

Predictions of the MDH

- Voiced obstruent ⊃ Voiceless obstruent
- Markedness hierarchy of voicing contrasts
- Final ⊃ Medial ⊃ Initial ⊃ None
- What predictions can be made about the relative learning difficulties for voiced obstruents?
 - NSs of English learning German
 - NSs of German learning English

24

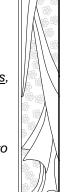


Find the word-final voiced obstruents in English

Please call Stella. Ask her to bring these things with her from the store: Six spoons of fresh snow peas, five thick slabs of blue cheese, and maybe a snack for her brother Bob. We also need a small plastic snake and a big toy frog for the kids. She can scoop these things into three red bags, and we will go meet her Wednesday at the train station.

Here are the word-final voiced obstruents in English

■ Please call Stella. Ask her to bring these things with her from the store: Six spoons of fresh snow peas, five thick slabs of blue cheese, and maybe a snack for her brother Bob. We also need a small plastic snake and a big toy frog for the kids. She can scoop these things into three red bags, and we will go meet her Wednesday at the train station.

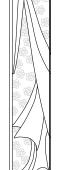


German L1 - English L2 4

[plis kɔl stɛlɜ æsk hɜ thǔ buŋ ŏiṣ ðiŋẓ við hiɜ faom ŏə stœr siks spūns af fæʃ sno phis fauf ðikð am slæps af blu tʃiẓ æn meibi ĕ snæk for hə braðə bab vi alzo nid ə şmal plæstik snæk æn ə bik thɔi faok for ŏə kiḍs vi khēn skup dɪs ðiŋẓ mthǔ ðai æt bægẓ æn mi wil go mit hɜ wɛnsder æt ŏə trēn ste[in]

Phonetic Alternations & Underlying Forms of Final Consonants

- For these subjects (Spanish L1 and Mandarin Chinese L1), describe the phonetic alternations in these data.
- 2. What are the underlying forms that you would posit to account for these data?
- Provide an interlanguage generalization to account for the data for each of these subjects



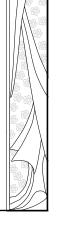
Phonetic Alternations & Underlying Forms of Final Consonants

[pļis kol esteļa æks het tu brīŋ dis θĩŋs wiθ het frām de stot siks espūns of fæ∫ esno pis faif θik eslæf of blu t∫is ām mebi e snæk fot het broŏet bap wi also nid ē smol pļæstik ēsnek æn a bik tot frak fot da kis ∫i kæn eskup öis

θίηs intu tri ret bæks æn wi wil qo

mit hea wezde æde taen estefen 1

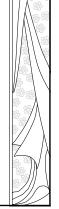
L1 Spanish (from Venezuela)



Phonetic Alternations & Underlying Forms of Final Consonants

■ L1 Mandarin Chinese (from Beijing)

[pli:s kɔl² stela as xə tu bun dis sinz viz hə fx²nm stɔ:x siks spʰxunz əspʰū:nz əvə fæʃ snou pis faiv stik slæ:ps əvə blu tʃi:s ænə mebi e snæk fə xəx binðə bə:b vi əl² sou nidə sməl² plæstix sneik ænd a biyə təi fiə:g fə də ki:s ʃi kën skru: dis sins intu sil lati bæ:gs ena vi vil go mit² xə vensde: ætə trein ster[ən]



The Noun Phrase Accessibility Hierarchy

The NP Accessibility Hierarchy

- $\blacksquare \mathsf{OComp} \supset \mathsf{Gen} \supset \mathsf{OPrep} \supset \mathsf{IO} \supset \mathsf{DO} \supset \mathsf{SU}$
- English can relativize all positions in the hierarchy
 - SU [That's the man [who ran away].]
 - DO [That's the man [I saw yesterday].]
 - IO [That's the man [to whom I gave the letter].]
 - OPrep [That's the man [I was talking about].]
 - Genitive [That's the man [whose sister I know].]
 - OComp [That's the man [I am taller than].]

32

Hierarchy of Pronominal Reflexes

- Inverse hierarchy of pronominal reflexes: SU ⊃ DO ⊃ IO ⊃ OPrep ⊃ Gen ⊃ OComp
- For example, if a language has pronominal reflexes in OPrep relatives, e.g. "That's the man I was talking about *him*", it will also have pronominal reflexes in genitive and object of comparison relative clauses.



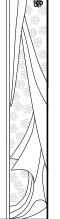
Find the relative clauses in these sentences

- 1. The girl who came late is my sister.
- 2. The girl Kate saw is my sister.
- 3. The girl who I wrote a letter to is my sister.
- 4. The girl who I sat next to is my sister.
- 5. The girl whose father died told me she was sad.
- 6. The girl who Kate is smarter than is my sister.

,

Here are the relative clauses

- 1. The girl [who came late] is my sister.
- 2. The girl [Kate saw] is my sister.
- 3. The girl [who I wrote a letter to] is my sister.
- 4. The girl [who I sat next to] is my sister.
- 5. The girl [whose father died] told me she was sad.
- 6. The girl [who Kate is smarter than] is my sister.



What is the syntactic function of the relative pronouns?

- 7. The dog that Zeke barks louder than lives across the pond.
- 8. The dog that barked belongs to my neighbor.
- 9. The dog that I gave a bone to wagged its tail.
- 10. The dog Lisa saw must have been a stray.
- 11. The dog whose owner put up the sign was found yesterday.
- 12. The dog that I ran over was killed instantly.

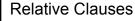






The syntactic function of relative pronouns

- 7. The dog [that Zeke barks louder than] lives across the pond. OComp
- The dog [that barked] belongs to my neighbor. SU
- 9. The dog [that I gave a bone to] wagged its tail.
- 10. The dog [Lisa saw] must have been a stray. DO
- 11. The dog [whose owner put up the sign] was found yesterday. GEN
- 12. The dog [that I tried to talk to] growled at me. OPrep



Identify the relative clauses in the following languages. On the basis of the NPAH, what predictions can you make about other kinds of relative clauses in the same language?

- English: The guy who you were walking faster than took a short cut to get here before you.
- 14. Hindi: Which boy dog hit he my brother is (*The boy who hit the dog is my brother*)



Relative Clauses

English does not have pronominal reflexes, but many languages do. Insert pronominal reflexes in these sentences.

- 15. That's the anorak that needs repair.
- 16. They'll bring down the woman who we arrested yesterday.
- She's the lady we sent the slippers to at Christmas.
- 18. That's the hill that I have to walk up every day.
- 19. The child whose arm he held was not his son.
- 20. Those are the eyes that the face seems older than

Pronominal reflexes

- 15. That's the anorak [that it needs repair].
- 16. They'll bring down the woman [who we arrested her yesterday].
- 17. She's the lady [we sent the slippers to her] at Christmas.
- That's the hill [that I have to walk up it] every day.
- 19. The child [whose its arm he held] was not his son.
- 20. Those are the eyes [that the face seems older than them].





Gass (1979)'s Research Question

- How to explain relative clause formation in English interlanguage?
 - Transfer from learners' native language

■ or

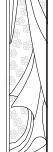
Language universals that are independent of learners' native language



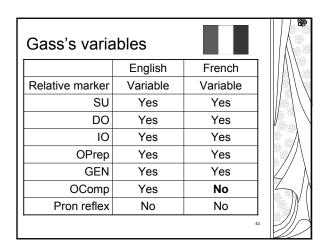
Gass's subjects

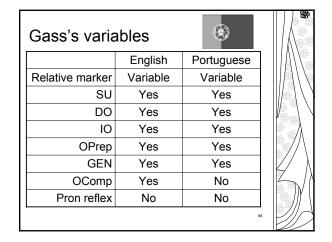
- Subjects
 - 17 high intermediate and advanced adults learners of English as a second language
- Native languages
 - Arabic, Chinese, French, Italian, Korean, Persian, Portuguese, Japanese, Thai.

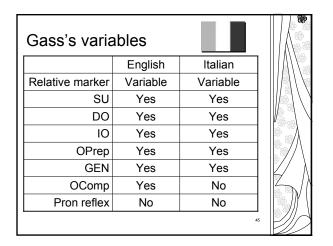


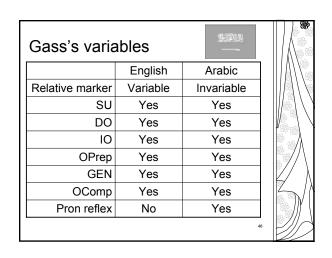


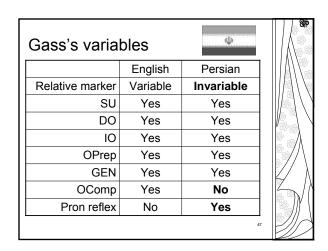


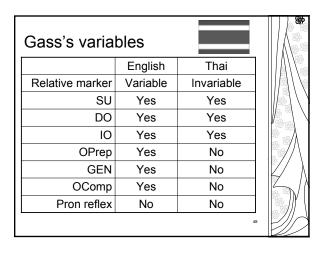






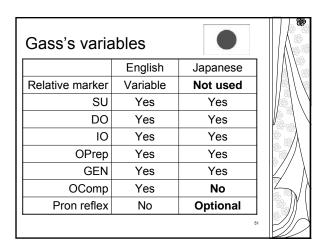


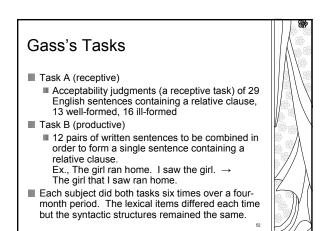




Gass's varia	ıbles	*)	
	English	Chinese	
Relative marker	Variable	Invariable	
SU	Yes	Yes] #]\
DO	Yes	Yes	
IO	Yes	Yes	
OPrep	Yes	Yes	1 //\
GEN	Yes	Yes	1 2/
OComp	Yes	No	
Pron reflex	No	Yes	
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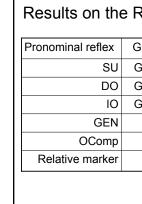
Gass's variables			
	English	Korean	
Relative marker	Variable	Invariable	
SU	Yes	Yes	
DO	Yes	Yes	
IO	Yes	Yes	
OPrep	Yes	Yes	
GEN	Yes	Yes	Z/ \
OComp	Yes	No	
Pron reflex	No	Optional	
		E	





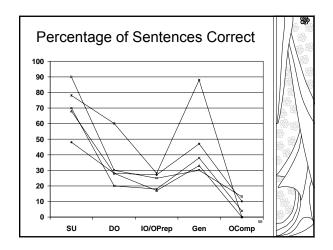
Gass's Method
In order to test whether transfer or the language universal influenced each of the variables in the study, subjects were divided into two language groups.
Subjects in Group 1 had the variable in their native language.Subjects in Group 2 did not.

■ In investigating different variables, the membership of the two groups changed.



Pronominal reflex	Group 1	Group 2
SU	Greater	Less
DO	Greater	Less
IO	Greater	Less
GEN	No difference	
OComp	No difference	
Relative marker	No difference	

Results on the			
Pronominal reflex	Group 1	Group 2	
SU	No difference		
DO	Greater	Less	
IO and OPrep	Greater	Less	
GEN	No difference		1 //\
OComp	No difference] // N
Relative marker	No difference		
			55



Gass's conclusion

- In considering the relationship between native language facts and language universals, language universals were found to play the leading role in this study since they were dominant both in assigning relative orders of difficulty and in determining where language transfer occurs.
- Is this conclusion justified? How can you explain the anomalous behavior of genitives?

57