

Principle A

- We now know why these are ungrammatical too:
 - I) *Himself_i saw John_i in the mirror.
 - 2) *Herself, likes Mary,'s father.
 - 3) *Himself, likes Mary's father,.
 - There is nothing that c-commands and is coindexed with *himself* and *herself*.
 - The anaphors are not bound, which violates Principle A.

Binding domains

- But this is not the end of the story; consider
 - I) *John_i said that himself_i likes pizza.
 - 2) *John, said that Mary called himself,.
- In these sentences the NP John c-commands and is coindexed with (=binds) himself, satisfying our preliminary version of Principle A—but the sentences are ungrammatical.

Binding domains

- I) John_i saw himself_i in the mirror.
- 2) John, gave a book to himself.
- 3) *John_i said that himself_i is a genius.
- 4) *John_i said that Mary dislikes himself_i.
- What is wrong? John binds himself in each case. What is different?
- In the ungrammatical cases, *himself* is in an embedded clause.

Binding domains

Principle A of the Binding Theory (revised) An anaphor must be bound in its binding domain.

Binding Domain (preliminary) The binding domain of an anaphor is the smallest clause containing it.

 It seems that not only does an anaphor need to be bound, it needs to be bound nearby (or locally).

Pronouns

- I) *John_i saw him_i in the mirror.
- 2) John_i said that he_i is a genius.
- 3) John_i said that Mary dislikes him_i.
- 4) John_i saw him_i in the mirror.
- How does the distribution of pronouns differ from the distribution of anaphors?
- It looks like it is just the opposite.

Principle B

Principle B of the Binding Theory A pronoun must be free in its binding domain.

Free Not bound

I) *John_i saw him_i.

2) John_i's mother saw him_i.



B is for bpronoun, that's good enough for me.

Principle C

- We now know where pronouns and anaphors are allowed. Consider the following.
- *Stuart_i saw him_i in the mirror.
- Stuart_i's mother saw him in the mirror.
- *He_i saw Stuart_i in the mirror.
- His, mother saw Stuart, in the mirror.

Principle C

- What's going wrong with these sentences? The pronouns are unbound as needed for Principle B. What are the binding relations here?
- *He_i likes John_i.

Binding Theory

- *She_i said that Mary_i fears clowns.
- His_i mother likes John_i.
- His, mother said that John, fears clowns.

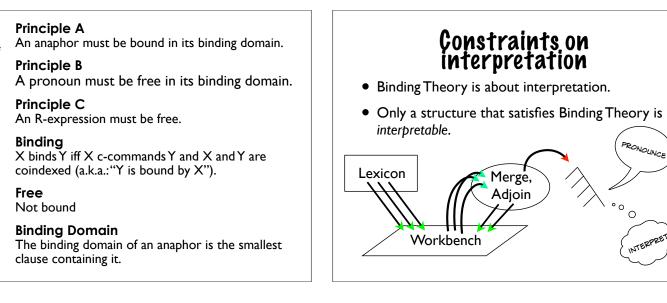


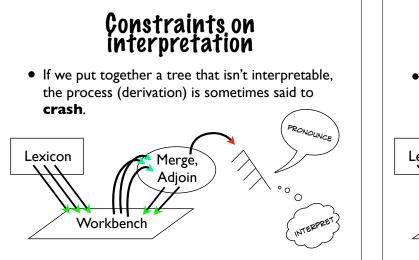
Principle C

- Binding is a means of assigning reference.
- R-expressions have intrinsic reference; they can't be assigned their reference from somewhere else.
- R-expressions can't be bound, at all.

Principle C of the Binding Theory An R-expression must be free.

C is for r-eCspression, that's... oh, never mind.





Constraints on interpretation • If we succeed in putting together a tree that is interpretable (satisfying the constraints), we say the process (derivation) converges. Lexicon Workbench

l hadn't seen anyone ever lift a finger yet.

- Pat didn't invite anyone to the party.
- Pat does not know anything about syntax.
- 3) Pat hasn't ever been to London.
- Pat hasn't seen Forrest Gump yet.
- 5) Pat didn't lift a finger to help.
- 6) Pat didn't have a red cent.

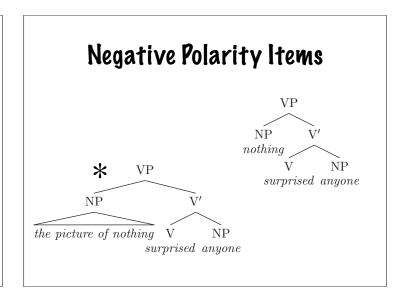
- 7) *Pat invited anyone to the party.
- *Pat knows anything about syntax.
- 9) *Pat has ever been to London.
- 10)*Pat has seen Forrest Gump yet.
- II)*Pat lifted a finger to help.
- 12)*Pat had a red cent.

Licensing

- NPIs (Negative Polarity Items) are permitted, given "license to appear" by a negative expression. Without a licensor, an NPI is not possible.
- I) John didn't invite Mary/anyone to the party (, did he?)
- 2) John invited Mary/*anyone to the party (, didn't he?)
- 3) Nobody invited Mary/anyone to the party (, did they?)
- NPIs are licensed by negation in a sentence.

Negative Polarity Items

- But it isn't quite as simple as that. Consider:
 - I) I didn't see anyone.
 - 2) *I saw anyone.
 - 3) *Anyone didn't see me.
 - 4) *Anyone saw me.
- It seems that simply having negation in the sentence isn't *by itself* enough to license the use of an NPI.
- Negation has to precede the NPI?
 - 5) *The picture of nobody pleased anyone.



Pondering some apparent early disobedience

- Young kids (5-6 years) seem to accept sentences like (1) as meaning what (2) means for adults.
 - I) Mama Bear is pointing to her.
 - 2) Mama Bear is pointing to herself.
- Suppose that, contrary to appearances, kids *do* know and obey Principle B. Look carefully at the definitions of Binding Theory. If Principle B isn't the problem, what do you think kids are getting wrong to allow (1) to have the meaning of (2)?
- Think in particular about how you decide which index to assign to *her*. What is the implication of having the same index? What is the implication of having different indices?