Semantics 4

Susan likes herself.

Susan likes her.

Susan_a likes herself_a.

Susan_a likes her_b.

Susan_a likes herself_a.

Susan_a likes her_b.

*Susan_a likes herself_b.

*Susan_a likes her_a.

Susan_a likes herself_a.

Susan_a likes <u>her</u>_b. pronouns cannot corefer with anything *Susan_a likes herself_b. in the sentence.

*Susan_a likes <u>her</u>_a.

Susan_a likes <u>herself</u>_a. corefer with something. Susan_a likes <u>her</u>_b. pronouns cannot corefer with anything *Susan_a likes <u>herself</u>_b. in the sentence.

*Susan_a likes <u>her</u>_a.

anaphors must corefer with something?

Susan_a likes <u>herself</u>_a. *Susan_a likes <u>herself</u>_b.

anaphors must corefer with something?

Susan_a likes <u>herself</u>_a. *Susan_a likes <u>herself</u>_b.

*Susan_a's father likes <u>herself_a</u>.



Binding Theory TP TP NP \mathbf{T}' NP T' Susan VP DP VΡ N Т Τ father must must ŇΡ NP NP V D herself Susan like herself like **'**S

Binding Theory TP TP NP NP T' **T**1 Susan VP DP VΡ Т N Т father must must ÑΡ NP D V

herself Susan

'S

like

NP

like herself



c-command:

 α c-commands β if every node that dominates α dominates β .



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the only node dominating the NP Susan also dominates herself.



c-command:

 α c-commands β if every node that dominates α dominates β .

the only node dominating the NP Susan also dominates herself.
 → Susan c-commands herself.



Multiple nodes dominate the NP Susan, and not all of them dominate

herself.



Multiple nodes dominate the NP Susan, and not all of them dominate

herself.

→ Susan doesn't c-command herself.



anaphors (words like *herself, myself,* etc.) must be c-commanded by something that corefers with them.

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 α **<u>binds</u>** β if α c-commands and corefers with β .

anaphors must be bound.

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<u>anaphors</u> include: <u>reflexives</u> (*herself*) <u>reciprocals</u> (*each other*)

[John and Bill] like <u>each other</u> * [John and Bill]'s father likes <u>each other</u>

<u>anaphors</u> must be bound. <u>pronouns</u> must be free (=not bound)

Susan_a likes <u>herself</u>_a. * Susan_a's father likes <u>herself</u>_a. * Susan_a likes <u>her</u>_a. Susan_a's father likes <u>her</u>_a.

Susan_a likes <u>herself</u>_a.

I told Susan_a about <u>herself</u>_a.

Susan_a likes <u>herself</u>_a.

I told Susan_a about <u>herself</u>_a.

*<u>Herself</u>_a likes Susan_a.

Susan_a likes <u>herself</u>_a.

*Susan_a thinks I like <u>herself</u>_a.

Susan_a likes <u>herself</u>_a.

*Susan_a thinks I like <u>herself</u>_a.

Principle A: anaphors must be bound...<u>within TP.</u>

*Susan_a likes <u>her</u>_a.

Susan_a thinks I like <u>her</u>_a.

Principle A:

anaphors must be bound...<u>within TP.</u> **Principle B:**

pronouns must be free...within TP.

*She_a likes Susan_a.

Her_a father likes Susan_a.

Principle A:

anaphors must be bound within TP. **Principle B:**

pronouns must be free within TP.

*She_a likes Susan_a.

Her_a father likes Susan_a.

Principle A:

anaphors must be bound within TP. **Principle B:**

pronouns (and names?) must be free within TP.

Susan_a thinks I like her_a. *She_a thinks I like Susan_a.

Principle A:

anaphors must be bound within TP. **Principle B:**

pronouns (and names?) must be free within TP.

Susan_a thinks I like her_a. *She_a thinks I like Susan_a.

Principle A:

anaphors must be bound within TP. **Principle B:**

pronouns (and names?) must be free within TP. **Principle C:**

"R-expressions" must be free.

[While <u>she</u> was eating], <u>Susan</u> read a book.

*<u>She</u> read a book while <u>Susan</u> was eating.

 \rightarrow not about linear precedence

Mary decided to leave.

Mary decided to leave.

how many TPs are in this sentence?

[Mary decided [to leave]].

how many TPs are in this sentence?

[Mary decided [to leave]].

how many TPs are in this sentence? how does the smaller one satisfy the EPP?
[Mary decided [<u>**PRO**</u> to leave]].

how many TPs are in this sentence? how does the smaller one satisfy the EPP?

[Mary decided [<u>**PRO**</u> to leave]].

how many TPs are in this sentence? how does the smaller one satisfy the EPP?

PRO: an unpronounced pronoun which refers (in this case) to *Mary*.

John_i promised Mary_k to defend himself_i *John_i promised Mary_k to defend herself_k *John_i told Mary_k to defend himself_i John_i told Mary_k to defend herself_k

John_i promised Mary_k to defend himself_i *John_i promised Mary_k to defend herself_k *John_i told Mary_k to defend himself_i John_i told Mary_k to defend herself_k

• hard to see how to account for these facts assuming only the NPs we can <u>see</u>...

John_i promised Mary_k [PRO_i to defend himself_i] *John_i promised Mary_k [PRO_i to defend herself_k] *John_i told Mary_k [PRO_k to defend himself_i] John_i told Mary_k [PRO_k to defend herself_k]

• hard to see how to account for these facts assuming only the NPs we can <u>see</u>...

...but we already had a reason (the EPP) to want the embedded clauses to have (invisible) subjects, which we call PRO.

John_i promised Mary_k [PRO_i to defend himself_i] *John_i promised Mary_k [PRO_i to defend herself_k] *John_i told Mary_k [PRO_k to defend himself_i] John_i told Mary_k [PRO_k to defend herself_k]

•...but we already had a reason (the EPP) to want the embedded clauses to have (invisible) subjects, which we call PRO.

...and now we have a new reason: PRO is binding the anaphors.

[Which picture of himself_i] did John_i like best?

• new argument for movement: *John* doesn't ccommand *himself* in the sentence as it's pronounced...but it <u>used</u> to, before movement took place. Apparently that's enough. This phenomenon is called **reconstruction**: treating something, for purposes of interpretation, as though it hadn't moved.

Which picture did John think that Mary bought?

<u>Which picture</u> did John think that Mary bought $_?$

<u>Which picture</u> did John think that Mary bought ___?

Which picture did John think _____ that Mary bought ____?

<u>Which picture</u> did John think that Mary bought ___?

Which picture did John think _____ that Mary bought ____?

Which picture of himself did John think that Mary bought?

<u>Which picture</u> did John think that Mary bought ___?

Which picture did John think _____ that Mary bought ____?

Which picture of himself did John think that Mary bought?

(*John thought that Mary bought <u>a picture of himself</u>)

<u>Which picture</u> did John think that Mary bought __ ?



Which picture of himself did John think that Mary bought?

(*John thought that Mary bought <u>a picture of himself</u>)

A condition on reconstruction

Two guards seem to me to be standing in front of every building.

(ambiguous?)

A condition on reconstruction

Two guards seem to me to be standing in front of every building.

(ambiguous? yes.)

Two guards seem to themselves to be standing in front of every building.

(ambiguous?)

A condition on reconstruction

Two guards seem to me to be standing in front of every building.

(ambiguous? yes.)

Two guards seem to themselves to be standing in front of every building.

(ambiguous? no.)

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