Crossover i¹
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¹ 24.979: Topics in semantics

Getting high: Scope, projection, and evaluation order

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1 Setting the stage

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- 2 The phenomenon
- 2.1 Weak crossover and overt movement

The simplest form of the Weak Crossover (wco) paradigm⁴ is illustrated below:

 $^{\rm 4}$ The term "crossover" was originally coined by Paul Postal.

(1) a. Who^x t_x likes his_x mother? b. *Who^x does his mother like t_x ?

Add actual reference

At first blush, it looks like the *wh*-quantifier can only bind a pronominal if the base-position of the *wh* c-commands the pronoun.

Why is this a problem? It is fairly standard to assume that scope feeds binding; in fact, according in semantics 101, it's often assumed that scope is *necessary* for binding – moving the *wh* creates an abstraction index.

The following LF should be perfectly legitimate from the perspective of the semantics:

(2) who 1 [his₁ mother likes t_1]?

Since both traces and pronouns are interpreted as variables, there is no reason why the representation above shouldn't result in a sensible reading.

- 2.2 Strong crossover
- (3) a. *Who^x did he_x say Mary saw t_x ?
 - b. Who^x said Mary saw him $_x$.

- 2 patrick d. elliott and martin hackl
- 2.3 woo and quantificational scope

This constraint on variable binding extends beyond configurations involving overt *wh*-movement to those involving quantificational scope.⁵

(4) a. Everyone^x loves his_x mother.b. *His_x mother loves everyone^x.

2.4 A- vs. A'-dependencies

- (5) Everyone seems to his mother to be a genius.
- (6) Who seems to his mother to be a genius.
- 3 Weakest crossover

Cite Lasnik and Stowell

(7) Who did you stay with before his wife had spoken to?

Idea: the pronominal is bound by the wh-expression, NOT the parasitic gap.

⁵ This was first observed by Chomsky (1976)

Add proper reference