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Computational Psy	cholinguistics
Lecture 4: Gaps &	Reanalysis
Matthew W. Crocker	
Marty Mayberry	
ф.	<del>.</del>

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Long Distance Dep	endencies
Active Filler Strategy: ("Gap as a first reso	t")
When a filler has been identified, rank the possibility of a assigning it to a gap above all other options.	
♣ Wh-Fillers:	
👶 Who; did Fred tell Mary e; left the country'	dispreferred
Whoi did Fred tell ei Mary left the country? preferred	
Subject-Relative preference:	
👶 I met the man; that John likes e;. dispr	eferred
🐥 I met the man; that e; likes John. prefe	erred
ф	<b></b>

















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## **Properties of Trees**

Single root condition: a single root node dominates all nodes

## $\exists x \forall y \cdot dom(x, y)$

Exclusivity condition: no two nodes can stand in dom & prec relations

### $\forall x, y \cdot prec(x, y) \lor prec(y, x) \Leftrightarrow \neg dom(x, y) \land dom(y, x)$

Inheritance: nodes inherit precedence properties of their ancestors

### $\forall w, x, y, z \cdot prec(x, y) \land dom(x, w) \land dom(y, z) \rightarrow prec(w, z)$

- dom and prec are transitive relations
- & dom is reflexive, prec is irreflexive

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# Monotonic Parsing and Reanalysis



























