

LING 696G: Lecture 7

Sandiway Fong

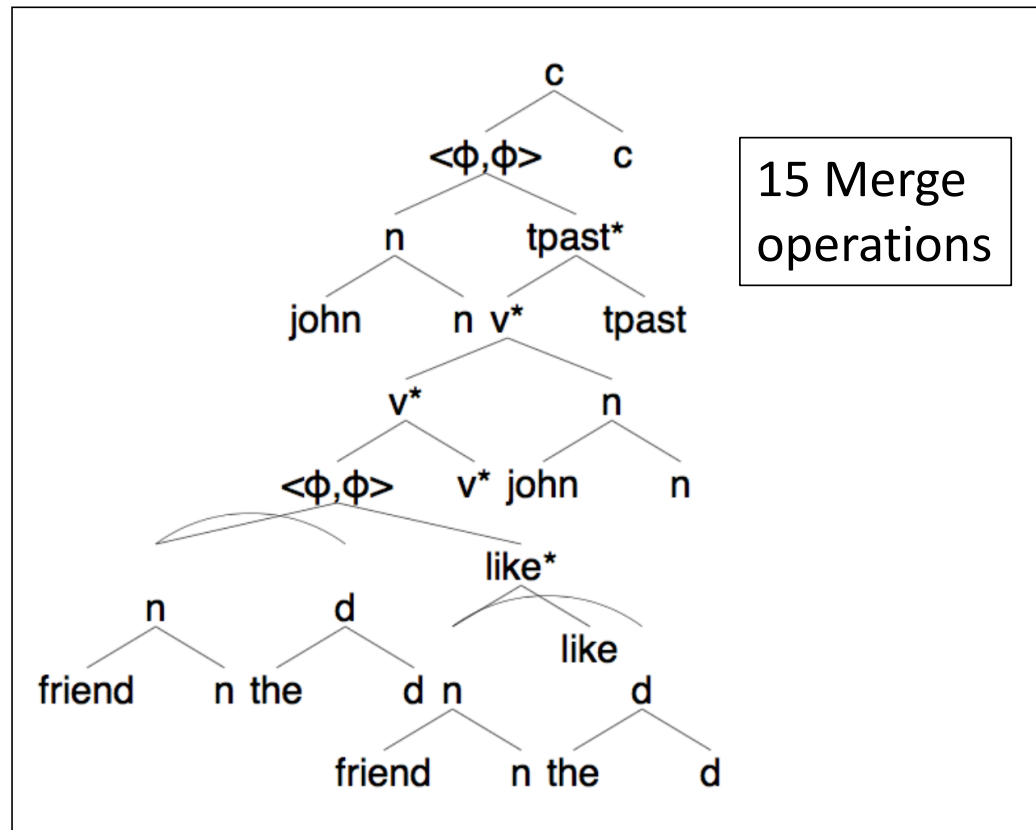
Deriving sentences

- Chomsky 2015
 - R and β Merge
 - Internal Merge DP (from inside β) gives [$_{\alpha}$ DP [R β]]
 - v^* and [$_{\alpha}$ DP [R β]] Merge
 - transmit ϕ from v^* to R, α labeled $\langle\phi, \phi\rangle$, R strengthened, [$v^*[_{\langle\phi, \phi\rangle}$ DP [$_R$ R β]]]
 - Question: why doesn't phasehood get transmitted here? (simpler than doing it later)
 - R raises to v^* , v^* affixes to R (root categorization), [R- $v^*[_{\langle\phi, \phi\rangle}$ DP [$_R$ R β]]]
 - Lower copy of R gets activated (phasehood)
 - Question: but usually lower copies are rendered invisible (to labeling...)
 - Transfer complement of phase head, i.e. β

Example: *John liked the friend*

Labeled parse:

- Roots: *friend, john, like, the*
- categorizers: n, d, v^*
- curved line: pair merge
- uses nP (not dP):
determiners are pair-merged XPs; Oishi (2015) and Chomsky (2007)



Other Merge Constraints

- Lexicon:
 - roots: *friend, john, like*
 - categorizers: n, d, v*
- Merge Restrictions:
 - (a) roots must be categorized (as soon as possible)
 - (b) each categorizer must find its root (with no intervening heads)
 - (c) categorizers can only categorize once
 - e.g. $\{c, \{R, \{c, R\}\}\}$ formed with only c and R (R=root, c=categorizer)

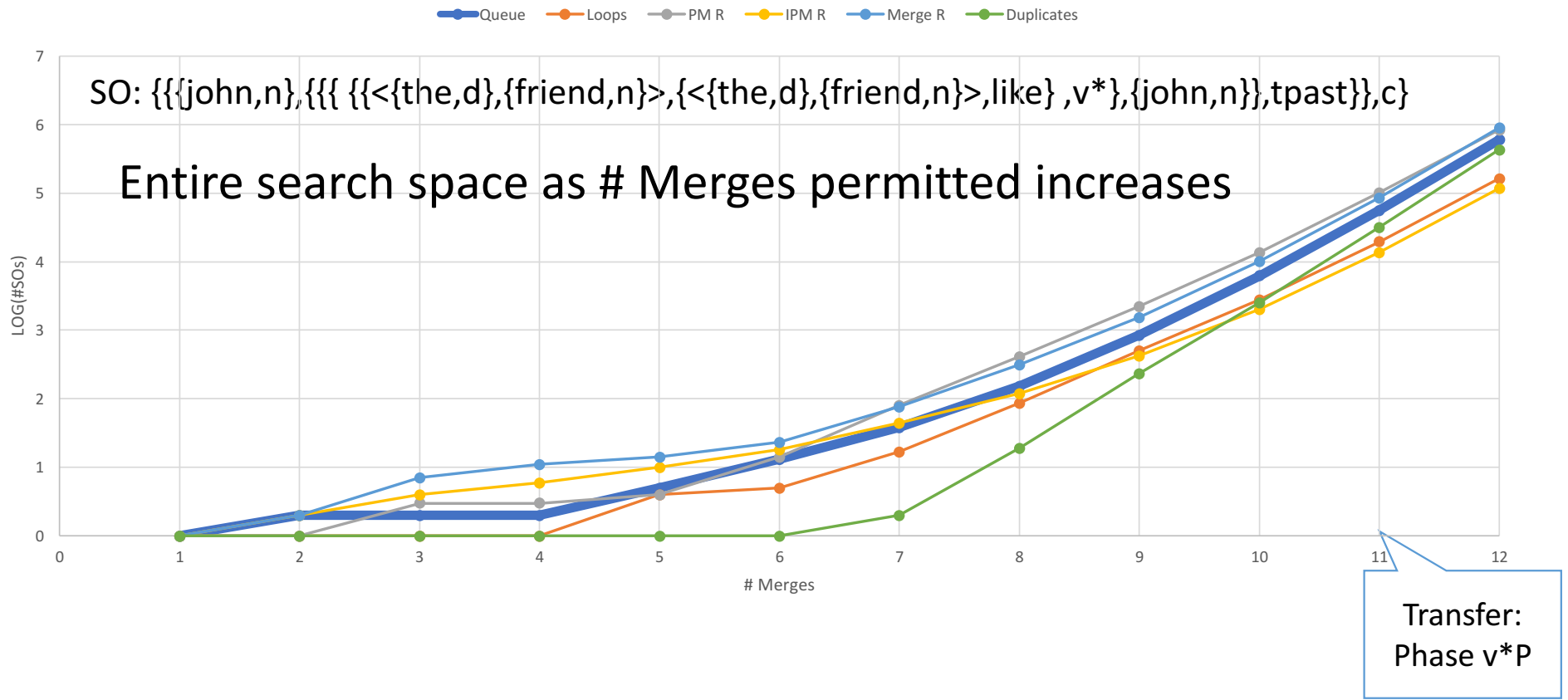
Example: *John liked the friend*

Heads:[friend,n!case,[the,d],like,v*,[john,n!case],tpast,c]

		Merge #																
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Branching factor	1	Successful	Successful	Successful	Successful	Successful	Successful	Successful	Successful	Successful	Successful	Successful	Successful	Successful	Successful	Successful	Successful	
	2			Successful		Successful		Successful		Successful			Successful					
	3						Successful											
	4																Successful	
	5															Successful		
	6																	Successful
	7																	
	8																	
	9																	
	10												Successful					
	11																	Successful

= Successful derivation (*shown on previous slide*)

Example: *John liked the friend*



Heads: [friend,n!case,[the,d],like, v*,[john,n!case],tpast,c]

Step	Br. #	Branches	Op	SO
0	-	-	-	friend
1	1	1	ESM	{friend,n!case}
2	2	2	DWS	the
3	1	1	ESM	{the,d}
4	2	2	UWS	{friend,n!case}
5	1	3	EPM	<{the,d},{friend,n!case}>
6	2	2	ESM	{<{the,d},{friend,n!case}>,like}
7	1	2	ISM	{<{the,d},{friend,n!case}>,<{the,d},{friend,n!case}>,like}}

Key: (SM=Set Merge) ESM=External SM, ISM=Internal SM
 (PM=Pair Merge) EPM=External PM,
 (WS=Workspace) DWS=Down WS, UWS=Up WS

Heads: [friend,n!case,[the,d],like, v*, [john,n!case],tpast,c]

Step	Br. #	Branches	Op	SO
8	1	1	ESM	{{<{the,d},{friend,n}>,<{the,d},{friend,n}>,like}},v*}
9	10	10	DWS	john
10	1	1	ESM	{john,n!case}
11	2	2	UWS	{{<{the,d},{friend,n}>,<{the,d},{friend,n}>,like}},v*}
12	11	11	ESM	{{▲,v*},{john,n!case}}
13	5	5	EPM	{{{▲,v*},{john,n!case}},tpast}
14	4	7	ISM	{{john,n!case},{▲,v*},{john,n!case}},tpast}}
15	6	6	IEM	{{{john,n},{▲,v*},{john,n}},tpast}},c}

▲ denotes a transferred SO; here, it's {<{the,d},{friend,n}>,<{the,d},{friend,n}>,like}} (= complement of phase head v*)

