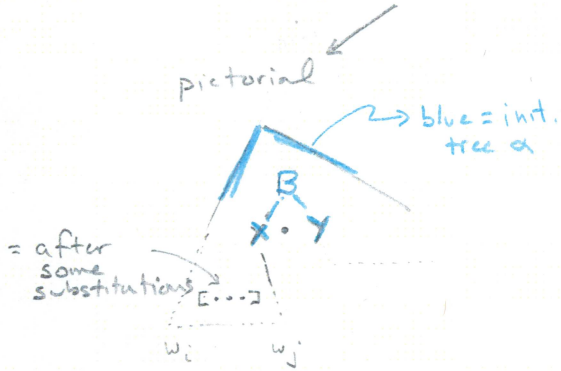


Lecture 8: Intuition behind Earley-style parsing with adjunction

1. Reminder:

Dot notation, assume no adjunction

search state w.r.t. a given initial tree  $\alpha$



official, "transposed" for space

tree name  
dot address  
dot is left/right  
start of span in w  
last processed in w

ex:  $\alpha$   
X's address } or Y's address  
right  
:  
:  
d

2. Prediction step:  $\forall$  trees  $\hat{\alpha}$  with root Y, add  $[\hat{\alpha}, 0, \text{left}, j+1, j]$

or other notation for "nothing covered yet".

3. For adjunction see Fig 2.14 of Schabes' thesis:

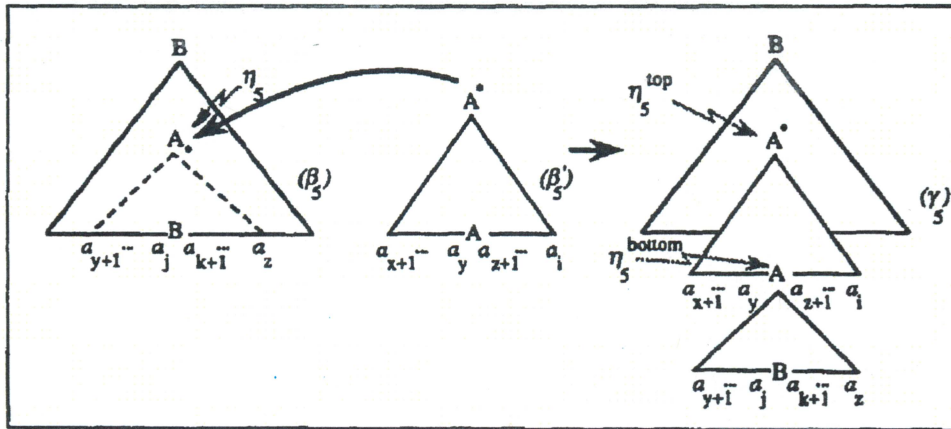


Figure 2.14: Updating of the boundaries when adjunction occurs.