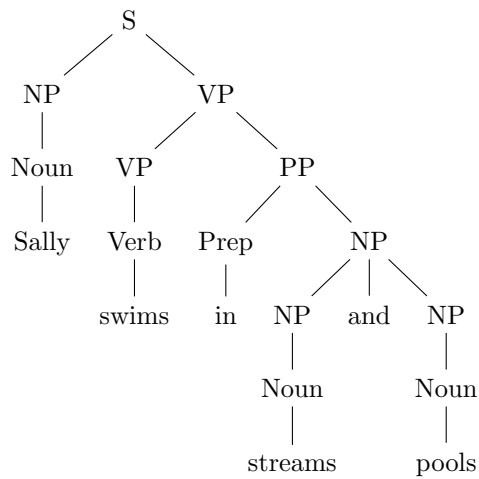


# Parse Trees and CYK Table for *“Sally swims in streams and pools.”*

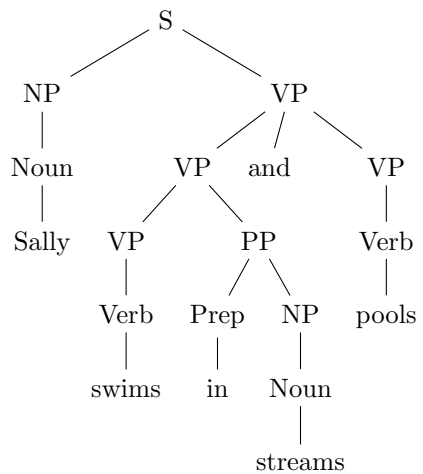
## Parse Trees

Two parse trees are possible due to ambiguity in how and combines noun/verb phrases and the dual nature of words like streams and pools.

### Tree 1: PP modifies VP (streams and pools as NP)



### Tree 2: streams and pools as conjoined VPs (pools = Verb)



## CYK Parse Table

**Sentence:** Sally swims in streams and pools

	1	2	3	4	5	6
Word	Sally	swims	in	streams	and	pools
T[1,1]	Noun, NP					
T[2,2]	Verb, Noun, VP					
T[3,3]	Prep					
T[4,4]	Noun, Verb					
T[5,5]	–					
T[6,6]	Noun, Verb					
T[1,2]	–	NP VP				
T[2,3]	–	VP PP				
T[3,4]	PP					
T[4,5]	–					
T[5,6]	NP					
T[1,3]	–					
T[2,4]	VP					
T[3,5]	–					
T[4,6]	NP					
T[1,4]	–					
T[2,5]	–					
T[3,6]	PP					
T[1,5]	–					
T[2,6]	VP					
T[1,6]	S					

*Note: This is a partial representation to show key entries. Cells without derivations are marked as ‘–’.*