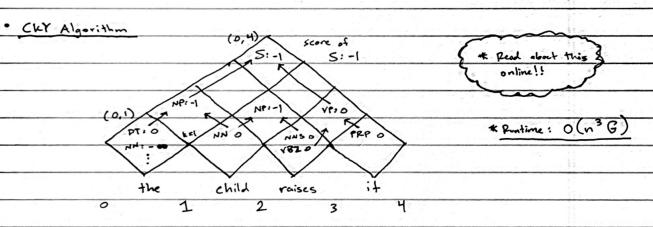
## CKY Algorithm

· Compute most likely tree for a given sentence x

Viterbi tay



+[i,j,x]: score of best devivation of x over span (i,j)

Base: +[; ;+1 , x] = log P(w; /x)	Example Grammar
	1.0 DT -+ the
Recurrent: +[i,j,x] = max max log P(x→x,,xz) + +[i, k, x,]	1.0 NN - child
++[k,j,×2]	1.0 NNS -> raises
	1.0 PRP -> it
· Look into :	
· Yerfical Markovization	1 0.5 NP VP
· Horizontal Markovization	OS NP - NN NNS
· Lexicalization	1.0 VP - VBZ PRP
	* [0=(0.5) = -1

These refinements make PCFG's work