

# Natural Language Parsing

Foundations of Language Science and Technology (WS 2012/2013)

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- Given the following CFG and input sentence (already tagged with POSes, POS tags are terminals in the grammar), please work out the complete parsing chart using the Earley's algorithm.

- $S \rightarrow NP VP$
- $NP \rightarrow Pron$
- $NP \rightarrow Det N$
- $NP \rightarrow NP PP$
- $VP \rightarrow V NP$
- $VP \rightarrow VP PP$
- $PP \rightarrow P NP$

	I Pron	saw V	a Det	girl N	with P	a Det	telescope N	
i \ h	0	1	2	3	4	5	6	7
0								
1								
2								
3								
4								
5								
6								
7								