

Table 1.

$S \rightarrow NP VP \text{ “.”}$

$NP \rightarrow \text{PropN} \mid N \mid N RC$

$VP \rightarrow V (NP)$

$RC \rightarrow \textit{who} NP VP \mid \textit{who} VP (NP)$

$N \rightarrow \textit{boy} \mid \textit{girl} \mid \textit{cat} \mid \textit{dog} \mid \textit{boys} \mid \textit{girls} \mid \textit{cats} \mid \textit{dogs}$

$\text{PropN} \rightarrow \textit{John} \mid \textit{Mary}$

$V \rightarrow \textit{chase} \mid \textit{feed} \mid \textit{see} \mid \textit{hear} \mid \textit{walk} \mid \textit{live} \mid \textit{chases} \mid \textit{feeds} \mid \textit{sees} \mid \textit{hears} \mid \textit{walks} \mid \textit{lives}$

Additional restrictions:

- number agreement between N & V within clause, and (where appropriate) between head N & subordinate V
 - verb arguments:
 - $\textit{chase}, \textit{feed} \rightarrow$ require a direct object
 - $\textit{see}, \textit{hear} \rightarrow$ optionally allow a direct object
 - $\textit{walk}, \textit{live} \rightarrow$ preclude a direct object
- (observed also for head/verb relations in relative clauses)
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