

- a.  $S \rightarrow \text{NP VP}$
- b.  $\text{NP} \rightarrow (\text{Det}) \text{N} (\text{PP})$
- c.  $\text{VP} \rightarrow (\text{Aux}) \text{V} (\text{NP}) (\text{AdvP})^n$
- d.  $\text{PP} \rightarrow \text{P NP}$
- e.  $\text{AdvP} \rightarrow \left\{ \begin{array}{c} \text{Adv} \\ \text{PP} \end{array} \right\}$