

Quiz 4

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The string "hit the person with the fish" is ambiguous between two interpretations. Write a simple context-free grammar that assigns distinct analyses to this string, corresponding to its two different interpretations. Show these two analyses generated by your grammar in the form of tree representations.

$V \rightarrow \text{hit}$ $VP \rightarrow VNP$ $NP \rightarrow D \bar{N}$ $PP \rightarrow P NP$
 $D \rightarrow \text{the}$ $VP \rightarrow VP PP$ $\bar{N} \rightarrow NP P$
 $N \rightarrow \text{person}$ $\bar{N} \rightarrow N$
 $P \rightarrow \text{with}$

