

S → **NP VP**
NP → **art n**
NP → **art adj n**
VP → **v NP**

① The ① old ② man ③ the ④

$S \rightarrow NP VP$
 $NP \rightarrow art n$
 $NP \rightarrow art adj n$
 $VP \rightarrow v NP$

① The ② old ③ man ④ the


ART1


 $NP \rightarrow ART \cdot N$


 $NP \rightarrow ART \cdot ADJ N$

$S \rightarrow NP VP$
 $NP \rightarrow art n$
 $NP \rightarrow art adj n$
 $VP \rightarrow v NP$

① The ② old man ③ the ④

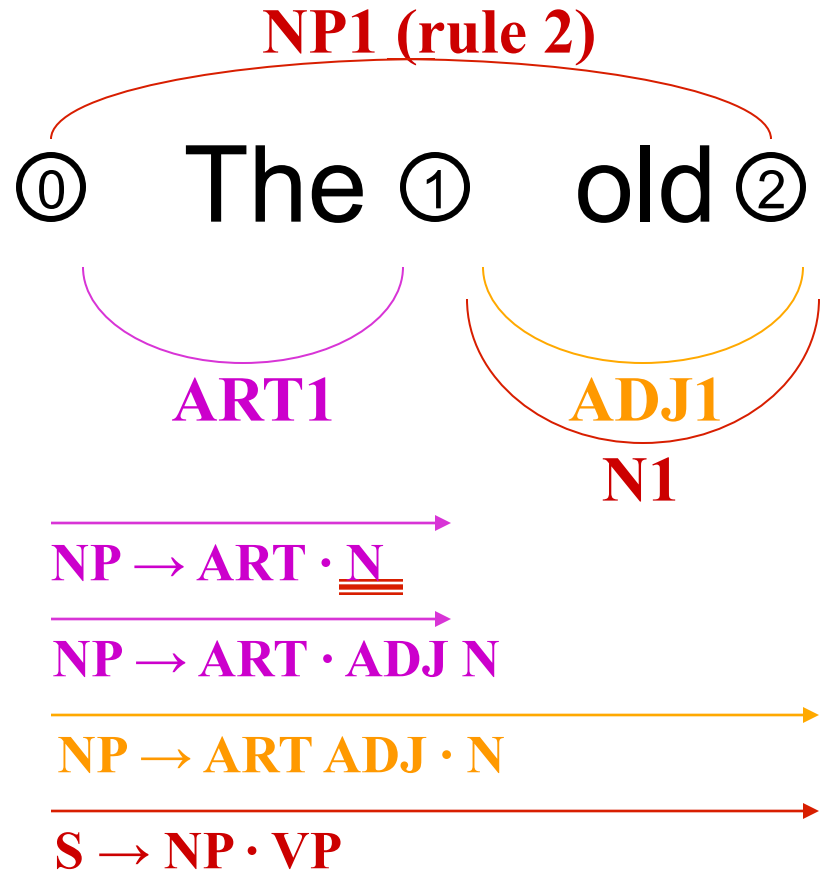
ART1 ADJ1

$NP \rightarrow ART \cdot N$

$NP \rightarrow ART \cdot ADJ N$

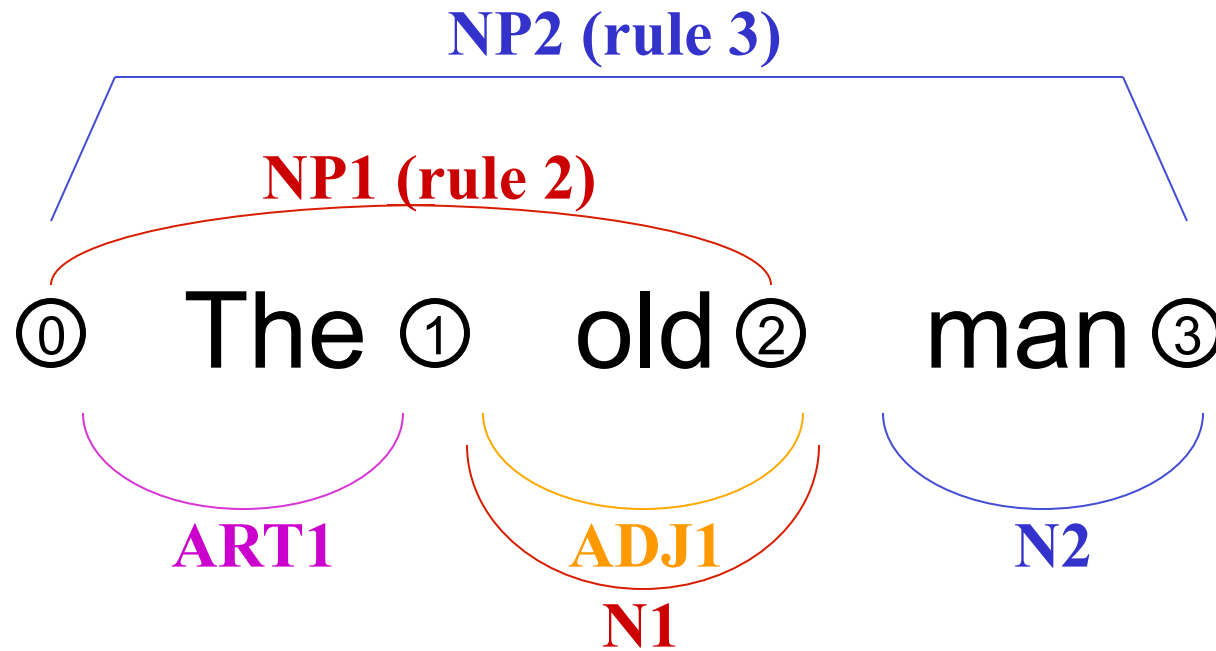
$NP \rightarrow ART ADJ \cdot N$

$S \rightarrow NP VP$
 $NP \rightarrow art n$
 $NP \rightarrow art adj n$
 $VP \rightarrow v NP$



man ③ the ④

$S \rightarrow NP VP$
 $NP \rightarrow art n$
 $NP \rightarrow art adj n$
 $VP \rightarrow v NP$



$NP \rightarrow ART \cdot N$

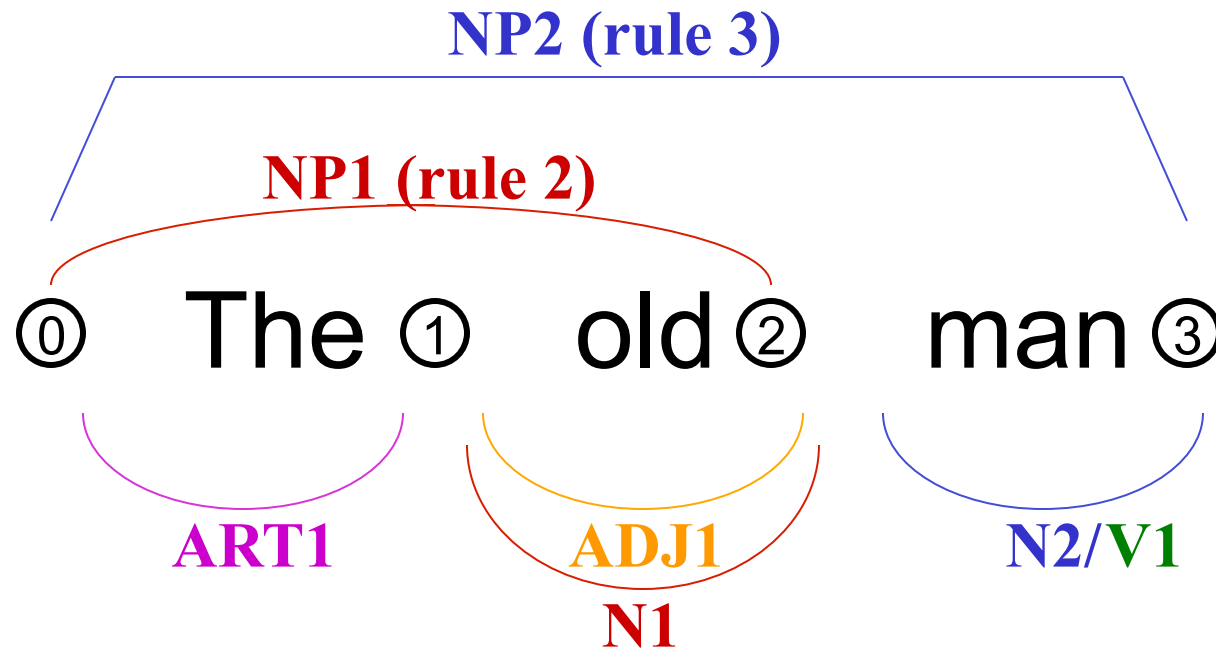
$NP \rightarrow ART \cdot ADJ N$

$NP \rightarrow ART ADJ \cdot \underline{N}$

$S \rightarrow NP \cdot VP$

$S \rightarrow NP \cdot VP$

$S \rightarrow NP VP$
 $NP \rightarrow art n$
 $NP \rightarrow art adj n$
 $VP \rightarrow v NP$



the ④

$NP \rightarrow ART \cdot N$

$NP \rightarrow ART \cdot ADJ N$

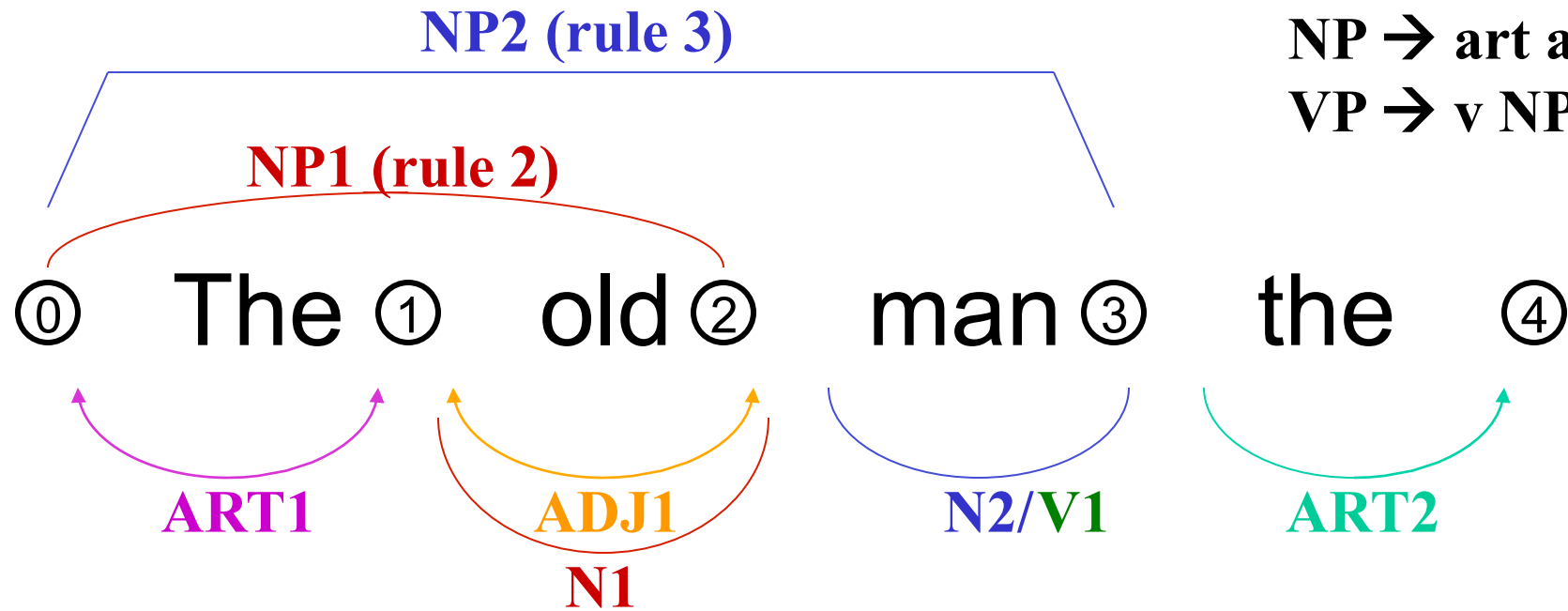
$NP \rightarrow ART ADJ \cdot N$

$S \rightarrow NP \cdot VP$

$VP \rightarrow V \cdot NP$

$S \rightarrow NP \cdot VP$

$S \rightarrow NP VP$
 $NP \rightarrow art n$
 $NP \rightarrow art adj n$
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$NP \rightarrow ART \cdot N$

$NP \rightarrow ART \cdot ADJ N$

$NP \rightarrow ART ADJ \cdot N$

$S \rightarrow NP \cdot VP$

$VP \rightarrow V \cdot NP$

$S \rightarrow NP \cdot VP$

...finish...