

Quiz

They observed the stars in the sky with a telescope
She spotted the bird in the forest with a pair of binoculars
We read the book in the library with glasses
The painter created the artwork in the studio with a brush.

- 1) Given above are a number of sentences. Construct a grammar from the above.
- 2) See if there are any missing grammar forms with the following collection:
- 3) Generate parse tree for the following sentence (for reference part of speech is given):

He saw the man on the hill with a telescope

- "he" - Pronoun (subject)
- "saw" - Verb (past tense)
- "saw" - noun
- "the" - Article (definite article)
- "man" - Noun (common noun)
- "on" - Preposition
- "the" - Article (definite article)
- "hill" - Noun (common noun)

- "with" - Preposition
- "a" - Article (indefinite article)
- "telescope" - Noun (common noun)

Grammar	Lexicon
$S \rightarrow NP VP .$	$PRP \rightarrow we \mid he$
$S \rightarrow NP VP$	$DT \rightarrow the \mid that \mid those$
$S \rightarrow "S", NP VP .$	$JJ \rightarrow cold \mid empty \mid full$
$S \rightarrow -NONE-$	$NN \rightarrow sky \mid fire \mid light \mid flight \mid tomorrow$
$NP \rightarrow DT NN$	$NNS \rightarrow assets$
$NP \rightarrow DT NNS$	$CC \rightarrow and$
$NP \rightarrow NN CC NN$	$IN \rightarrow of \mid at \mid until \mid on$
$NP \rightarrow CD RB$	$CD \rightarrow eleven$
$NP \rightarrow DT JJ, JJ NN$	$RB \rightarrow a.m.$
$NP \rightarrow PRP$	$VB \rightarrow arrive \mid have \mid wait$
$NP \rightarrow -NONE-$	$VBD \rightarrow was \mid said$
$VP \rightarrow MD VP$	$VBP \rightarrow have$
$VP \rightarrow VBD ADJP$	$VBN \rightarrow collected$
$VP \rightarrow VBD S$	$MD \rightarrow should \mid would$
$VP \rightarrow VBN PP$	$TO \rightarrow to$
$VP \rightarrow VB S$	
$VP \rightarrow VB SBAR$	
$VP \rightarrow VBP VP$	
$VP \rightarrow VBN PP$	
$VP \rightarrow TO VP$	
$SBAR \rightarrow IN S$	
$ADJP \rightarrow JJ PP$	
$PP \rightarrow IN NP$	