
Phase 1:

Test: The mighty hero fights the dragon in the dark forest.

Tokens:

The < Determiner >

mighty <Adjective>

hero <Noun>

fights < Verb>

the < Determiner >

dragon < Noun>

in the dark forest < Location>

. < Unknown>

Test: A brave old knight who rescues villager rides.

Tokens:

A < Determiner >

brave <Adjective>

old <Adjective>

knight <Noun>

who < Relative Clause >

rescues <Verb>

villager < Noun>

rides <Verb>

. <Unknown>

Test: The wizard discovers treasure in the cave.

Tokens:

The < Determiner >

wizard <Noun>

discovers < Verb>

treasure < Noun>

in <Preposition>

the < Determiner >

cave. <Unknown>

Test: The princess holds the sword quickly.

Tokens:

The < Determiner >

princess < Noun>

holds < Verb>

the < Determiner >

sword < Noun>

quickly <Adverbial>

. < Unknown>

Test: The brave knight protects the wizard quickly Tokens: The < Determiner > brave <Adjective> knight < Noun> protects <Verb> the < Determiner > wizard < Noun> quickly <Adverbial> Test: The brave hero fights THE dragon in the dark forest Tokens: The < Determiner > brave <Adjective> hero <Noun> fights < Verb> THE < Determiner > dragon < Noun> in the dark forest <Location> Test: Hello, World! Tokens: Hello, <Unknown> World! < Unknown> Test: Viva Mapua Tokens: Viva < Unknown> Mapua < Unknown> Test: The Brave Viva Mapua Tokens: The < Determiner > Brave < Adjective > Viva <Unknown> Mapua < Unknown> Phase 2:

Test: The mighty hero fights the dragon in the dark forest. <Story>

```
=> <Sentence>
=> <SimpleSentence>
=> <Subject> <VerbPhrase> <Extra>
=> <NounPhrase> <VerbPhrase> <Extra>
=> <Determiner> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
=> "The" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
=> "The" <Adjective> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
=> "The" "mighty" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
=> "The" "mighty" <Noun> <VerbPhrase> <Extra>
=> "The" "mighty" "hero" <VerbPhrase> <Extra>
=> "The" "mighty" "hero" <Verb> <Object> <Extra> <Extra>
=> "The" "mighty" "hero" "fights" <Object> <Extra> <Extra>
=> "The" "mighty" "hero" "fights" <NounPhrase> <Extra> <Extra>
=> "The" "mighty" "hero" "fights" <Determiner> <AdjectiveList> <Noun> <Extra> <Extra>
=> "The" "mighty" "hero" "fights" "the" <AdjectiveList> <Noun> <Extra> <Extra>
=> "The" "mighty" "hero" "fights" "the" <Noun> <Extra> <Extra>
=> "The" "mighty" "hero" "fights" "the" "dragon" <Extra> <Extra>
=> "The" "mighty" "hero" "fights" "the" "dragon" <Location> <Extra>
```

Test: A brave old knight who rescues villager rides.

```
<Story>
```

e = e = .

- => <Sentence>
- => <SimpleSentence>
- => <Subject> <VerbPhrase> <Extra>
- => <NounPhrase> <VerbPhrase> <Extra>
- => <Determiner> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "A" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "A" <Adjective> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "A" "brave" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "A" "brave" <Adjective> <AdjectiveList> <Noun> <VerbPhrase> <Extra>

=> "The" "mighty" "hero" "fights" "the" "dragon" "in the dark forest" <Extra>

=> "The" "mighty" "hero" "fights" "the" "dragon" "in the dark forest"

- => "A" "brave" "old" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "A" "brave" "old" <Noun> <VerbPhrase> <Extra>
- => "A" "brave" "old" "knight" <VerbPhrase> <Extra>
- e = Expected verb at position 4

Test: The wizard discovers treasure in the cave. <Story>

```
=> <Sentence>
=> <SimpleSentence>
=> <Subject> <VerbPhrase> <Extra>
=> <NounPhrase> <VerbPhrase> <Extra>
=> <Determiner> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
=> "The" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
=> "The" <Noun> <VerbPhrase> <Extra>
=> "The" "wizard" <VerbPhrase> <Extra>
=> "The" "wizard" <VerbPhrase> <Extra>
=> "The" "wizard" <Verb> <Object> <Extra> <Extra>
=> "The" "wizard" "discovers" <Object> <Extra> <Extra>
=> "The" "wizard" "discovers" <NounPhrase> <Extra> <Extra>
=> "The" "wizard" "discovers" <Noun> <Extra> <Extra>
=> "The" "wizard" "discovers" "treasure" <Extra> <Extra>
=> "The" "wizard" "discovers" "treasure" <Extra>
```

e = e = in the cave.

Test: The princess holds the sword quickly. <Story> => <Sentence> => <SimpleSentence> => <Subject> <VerbPhrase> <Extra> => <NounPhrase> <VerbPhrase> <Extra> => <Determiner> <AdjectiveList> <Noun> <VerbPhrase> <Extra> => "The" <AdjectiveList> <Noun> <VerbPhrase> <Extra> => "The" <Noun> <VerbPhrase> <Extra> => "The" "princess" <VerbPhrase> <Extra> => "The" "princess" <Verb> <Object> <Extra> <Extra> => "The" "princess" "holds" <Object> <Extra> <Extra> => "The" "princess" "holds" <NounPhrase> <Extra> <Extra> => "The" "princess" "holds" <Determiner> <AdjectiveList> <Noun> <Extra> <Extra> => "The" "princess" "holds" "the" <AdjectiveList> <Noun> <Extra> <Extra> => "The" "princess" "holds" "the" <Noun> <Extra> <Extra> => "The" "princess" "holds" "the" "sword" <Extra> <Extra> => "The" "princess" "holds" "the" "sword" <Adverbial> <Extra> => "The" "princess" "holds" "the" "sword" "quickly" <Extra> => "The" "princess" "holds" "the" "sword" "quickly" e = e = .

Test: The brave knight protects the wizard quickly

<Story>

- => <Sentence>
- => <SimpleSentence>
- => <Subject> <VerbPhrase> <Extra>
- => <NounPhrase> <VerbPhrase> <Extra>
- => <Determiner> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" <Adjective> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" "brave" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" "brave" <Noun> <VerbPhrase> <Extra>
- => "The" "brave" "knight" <VerbPhrase> <Extra>
- => "The" "brave" "knight" <Verb> <Object> <Extra> <Extra>
- => "The" "brave" "knight" "protects" <Object> <Extra> <Extra>
- => "The" "brave" "knight" "protects" <NounPhrase> <Extra> <Extra>
- => "The" "brave" "knight" "protects" <Determiner> <AdjectiveList> <Noun> <Extra> <Extra>
- => "The" "brave" "knight" "protects" "the" <AdjectiveList> <Noun> <Extra> <Extra>
- => "The" "brave" "knight" "protects" "the" <Noun> <Extra> <Extra>
- => "The" "brave" "knight" "protects" "the" "wizard" <Extra> <Extra>
- => "The" "brave" "knight" "protects" "the" "wizard" <Adverbial> <Extra>
- => "The" "brave" "knight" "protects" "the" "wizard" "quickly" <Extra>
- => "The" "brave" "knight" "protects" "the" "wizard" "quickly"

Test: The brave hero fights THE dragon in the dark forest <Story>

- => <Sentence>
- => <SimpleSentence>
- => <Subject> <VerbPhrase> <Extra>
- => <NounPhrase> <VerbPhrase> <Extra>
- => <Determiner> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" <Adjective> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" "brave" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" "brave" <Noun> <VerbPhrase> <Extra>
- => "The" "brave" "hero" <VerbPhrase> <Extra>
- => "The" "brave" "hero" <Verb> <Object> <Extra> <Extra>
- => "The" "brave" "hero" "fights" <Object> <Extra> <Extra>
- => "The" "brave" "hero" "fights" <NounPhrase> <Extra> <Extra>
- => "The" "brave" "hero" "fights" <Determiner> <AdjectiveList> <Noun> <Extra> <Extra>
- => "The" "brave" "hero" "fights" "THE" <AdjectiveList> <Noun> <Extra> <Extra>
- => "The" "brave" "hero" "fights" "THE" <Noun> <Extra> <Extra>
- => "The" "brave" "hero" "fights" "THE" "dragon" <Extra> <Extra>
- => "The" "brave" "hero" "fights" "THE" "dragon" <Location> <Extra>

- => "The" "brave" "hero" "fights" "THE" "dragon" "in the dark forest" <Extra>
- => "The" "brave" "hero" "fights" "THE" "dragon" "in the dark forest"

Test: Hello, World!

- <Story>
- => <Sentence>
- => <SimpleSentence>
- => <Subject> <VerbPhrase> <Extra>
- => <NounPhrase> <VerbPhrase> <Extra>
- e = Expected noun phrase at position 0

Test: Viva Mapua

- <Story>
- => <Sentence>
- => <SimpleSentence>
- => <Subject> <VerbPhrase> <Extra>
- => <NounPhrase> <VerbPhrase> <Extra>
- e = Expected noun phrase at position 0

Test: The Brave Viva Mapua

- <Story>
- => <Sentence>
- => <SimpleSentence>
- => <Subject> <VerbPhrase> <Extra>
- => <NounPhrase> <VerbPhrase> <Extra>
- => <Determiner> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" <Adjective> <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" "Brave" <AdjectiveList> <Noun> <VerbPhrase> <Extra>
- => "The" "Brave" <Noun> <VerbPhrase> <Extra>
- => "The" "Brave" "Viva" < VerbPhrase > < Extra>
- e = Expected verb at position 3