

Problem

Adult Illiteracy

A large proportion of adults living in the United States cannot read or read at an appropriate level.

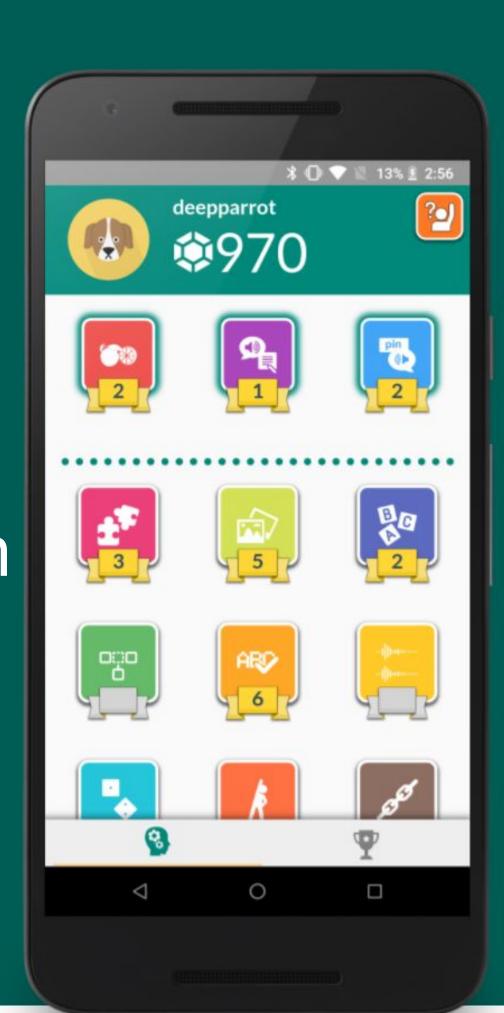
Implications

Lacking basic reading skills can exclude these adults from social interactions and limit their job opportunities. As a result, these adults are trapped in poverty.

CAPITAL

Comprehension and Pronunciation Instructional Tools for Adult Learners

- Reading
- Spelling
- Pronunciation
- Phonetics



CAPITAL - The End of Adult Illiteracy

Ben Hess, Terrance Taubes

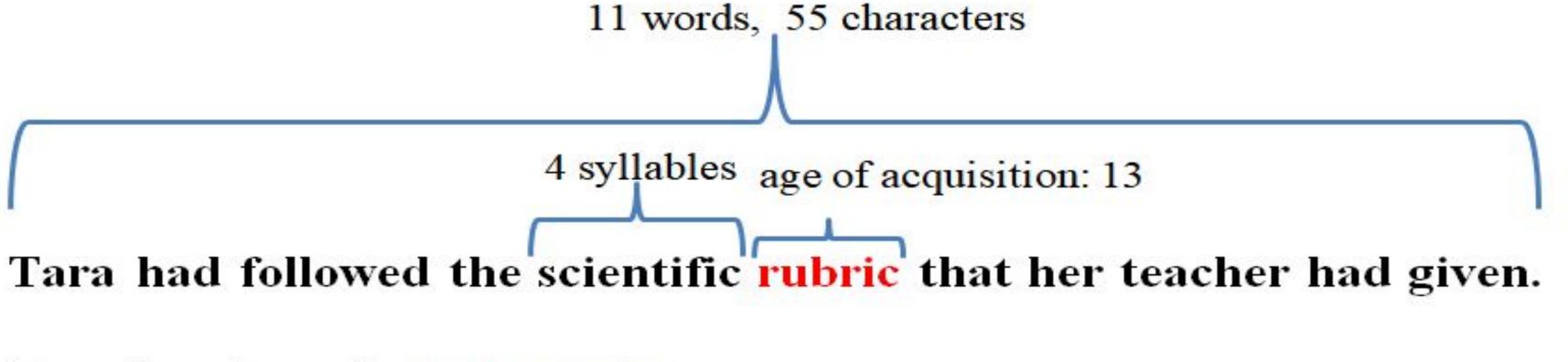
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Objective

To expand on the functionality of the CAPITAL application by implementing new modules for:

→ Passage Simplification → Comprehension Question Generation

Passage Simplification



Reading Level: 3rd grade



Replacements for rubric: {glossary, guide, outline}

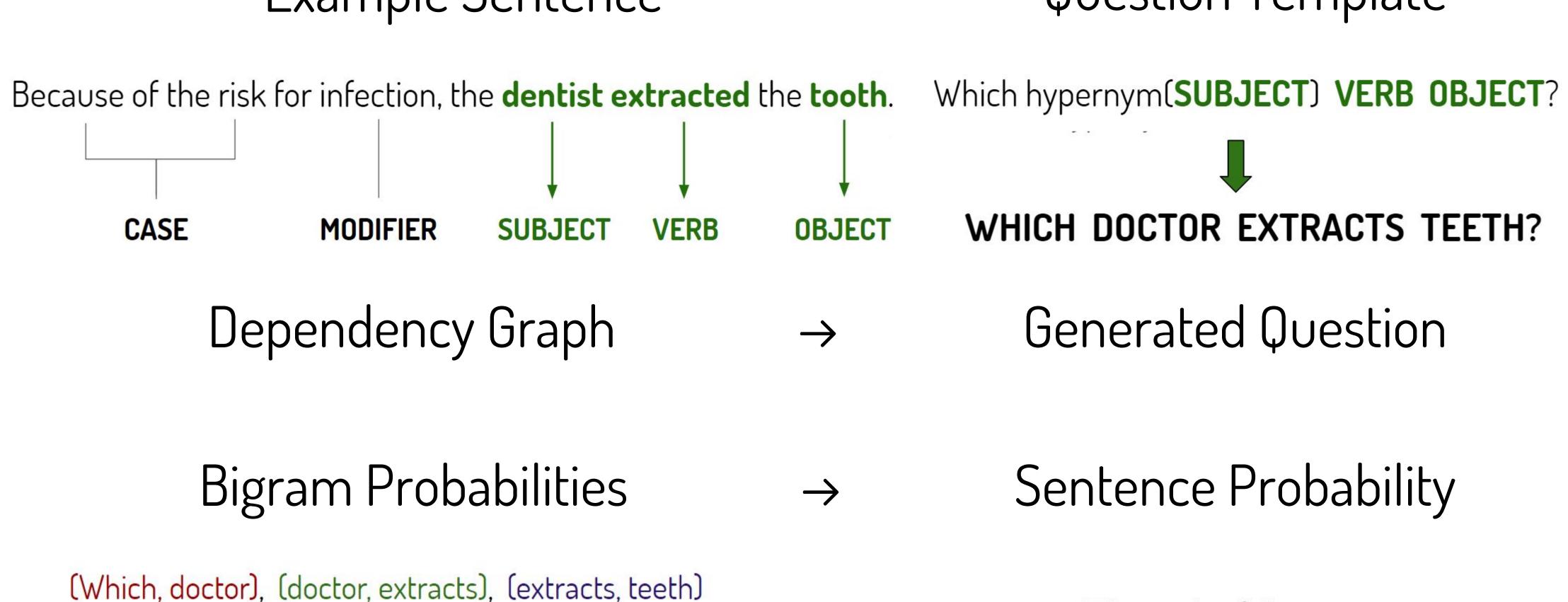
Tara had followed the scientific outline that her teacher had given.

age of acquisition: 8

Comprehension Question Generation

Example Sentence

Question Template



0.001299

> Threshold

Question is Valid

School of Engineering & Applied Science THE GEORGE WASHINGTON UNIVERSITY

Impact

Flexible Coursework

The automatic generation of questions using our algorithms allows for teachers to create individualized coursework with the material of their choosing!

Gamification

The gamification of the app enhances user retention and facilitates friendly competition!

Eliminate Stigma from Illiteracy

The ease of completing coursework from any location with complete anonymity helps motivate adults to begin learning!

A Brighter Future for All

A future with less illiteracy means a more capable, more productive workforce and community!

Future Work

- Sentence restructuring for simplification
- More complex questions types
- Implement coreferencing in question generation
- Develop a more robust validator using Google NGrams