

GLANCE Visualizes Lexical Phenomena for Language Learning

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Background

Facilitating vocabulary knowledge is a challenging aspect for language learners. Although current corpus-based reference tools provide authentic contextual clues, the plain text format is not conducive to fully illustrating some lexical phenomena.

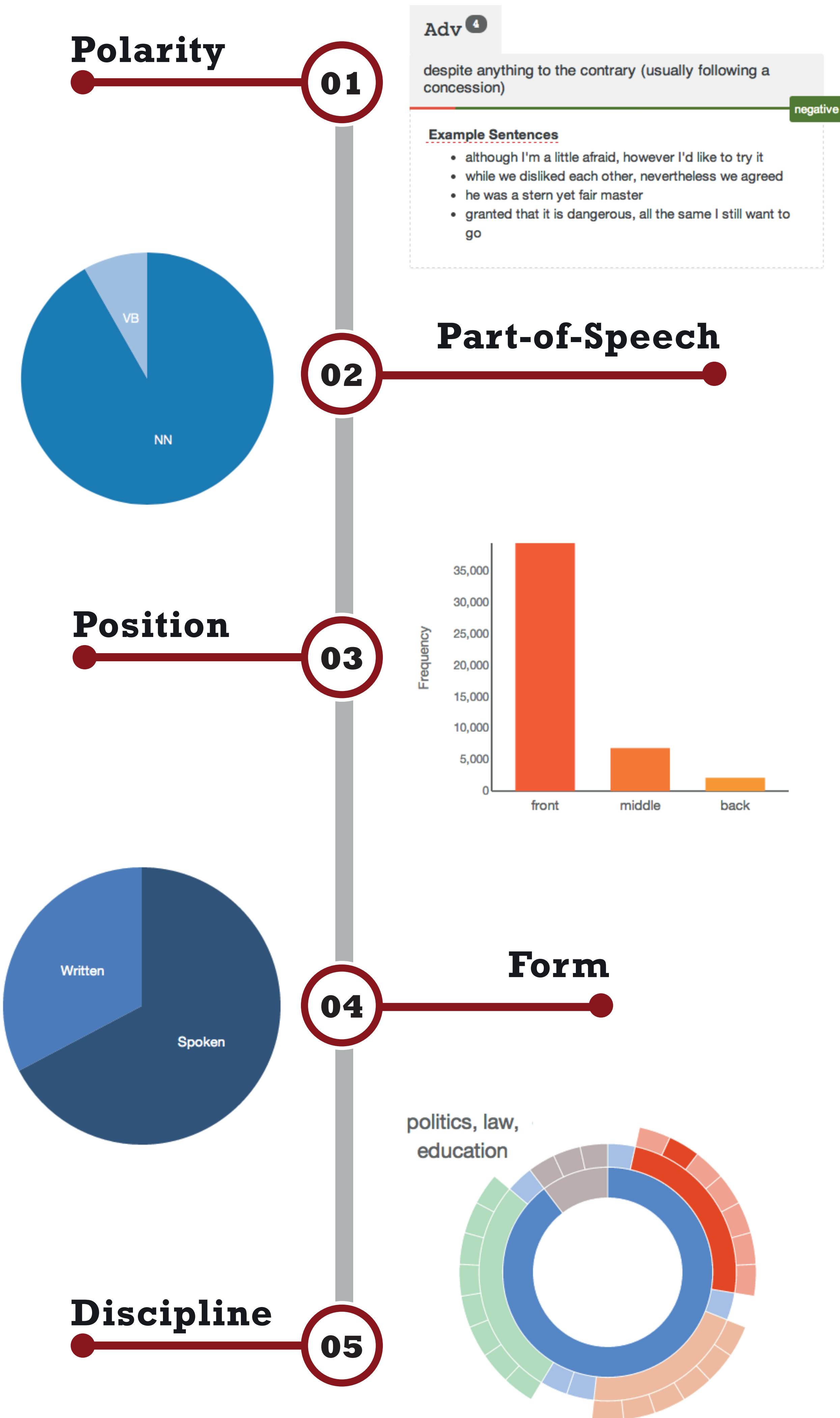
Purpose

A text visualization tool could present a large amount of lexical phenomena using charts and graphs, aimed at helping language learners understand a word quickly and intuitively.

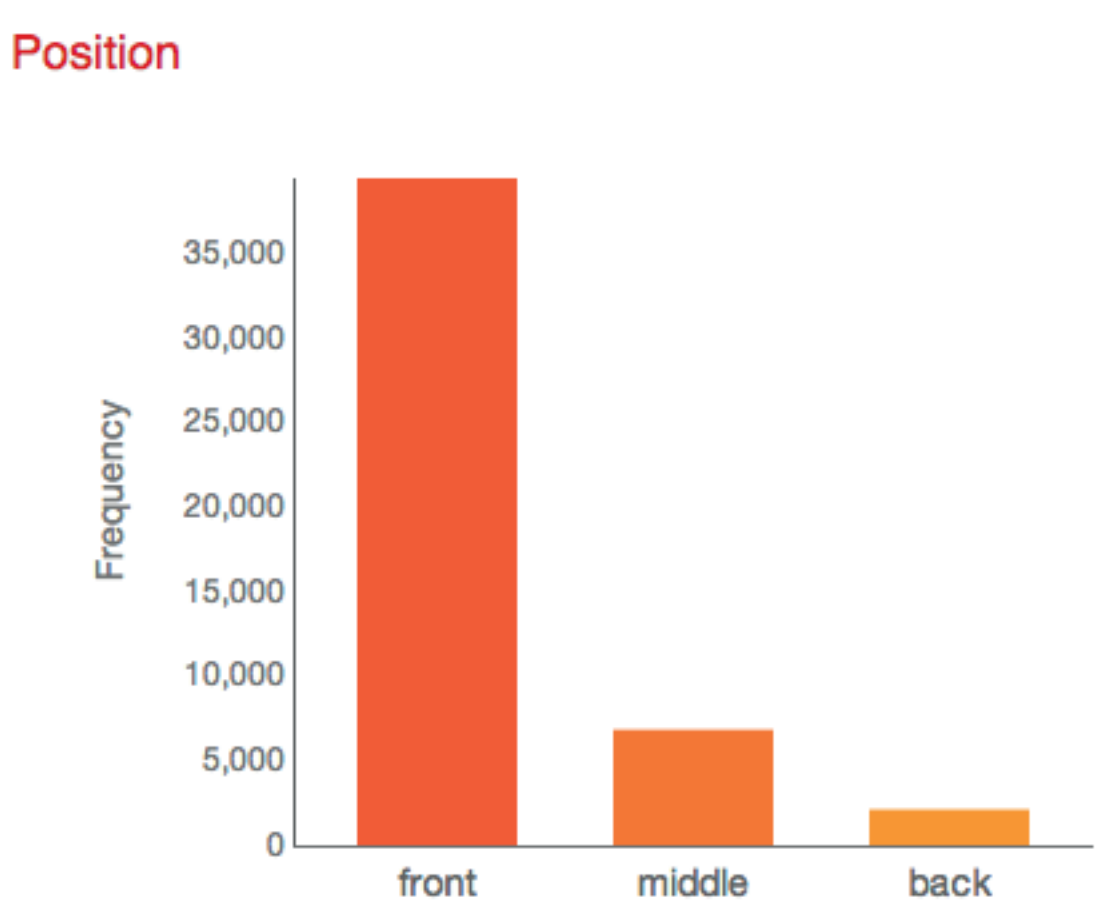
The system

We focused on five types of lexical phenomena. Given a single query word, the GLANCE system shows graphical representations of its lexical phenomena sequentially within a single web page.

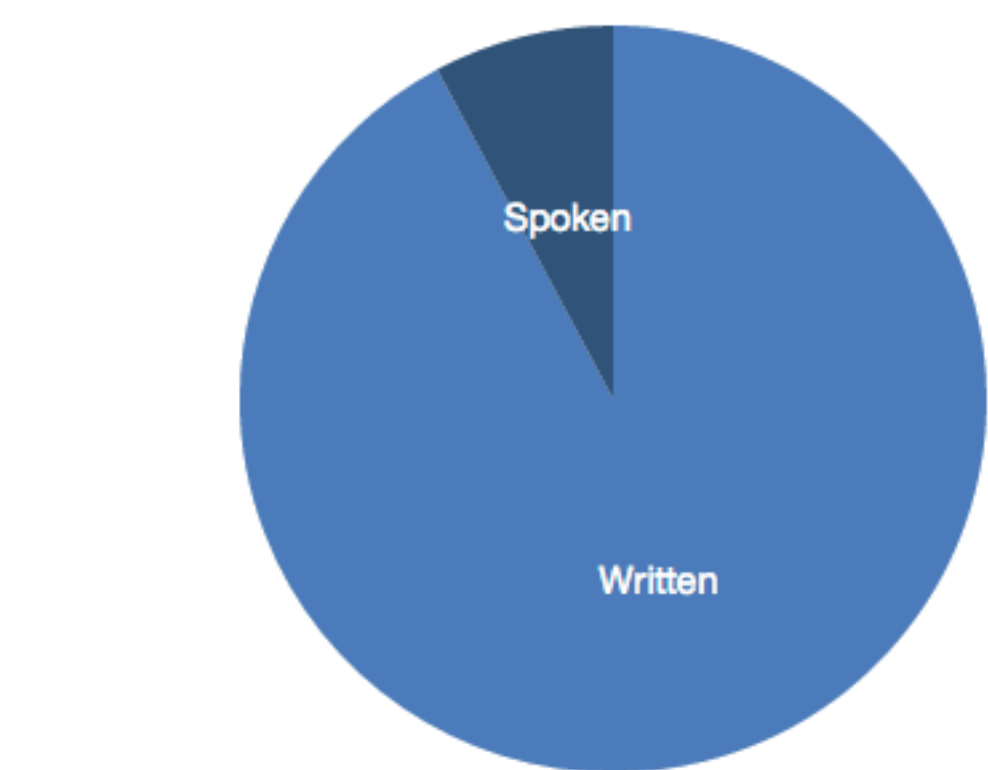
Importantly, GLANCE allows two words input, and draws the individual representative graphs for both words and presents these graphs in a two-column view to help learners differentiate the two words for comparison.



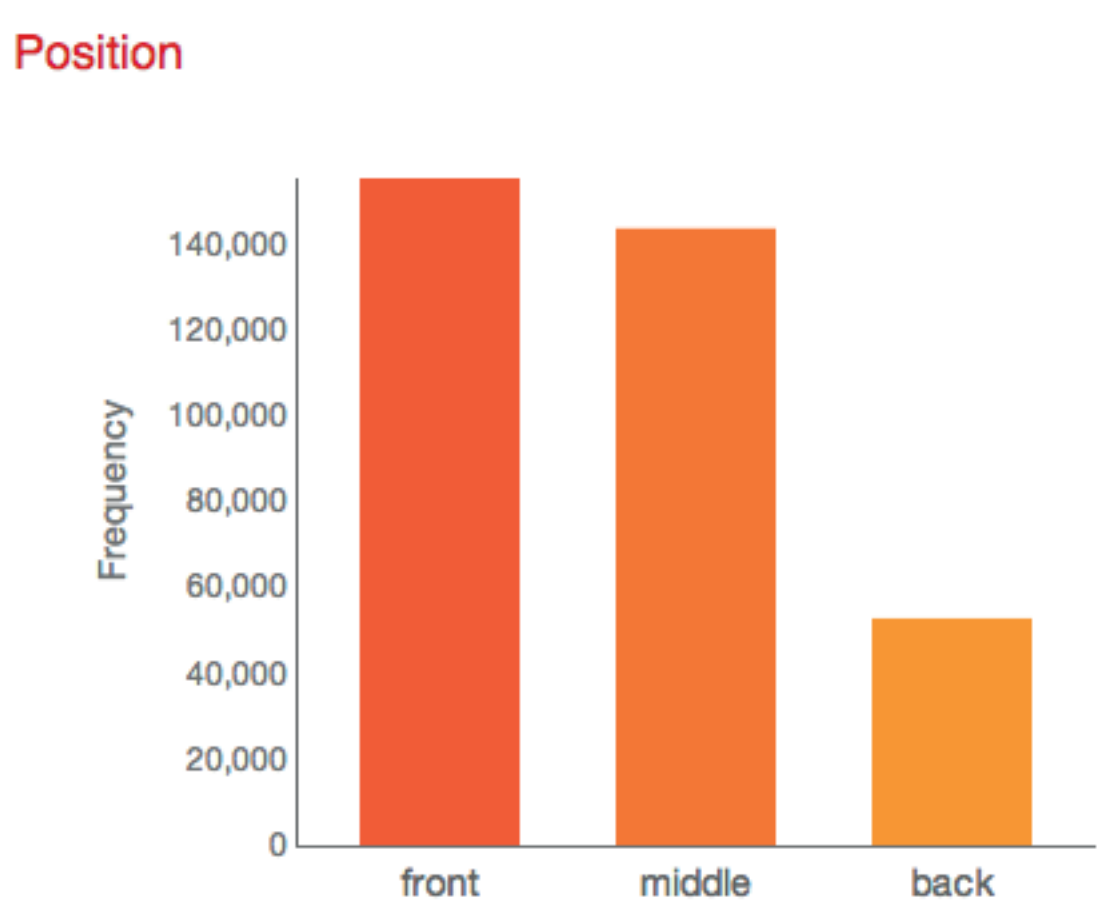
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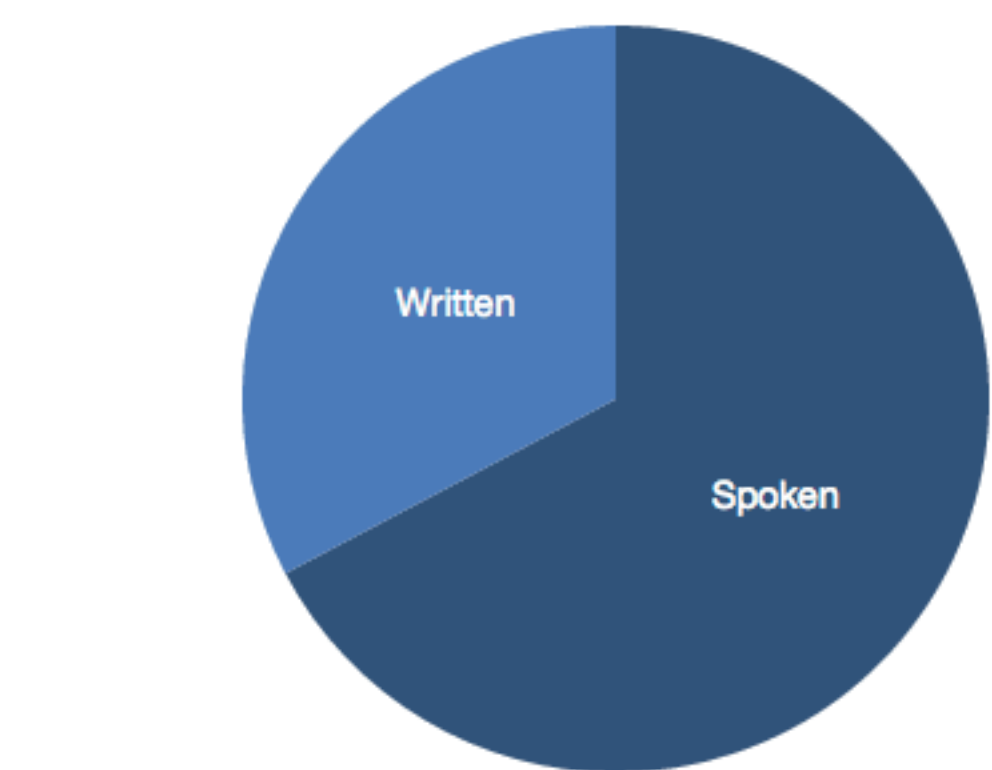
Form



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Form

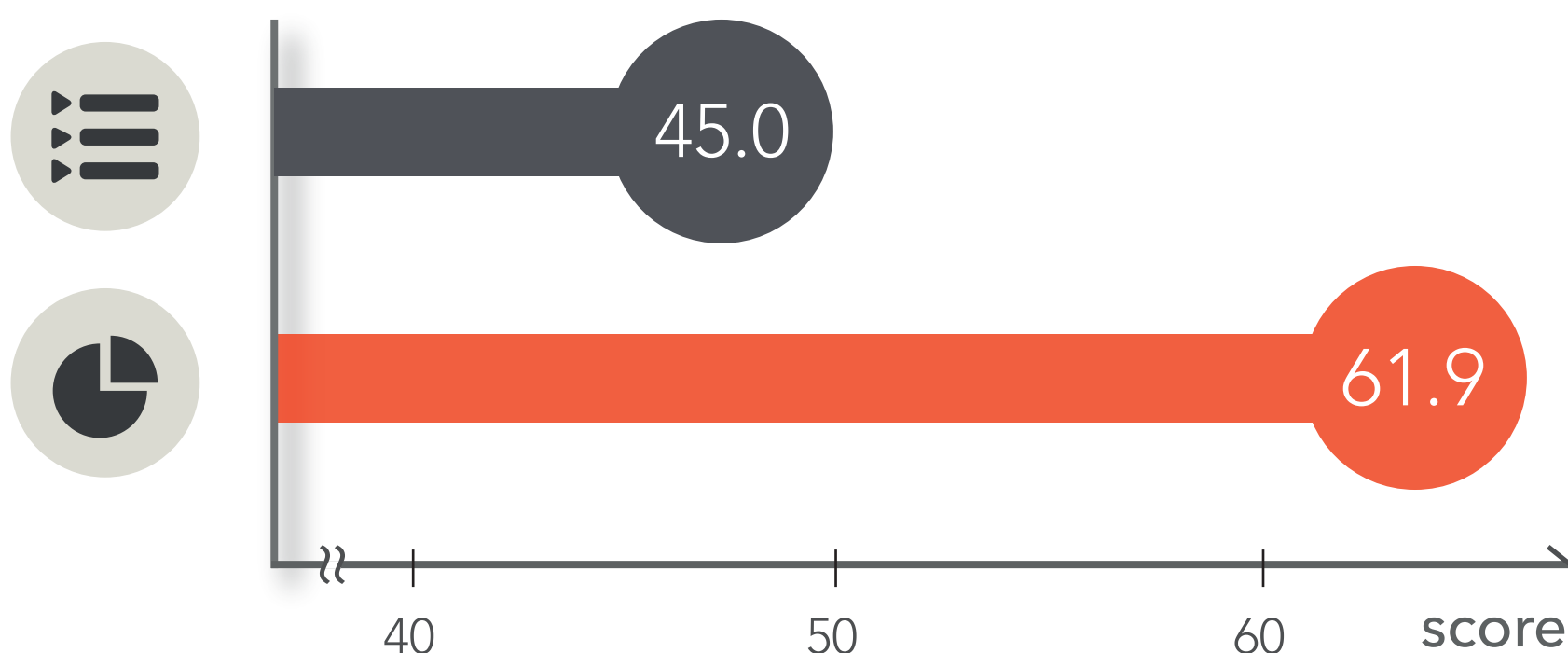


Comparison Mode

Evaluation

We designed interfaces to allow comparison between text and graphics presentation, and conducted a preliminary user study with ESL students.

Students achieved the average score 61.9 and 45.0 out of 100 after consulting the graphic interface and textual interface respectively.



Just glance at it!



glance-it.herokuapp.com