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Abubaker, Azza, Lu, Joan and Wilkinson, Julie

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Measuring typographical variables in Arabic script in Reading

Research Aim

The aim behind examines the factors that influence reading is to provide a standard that help interface designer to design an interface to make user feel comfortable and work efficiently.

Research Hypotheses

H1: A negative effect between font size and using vowels in Arabic text exists.
H2: A negative correlation between font size and reading time exists.
H3: A negative correlation between using metaphor of paper and legibility display to the text onscreen is available.

Research objects

- To build up an e-reading strategy based on users’ cognitive and behaviour processes.
- To define the typographical variables that effect reading Arabic text from screen.
- To compare the variables that affect the legibility of Arabic text with other language such as English language and Chinese language.
- To examine in depth the challenges of reading Arabic e-text.
- To study the efficiency of Arabic text reading and the related factors which impact the efficiency of text reading comprehension.

Research Methodology

Reading process

Model of reading process for school book for two versions.

Example of Arabic font Used in the Experiment

This letter has two dots, in this size is difficult to recognised dots in some Arabic letters.

The width & the long of the words differ between the most language

Research findings

Vision tracker will use to track precisely what a person is looking at.

Also, it will be used to investigate the phonological processes used by proficient reader while reading sentences for comprehension during reading Arabic.

future work

prepared by: AZZA A. Abubaker
supervisors: Joan Lu & Julie Wilkinson
Computing & Engineering School