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Investigation effective factors into reading online arabic textbook for learning by children age 9 to 12

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Research problem

Defining the next line is so difficult,

Browsing the text is so hard specially when moving from window to window

How could I deal with e-school book??????

Investigation effective factors into reading online Arabic textbook for learning by children age 9 to 12”

Research focus

Experiment (1)
Reading process

Sample size

20 + 20 = 40

- Reading process changes according to the reading purpose and type of recourse
- Reading process effect by the type of material & the aim of using the material.
- Reading action & interaction changes in each version of school book [e-book & paper book].
- students usually use two strategies when reading a school book: scanning and comprehension reading strategies. Each strategy requires specific tools and techniques.

Research problem

I can’t read this text the characters is to small & I cannot distinction the letter that has dot

Research focus

how could I deal with e-school book??????

Sample size

20 + 20 = 40

Experiment (2)
Font size & type

15 + 15 = 30

- The legible font should be able to show the difference between dots and the vowels.
- The effects of character size on participants’ were more significant than characters type in Arabic language.
- reading speed is generally slower in font size 14 and 16 as well in 10 between the low reading groups, especially in age 10.
- font size 14 and 16 is readable for reader age 12 and over and can be used to display Arabic text form screen.

Sample size

15 + 15 = 30

Experiment (3)
Line length

- Older students (11 to 13 year old) are faster when skimming double column, while, student age 9 are batter in single column.
- Younger students are due back the slow in reading text display on screen in double column to difficulty of scrolling the text where their experience in using computer tool especially mouse was weak.
- Designer should avoid scrolling through online text.

Aim

Reading process of e-school book

Observation

How are student interact with school book in e-version?

Method

Sample size

20 + 20 = 40

Observation

What optimal font size to read Arabic text from screen?

RQ

Observation

What optimal line length for reading Arabic text from screen?

Findings

Recommendations: designers should take into their account the following points when defining the optimal font size:

- Identify reader skill based on age and education level as first step for designing e-text.
- Create a way increases the ability to focus vision when moving from one line to another.
- Reading online influenced by several of factors such as readers’ age and education level.

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