



Bibliography Review

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Project Description-Goals

- better spatial representation for reading digital documents on a computer screen.
- Can a better spatial layout be delivered?
- by understanding why spreading paper out in front of you is better than having it spread out on a screen.
- Why is this worth doing?
- It will help us design better applications for reading of digital documents on a computer screen.



Project Description

- Experimental Design
- 10 subjects per cell
- No training
- No cross –referencing
- Within subject study
- Each subject will be given the same set of task
- And the same document to avoid (one document being more difficult to obtain info from)



Experimental Design

	Paper	Digital
Bound	Stapled document	Linear document (no searching)
Unbound	A specified Spatial layout on a desk	Acrobat With same spatial layout



Previous Work

- Reading from paper versus screens: A critical review of the empirical literature-Andrew Dillon
- A comparison of Reading paper documents and on-line documents- Kenton O'hara
- Fixed or Fluid: Document Stability and New Media –David Levy
- Reading and understanding a science report through paper and hypertext



Previous Work

- Hypermedia and Reading Comprehension-David Crow



Inadequacy?

- The papers address the spatial representation of reading physical paper versus digital paper but not w/multiple screens.
- The papers report the differences between paper and digital media(my attempt is to address one of those differences)



Inadequacy?

- Only speed and accuracy measured(perhaps to limiting)
- Possible to investigate other factors for reading(fatigue, preference, and comprehension)
- Task employed(proofreading) –normal reading



Improvement on previous contributions

- None truly address the spatial layout of paper/cross document reading
- Address text splitting across screens but not presenting pages across multiple screens (use of multiple screens for pages at a time, no lengthy text)
- Not clear how variables are controlled - attempt to clearly control variables