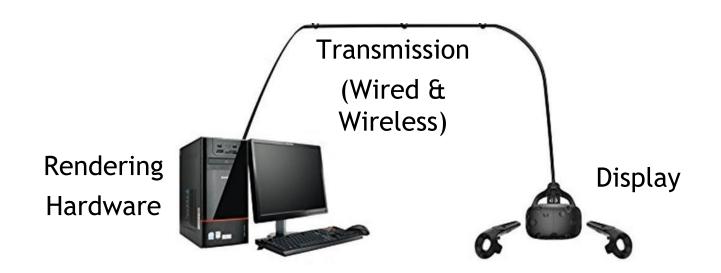


GAZE-CONTINGENT DISPLAY (GCD) IS A USEFUL STRATEGY

It can be costly, impractical, or even impossible to display high-fidelity content everywhere

GCD limits resources where they aren't necessary





TEXT-LIKE CONTENT IS UBIQUITOUS AND PROBLEMATIC

Many types of gaze-contingent content include text

Text is both <u>high contrast</u> and <u>high spatial frequency</u>

Augmented reality



Gaming



Virtual reality



Virtual workstation



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DOES GCD NEGATIVELY IMPACT READING?

Experiment design:

- Timed reading of short (40-60 word) text passages (Flesch-Kincaid difficulty of 4th-10th grade)
- 4 Fovea Sizes × 2 Kernel Sizes × 2 Text Sizes
- Word recognition question after each trial (90.6% avg pct. correct)
- Baseline speed (no GCD) recorded at the beginning of the experiment
- 17 subjects (13 Men, 4 Women, Ages 19-56)
- 8K Desktop Monitor (60 Hz) + EyeLink 1000+ Eye Tracker (250 Hz)
- 20 ms total motion-to-photon latency



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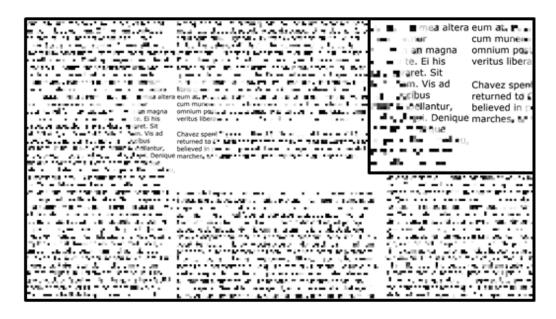
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Large Kernel Size

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HUGE VARIABILITY ACROSS SUBJECTS

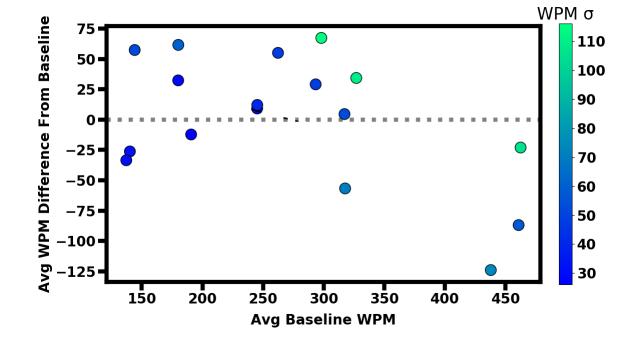
Large variability in reading speeds (Words Per Minute)

- Baseline (150 to 450 WPM)
- Differential (-123 to +67 WPM)

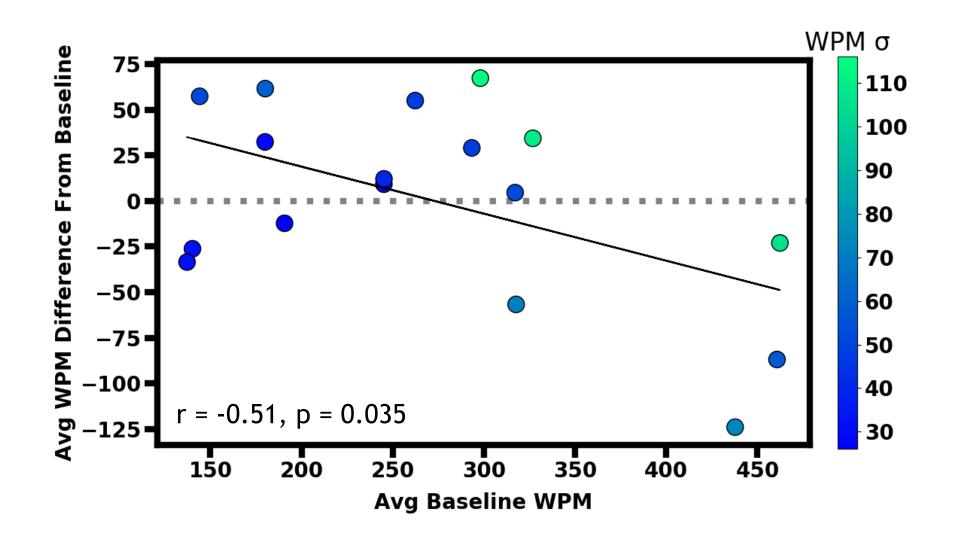
No significant correlations between differential reading speed and:

- Age
- Gender
- Glasses

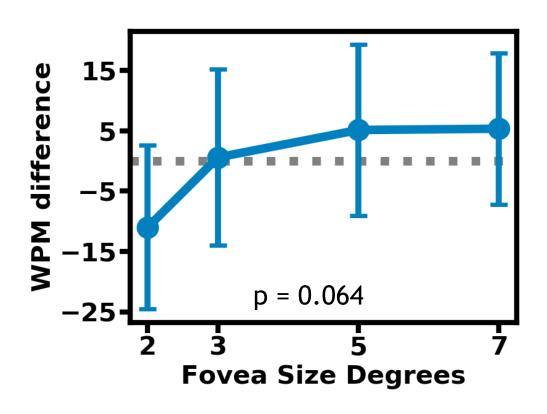
- Fluency
- Task performance

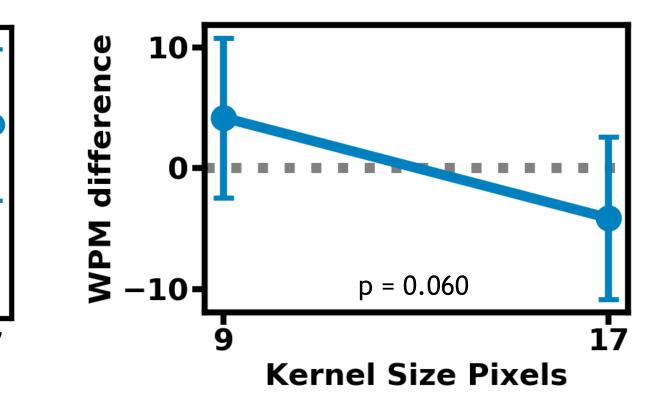


FASTER READERS ARE MORE NEGATIVELY IMPACTED



NON-SIGNIFICANT TRENDS FOR FOVEA SIZE & KERNEL SIZE





CAVEATS & LIMITATIONS

- Small subject pool
- Complex and/or differential practice effects
- Only one type of reading (vs. notifications, longer prose, HUD info, etc)

FUTURE WORK

- Balanced study with more fast readers
- Focus on improvement in some subjects (focus aid?)
- Other tasks (e.g. visual search with text, navigating text interfaces)

Text passages will be posted online

We are happy to provide collaboration and advice



