Assisted Reading

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Interaction Engineering
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Project Motivation

- To test improvement on reading focus and efficiency.
- Make reading effortless.
- E readers and online papers/studies.
Related Work


- The reading assistant: eye gaze triggered auditory prompting for reading Remediation (Sibert and Gokturk).
Interaction Techniques

- Gaze text highlighting.
- Gaze page scrolling.
- Button/trigger gaze scrolling.
# User Tests

*Users were asked to rate each feature from 1-5*

<table>
<thead>
<tr>
<th>Test Feature</th>
<th>Text Highlighting</th>
<th>Button Scrolling</th>
<th>Dynamic Gaze Scrolling</th>
<th>Overall Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>User 1</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>“The text highlighting isn’t annoying but I would prefer reading without it”</td>
</tr>
<tr>
<td>User 2</td>
<td>3</td>
<td>4</td>
<td>2</td>
<td>“I think the dynamic gaze scrolling is great but the button gaze is too fast”</td>
</tr>
</tbody>
</table>
Technical Setup

- Tobii Eye Tracker 4C.
- Windows.
- Processing.
Prototype Demonstration