Does expertise and full-page view when reading comics improve understanding?

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INTRODUCTION

- Cohn (2013) found that readers generally follow a Z-path while reading comics.
- Mikkonen & Lautenbacher (2019) discovered that readers use both global and local attention scales when reading comics.
- Expertise was found to modulate the ability to understand comics.
- Zhao & Mahrt (2018) demonstrated that advanced readers have shorter eye fixations while reading comics.
- The study aimed to investigate the influence of expertise and different reading scales on comprehension and reading time in comics.

METHODE

- 2 digitalized comics excerpts
- 60 participants
- 3 reading scales:
  - One panel at a time
  - Two sequential full-page read
  - Two full-page available at once
- Measurements:
  - Visual Language Fluency Index (VLFI; Cohn, 2014)
  - Score of understanding
  - Reading time

RESULTS

- Higher level of expertise is associated with a faster reading time ($F(1,54) = 6.76; p < 0.05$) and a better comprehension ($F(1,54) = 13.17; p < 0.05$) for “V for Vendetta” and with a better comprehension for “The Two Lives of Penelope” ($F(1,54)=7.80; p < 0.05$).
- However, we found no effect of the three reading scales regardless of the comics book excerpt and the performance metric.

DISCUSSION

- Standardizing VLFI as a tool for assessing expertise in comics would aid researchers in quantifying expertise more easily.
- Further research is needed with a wider range of comics and improved control of aesthetic and narrative styles to draw broader conclusions on the impact of visual design on comic reading experience.
- The study’s findings offer valuable insights for creators, editors, teachers, and researchers seeking to enhance the reading experience of comics.

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REFERENCES