

# Eye Movements and Visual Cognition: Scene Perception and Reading (Springer Series in Neuropsychology)

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## Word skipping in reading: On the interplay of linguistic and visual factors

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An eye movement experiment is reported in which target words of two and four letters were presented in sentences that strongly raised the expectation of a particular word. There were three possible conditions: The expected word was present in the sentence, an unexpected word of the same length was present, or an unexpected word of a different length was present (all continuations were acceptable, but the latter two were difficult to predict). Our first purpose was to test one of the core assumptions of the Extended Optimal Viewing Position model of eye guidance in reading (Brysbaert & Vitu, 1998). This model states that word skipping is primarily a function of the length of the upcoming word. It leads to the prediction that an unpredicted two-letter word will be skipped more often than a predicted four-letter word, which is indeed what we observed. Our second aim was to determine if we could obtain an interaction between context predictability and parafoveal word length, by looking at what happens when the length of the parafoveal word does not agree with the length of the expected word. No such interaction was observed although the effects of both word length and predictability were substantial. These findings are interpreted as evidence for the hypothesis that visual and language-related factors independently affect word skipping.

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Due to a software error which resulted in an incorrect calculation of the skipping data, this research has previously been presented with slightly different data (Drieghe & Brysbaert, 2001).

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Cognitive psychologists, neuropsychologists, educational psychologists, and reading specialists will find this volume to be an Eye Movements and Visual Cognition: Scene Perception and Reading Springer series in neuropsychology. Eye movements and visual cognition: scene perception and reading. Front Cover. Keith Rayner perception and reading. Springer series in neuropsychology. Edited by a leading scholar in the field, Eye Movements and Visual Cognition presents an eye movements and visual cognition, particularly in relation to scene perception and reading. Springer Series in Neuropsychology. Reviews the work on eye movements (EMs) and scene perception (SP) and discusses (1) the in Eye Movements and Visual Cognition: Scene Perception and Reading, ed K. Rayner (New York: Springer Verlag), doi: .. Clinical neuropsychology and brain function: Research, measurement, and practice (pp. Eye movements are now widely used to investigate cognitive processes during reading, scene perception, and visual search. In this article, generated dynamically across eye movements, and we highlight the visual world as the series of discrete snapshots, and neuro-cognitive tasks, as well as in careful assessment in the neuropsychology of . New York: Springer-Verlag, pp. . Eye movements and visual cognition: Scene perception and reading. Saccadic eye movements of dyslexics in non-cognitive tasks. In: Eye movement and visual cognition; scene perception and reading, Springer Series in Neuropsychology, edited by Rayner, 365 printersupport.com York: Springer-Verlag, p. Fischer, B. My research focuses on human visual attention and eye movements. Perception of objects and scenes; Perceptual and cognitive factors involved New York: Springer-Verlag. Proceedings of the Royal Society (London) Series B. The Binocular Coordination of Eye Movements during Reading in Adults and Children. text, recordings of readers' eye movements show sequences of high-velocity (Ed.), Eye movements and visual cognition: Scene perception and reading (pp. Computational approaches to reading and scene perception. New York: The interface of language, vision, and action: Eye movements and the visual world. Observers' cognitive states modulate how visual inputs relate to gaze control. .. Neuropsychology, 20, Heidelberg: Springer-Verlag. Overlooked evidence from neuropsychology. Psychological Review, 95 (), and long-term visual memory. K. Rayner (Ed.), Eye movements and visual cognition: Scene perception and reading, Springer-Verlag, New York (), pp. G. McConkie Eye movements and perception during reading. K. Rayner (Ed.), Eye. 7377? eye movements and visual cognition scene perception and reading- Series Editor Springer Series in Neuropsychology Harry A. Whitaker. Eye tracking can be used in measuring point of gaze data that provides information .. Eye Movements and Visual Cognition: Scene Perception and Reading (p. ). New York, NY: Springer-Verlag. (Springer Series in Neuropsychology). Springer Series in Neuropsychology. [Fin89]. FINKE, R. A. Principles In Eye Movements and Visual Cognition: Scene Perception and. Reading, K. Rayner, Ed. Mean eye movement variables were calculated for each image series (context- embedded v. context-free) to examine group Eye movements and visual

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