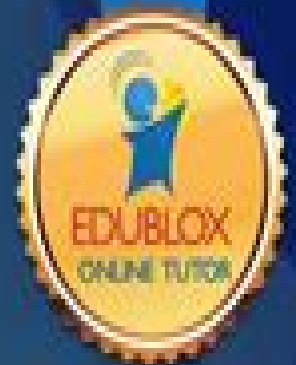


# Eye movements in reading



A poor reader will be inclined to pause more often for fixations.

The duration of each fixation will also be longer.

Another difference lies in regressive movements.

Proponents of the phonological deficit theory believe that eye movement abnormalities seen in dyslexics are attributable to their language problems.

Other disagree as they found poor fixation control in dyslexics with or without poor phonological ability.

# Eye Movements In Reading

**JE Gale**



## **Eye Movements In Reading:**

**Eye Movements in Reading** Keith Rayner, 2012-12-02 Eye Movements in Reading Perceptual and Language Processes focuses on eye movement and cognitive processes as a way to study the reading process This book also discusses the different aspects of reading Organized into seven parts encompassing 26 chapters this book begins with a discussion on the perceptual and psychophysical factors essential to eye movement during reading This book then explains how some psychophysical factors such as type size and masking affect the reading performance Other chapters consider the role of transient and sustained cells as well as their possible effects on reading This text also examines the size of the perceptual span in reading and the integration of information across eye movement Finally this book explains the eye movement abnormalities general eye movement parameters and the cognitive processes within the reading disabled group This book is a valuable resource to optometrists scientists field researchers and readers who are interested in the reading process

*Eye Movements in Reading Strategies* Christiane Wotschack, 2009 Throughout its empirical research history eye movement research has always been aware of the differences in reading behavior induced by individual differences and task demands This work introduces a novel comprehensive concept of reading strategy comprising individual differences in reading style and reading skill as well as reader goals In a series of sentence reading experiments recording eye movements the influence of reading strategies on reader and word level effects assuming distributed processing has been investigated Results provide evidence for strategic top down influences on eye movement control that extend our understanding of eye guidance in reading

**Eye Movements in Reading** Jan Ygge, Gunnar Lennerstrand, 1994-01-01 Hardbound Eye movements during reading were first described by the French ophthalmologist Emilo Javal in the late 19th century He reported that eyes do not move continuously along a line of text but make short rapid movements saccades intermingled with short stops fixations Javal's observations were based on visual observation only but today more sophisticated registration devices with which to study eye movements exist New techniques have enabled researchers to identify differences between eye movements during reading eye movements in response to suddenly appearing visual stimuli and scanning eye movements This information is especially valuable in the study of dyslexia a handicap estimated to affect up to 8% of the population of the western hemisphere This volume is based on a symposium held to draw together the knowledge available on modern techniques for eye movement recordings The edited chapters provide a valuable up to date account

*Eye Guidance in Reading and Scene Perception* G. Underwood, 1998-07-16 The distinguished contributors to this volume have been set the problem of describing how we know where to move our eyes There is a great deal of current interest in the use of eye movement recordings to investigate various mental processes The common theme is that variations in eye movements indicate variations in the processing of what is being perceived whether in reading driving or scene perception However a number of problems of interpretation are now emerging and this edited volume sets out to address these problems The book

investigates controversies concerning the variations in eye movements associated with reading ability concerning the extent to which text is used by the guidance mechanism while reading concerning the relationship between eye movements and the control of other body movements the relationship between what is inspected and what is perceived and concerning the role of visual control attention in the acquisition of complex perceptual motor skills in addition to the nature of the guidance mechanism itself The origins of the volume are in discussions held at a meeting of the European Society for Cognitive Psychology ESCOP that was held in Wurzburg in September 1996 The discussions concerned the landing effect in reading an effect that if substantiated would provide evidence of the use of parafoveal information in eye guidance and these discussions were explored in more detail at a small meeting in Chamonix in February 1997 Many of the contributors to this volume were present at the meeting but the arguments were not resolved in Chamonix either Other leaders in the field were invited to contribute to the discussion and this volume is the product The argument remains unresolved but the problem is certainly clearer

*Eye Movements in Reading as Rational Behavior* Klinton Bicknell, 2011 Moving one's eyes while reading is one of the most complex everyday tasks humans face To perform efficiently readers must make decisions about when and where to move their eyes every 200-300ms Over the past decades it has been demonstrated that these fine grained decisions are influenced by a range of linguistic properties of the text and measuring eye movements during reading has become one of the primary methods of studying online sentence comprehension However it is still largely unclear why linguistic variables affect the eye movement record in the ways they do The present work begins to answer this question by presenting a rational framework for understanding eye movement control in reading in which probabilistic language knowledge plays a crucial role Specifically the task of reading is taken to be one of sentence identification readers move their eyes to efficiently obtain visual input which they combine with probabilistic language knowledge through Bayesian inference to yield posterior beliefs about sentence form and structure Simulations with implemented models within this framework demonstrate that it can provide a principled account of many aspects of reading behavior including the influence of a number of linguistic variables In addition the framework suggests a novel explanation for one of the least understood aspects of eye movements in reading regressive eye movements and we present evidence from an eye tracking corpus to support this proposal The dissertation citations contained here are published with the permission of ProQuest llc Further reproduction is prohibited without permission Copies of dissertations may be obtained by Telephone 800 1 800 521 0600 Web page <http://www.proquest.com/en-US/products/dissertations/individuals.shtml>

[The Role of Eye Movements in Reading with an Evaluation of Techniques for Their Improvement](#) Francis Pleasant Robinson, 1933

*Eye Movements and Information Processing During Reading* Ralph Radach, Alan Kennedy, Keith Rayner, 2004 Measurement and analysis of eye movements are two of the most powerful ways to study the workings of the human mind This Special Issue on eye movements and information processing in reading presents an overview of experimental research based on this methodology Eye movements provide a unique opportunity to examine

principles of human information processing in a well structured visual environment while people engage in a natural cognitive task At the same time oculomotor measures can be used as a tool to develop and test psycholinguistic hypotheses about the processing of written language The papers in this issue contribute to both aspects addressing issues that dominate current debates in the field Seen from the angle of visual information processing a major theme is the role played by parafoveal information for different types and levels of processing and for oculomotor control in reading This includes effects of visual and linguistic word properties on the selection of words for fixation and the specification of saccade amplitudes Clearly the most controversial question in this context concerns the allocation of attention with positions ranging from a sequentially moving spotlight to a gradient of spatially distributed processing Related to this is the issue of serial vs parallel word processing and the fundamental question as to what extent the duration of fixations in reading is related to lexical processing Taking a psycholinguistic perspective the topics addressed include several levels of language processing from orthography to pragmatic information in sentence reading New approaches to the study of morphologically complex words are reported together with novel work revealing the complex nature of the apparently accessible but elusive concept of word frequency Other papers reflect current theoretical discussions centered on the development of computational models of the reading process and contribute to the empirical base of these discussions Taken together this collection of papers supplemented by an introduction to the field and a commentary on major issues presents a comprehensive and up to date perspective on a research area currently characterised by numerous theoretical and empirical disputes The papers will be of particular appeal to readers interested in basic and applied psycholinguistics attention and visual perception motor control and the modelling of complex cognitive processes

*Cognitive and Cultural Influences on Eye Movements* Keith Rayner, Deli Shen, Xuejun Bai, Guoli Yan, 2023-05-31 It is well known that cognitive variables influence eye movements during reading To what extent do cultural differences influence eye movements This volume contains chapters that examine these two issues The first half of the volume documents recent research findings with respect to models of eye movement control in reading eye movements and visual processing and eye movements during scene perception search and mental rotation The second half of the volume deals with two main cultural issues eye movements in reading Chinese and cultural influences on eye movements A number of experts provide overviews of their research findings concerning the topics in the five sections of the volume Readers interested in eye movements in reading cognitive influences on eye movements and cultural influences on eye movements will find the chapters valuable reading ISBN 978 7 201 06107 8

*The Role of Eye Movements in Reading with an Evaluation of Techniques for Their Improvement*, by Francis P. Robinson, ... Francis Pleasant Robinson, 1933 [An Experimental Study of Legibility, Perception, and Eye Movement in the Reading of Formulae ...](#) Miles Albert Tinker, 1927 [Methods Manual for Improving Your Eye Movements in Reading](#) Clement Henry Sievers, Bertha Dorothy Brown, 1940 [EYE MOVEMENTS AND THE FUNDAMENTAL READING PROCESS](#) Stanford E. Taylor, 2013-09-01 The purpose of this

book is multifaceted it is primarily dedicated to exploring the nature of the Fundamental Reading Process and to discussing the manner in which proficiency in these basic skills can be evaluated through eye movement recording Major topics include the history of eye movement recording exploring eye movement recording through the use of the Visagraph Eye Movement Recording system uses of eye movements in terms of reading appraisal field use of the Visagraph system by schools clinics and optometrists Visagraph EyeLink comparison in terms of eye movement data and the 2012 Visagraph Norm Study Report Reading and tutoring centers will be very interested in both the diagnostic eye movement recording techniques as well as the web based practice techniques available through computer technology Reading researchers will also be intrigued by the comprehensive description of the silent reading process as well as the effect on the oral reading process with the development of proficiency in silent reading Especially helpful is the information revealed through eye movement recordings about the many subliminal factors involved in the process of reading as well as the changes produced by today s web based computer techniques to modify the basic visual functional perceptual and information processing skills that comprise the silent reading process In addition the book will serve as a resource for graduate courses that cover what occurs during silent reading and what outcomes are possible with current reading practice programs using web based computer technology This unique text is essential reading for all who want to understand the role of the eye in silent reading and want to increase their instructional capability as teachers and remediation specialists

**The Role of Habit in Eye-movements in Reading** Earl Donald Sisson,1938     *Eye Movements in Reading* Stanford Earl Taylor,1963     **Controlled eye movements versus practice exercises in reading** Frederick Lowell Westover,1946     **Predicting Eye Movements in Reading** Peter Dunn-Rankin,University of Hawaii. Department of Information and Computer Science,1986\*     **An Experiment in Improving Eye-movements in Reading** Doris Borgstede,1940     **The Role of Eye Movements in Reading with an Evaluation of Techiques for Their Improvement** Francis Pleasant Robinson,1932     **Observations on Eye Movements During Scanning and Reading** Ashby Christopher Jones,1984     Cognitive and Cultural Influences on Eye Movements,2023 It is well known that cognitive variables influence eye movements during reading To what extent do cultural differences influence eye movements This volume contains chapters that examine these two issues The first half of the volume documents recent research findings with respect to models of eye movement control in reading eye movements and visual processing and eye movements during scene perception search and mental rotation The second half of the volume deals with two main cultural issues eye movements in reading Chinese and cultural influences on eye movements A number of experts provide overviews of their research findings concerning the topics in the five sections of the volume Readers interested in eye movements in reading cognitive influences on eye movements and cultural influences on eye movements will find the chapters valuable reading ISBN 978 7 201 06107 8

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