



Oxford Handbook of Eye Movements (Oxford Library of Psychology)

By *Simon Liversedge, Iain Gilchrist, Stefan Everling*

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In the past few years, there has been an explosion of eye movement research in cognitive science and neuroscience. This has been due to the availability of 'off the shelf' eye trackers, along with software to allow the easy acquisition and analysis of eye movement data. Accompanying this has been a realisation that eye movement data can be informative about many different aspects of perceptual and cognitive processing. Eye movements have been used to examine the visual and cognitive processes underpinning a much broader range of human activities, including, language production, dialogue, human computer interaction, driving behaviour, sporting performance, and emotional states. Finally, in the past thirty years, there have been real advances in our understanding of the neural processes that underpin eye movement behaviour.

The Oxford Handbook of Eye Movements provides the first comprehensive review of the entire field of eye movement research. In over fifty chapters, it reviews the developments that have so far taken place, the areas actively being researched, and looks at how the field is likely to develop in the coming years. The first section considers historical and background material, before moving onto section 2 on the neural basis of eye movements. The third and fourth sections look at visual cognition and eye movements and eye movement pathology and development. The final sections consider eye movements and reading and language processing and eye movements.

Bringing together cutting edge research from an international team of leading psychologists, neuroscientists, and vision researchers, this book is the definitive reference work in this field.

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Review

"Review from other book by this author: . . . Findlay and Gilchrist deliver a book that will function as a good map to any diver looking for hidden treasures in the field of eye movements, search, and attention. This map shows where the different groups of divers are located relative to each other, their working techniques, their goals. All of this is done without overwhelming beginner divers or putting experienced divers to sleep. Now, it is up to the divers themselves to make good use of the book and keep swimming away. Who knows, it might help us find the hidden treasure. If it does indeed exist at all!" --Perception, 33/8

". . . a marvellous and bold book, which, as the authors state, attempts to initiate a paradigm shift. The type of research questions vision scientists ask in 20 years time will only then reveal whether the authors have succeeded." --Applied Cognitive Psychology, 18

About the Author

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