

Philosophy of Psychology

Visual Cognition & Visual Awareness

BASIC READINGS

Introductory Text books:

Vicki Bruce & Patrick Green & Mark Georgeson, *Visual Perception*, 4th Edition, Psychology Press

Stephen M. Kosslyn & Daniel N. Osherson, ed., *Visual Cognition*, 2nd edition, MIT Press

Some Background Philosophy of Mind & Perception

Alva Noë & Evan T. Thompson, ed., *Vision and Mind: Selected Readings in the Philosophy of Perception*,
Bradford Books, MIT Press

Robert Schwarz, ed., *Perception*, Basil Blackwell

Jonathan Dancy, ed., *Perceptual Knowledge*, OUP

David Chalmers, *The Conscious Mind*, Oxford University Press, Ch. 1

Ned Block, 'On a Confusion about a Function of Consciousness', *Behavioral and Brain Sciences*, 1995

Further Relevant Philosophical Discussions

Daniel Dennett, *Consciousness Explained*, part. Chs. 5, 6, 11

Michael Tye, *The Imagery Debate*, MIT Press, part. Ch.1

—, *Ten Problems of Consciousness*, MIT Press

Kathleen Akins, ed., *Perception*, Oxford University Press

N. Eilan, R. McCarthy & B. Brewer, ed., *Spatial Representation*, Clarendon Press

John Campbell, *Reference & Consciousness*, Clarendon Press

Austen Clark, *A Theory of Sentience*, Clarendon Press

Week One: Perception, Vision & Consciousness

Tim Crane, Introduction to *The Contents of Experience*, Cambridge University Press

D.M. Armstrong, *A Materialist Theory of The Mind*, ch. 10, reprinted in Dancy, *Perceptual Knowledge*

H.P. Grice, 'Some Remarks about the Senses', reprinted in his *Studies in the Way of Words*, Harvard
University Press

Kathleen Akins, ed., *Perception*, Oxford University Press, introduction

Week Two: Psychological Function, Inference and Modularity

Jerry Fodor, *The Modularity of Mind*, MIT Press

—, 'The Modularity of Mind: A Precis', in his *A Theory of Content & Other Essays*, (Cambridge, Mass.:
MIT, 1990).

Irvin Rock, *Indirect Perception*, MIT Press, Ch.1

Also chapter in Schwarz

Tim Shallice, *From Neuropsychology to Mental Structure*, Cambridge University Press, Ch. I

Rob Cummins, *The Nature of Psychological Explanation*, MIT Press, part. Chs. II & III

Week Three: Marr's Approach & Extensions

David Marr, *Vision*, Freeman, esp. Ch. 1

(For introductory summaries of Marr look at Sterelny, *The Representational Theory of Mind* and Tye,
The Imagery Debate, Ch. 1 for philosophers take on these matters and A.L. Yuille and S.
Ullman, 'Computational Theories of Low-level Vision', in D. Osherson, S. Kosslyn & J.
Hollerbach, *Visual Cognition & Action*, MIT Press for psychologists' account which starts with
Marr and mentions some more recent work)

Ken Nakayama et al., 'Visual Surface Representation: A Critical Link between Lower-level and Higher-
level Vision', in Kosslyn & Osherson

B.J. Scholl, 'Objects and attention: the state of the art', *Cognition*, Volume 80, Issues 1-2, June 2001,
Pages 1-46

Zenon Pylyshyn, *Seeing & Visualizing*, MIT Press, Ch. 1

Weeks Four and Five: Dissociations of Vision & Action

- M.A. Goodale, 'The Cortical Organization of Visual Perception and Visuomotor Control'
David Milner & Melvyn A. Goodale, *The Visual Brain in Action*, Oxford University Press
(see also précis of this reprinted in Noë and Thompson)
Marc Jeannerod, *The Cognitive Neuroscience of Action*, Blackwell, Ch. 2
Rosaleen McCarthy, 'Assembling Routines and Addressing Representations', in N. Eilan, R. McCarthy
& B. Brewer, ed., *Spatial Representation*, Blackwell

Further Reading on Visual Cognition

- Tim Shallice, *From Neuropsychology to Mental Structure*, Cambridge University Press
Stephen Palmer, *Vision: From Photons to Phenomenology*, MIT Press
F. Egan, 'Individualism, Computation & Perceptual Content', *Mind* 1992
Stephen M. Kosslyn, *Image & Brain*, MIT Press
Shimon Ullman, *High Level Vision*, MIT Press
Marc Jeannerod, *The Cognitive Neuroscience of Action*, Blackwell, part. Ch. 2
Harold Pashler, 'Attention and Visual Perception', in Kosslyn & Osherson
Elizabeth Spelke et al., 'The Development of Object Perception', in Kosslyn & Osherson
Charles Spence & Jon Driver, *Crossmodal Space and Crossmodal Attention*, OUP, Chs. 8 & 11
J.J. Gibson, *The Senses Considered as Perceptual Systems*, Unwin
J.J. Gibson, *An Ecological Approach to Visual Perception*, LEA
J. K. O'Regan, 'Solving the "Real" Mysteries of Visual Perception: The World as An Outside Memory',
Canadian Journal of Psychology, 46, 1992
B. Keeley, 'Making Sense of the Senses', *Journal of Philosophy*, 2001

Reading on Two Visual Pathologies

Blindsight

- Larry Weiskrantz, 'Some contributions of neuro-psychology of vision and memory to the problems of
consciousness', in A. Marcel & E Bisiach, ed., *Consciousness in Contemporary Science*, Oxford
University Press
Larry Weiskrantz, *Blindsight*, Oxford University Press
Alan Cowey & Petra Stoerig, 'Reflections on Blindsight', in A.D. Milner & M.D. Rugg, ed., *The
Neuropsychology of Consciousness*, Academic Press
——, 'Blindsight in Monkeys', *Nature*, 1995, pp.247-9

Unilateral Visual Neglect

- Edoardo Bisiach and Giuseppe Vallar, 'Hemineglect in Humans', *Handbook of Neuropsychology*, vol. 1
ed., F. Boller & J. Grafman, Elsevier
Edoardo Bisiach, 'Extinction and Neglect: Same or Different?', in Jacques Paillard, ed., *Brain & Space*,
Oxford University Press
Jon Driver and Patrik Vuilleumier, 'Perceptual awareness and its loss in unilateral neglect and
extinction' *Cognition*, Volume 79, Issues 1-2, April 2001, Pages 39-88
Bill Brewer, 'Unilateral Neglect and the Objectivity of Spatial Representation', *Mind & Language*, 1992

Inattentional Blindness & Change Blindness

- Daniel Dennett, *Consciousness Explained*, 6
Fred Dretske, 'Change Blindness', *Philosophical Studies*, July 2004
Arien Mack & Irvin Rock, *Inattentional Blindness*, MIT Press
(Brief overview provided at *Current Directions in Psychological Science* Volume 12 Issue 5 Page 180 -
October 2003.)
Jon Driver, Greg Davis, Charlotte Russell, Massimo Turatto and Elliot Freeman 'Segmentation,
attention and phenomenal visual objects' *Cognition*, Volume 80, Issues 1-2, June 2001, Pages
61-95

Website for demonstrations of inattentional blindness:

http://viscog.beckman.uiuc.edu/djs_lab/demos.html