

Human Cognition: Fall 2008
Ivan K. Ash, Ph.D.

* Required Reading - Other readings are for supplementary purposes and to be used for background information or starting references for final topic paper.

Behaviorism Readings.

- * Watson, J. B. (1994). Psychology as the behaviorist views it. *Psychological Review*, 101 (2), 248-253. (Originally published as Watson, J. B. (1913). Psychology as the behaviorist views it. *Psychological Review*, 20, 158-177.)
- * Skinner, B. F (1984). Behaviorism at fifty. *The Behavioral & Brain Sciences*, 7, 615-667. (Originally published as Skinner, B. F. (1963). Behaviorism at fifty. *Science*, 140, 951-958.)

Cognitive Renaissance Readings.

- * Miller, G. (1956). The magical number seven, plus or minus two: Some limits on our capacity for processing information. *Psychological Review*, 63 (2), 81-97.
- * Norman, D. A., and Bobrow, D. G. (1975). On data-limited and resource-limited processes. *Cognitive Psychology*, 7, 44-64.
- * Shepard, R. N., & Metzler, J. (1971). Mental rotation of three-dimensional objects. *Science*, 171, 701-703.

Perception Readings.

- *De Winter, J. & Wagemans, J. (2006). Segmentation of object outlines into parts: a large-scale integrative study. *Cognition*, 99, 275-325.
- Biederman, I. (1987). Recognition-by-components: A theory of human image understanding. *Psychological Review*, 94 (2), 115-147.

Attention Readings

- * Lachter, J., Forster, K. I. & Ruthruff, E. (2004). Forty-five years after Broadbent (1958): Still no identification without attention. *Psychological Review*, 111 (4), 880-913.
- Logan, G. D. & Gordon, R. D. (2001). Executive control of visual attention in dual-task situation. *Psychological Review*, 108 (2), 393-434.
- Cohen, J. D., Dunbar, K. & McClelland, J. L. (1990). On the control of automatic processes: A parallel distributed processing account of the Stroop Effect. *Psychological Review*, 97 (3), 332-361.

Working Memory Readings

- * Kane, M. J., Hambrick, D. Z., Tuholski, S. W., Wilhelm, O., Payne, T. W., & Engle, R. W. (2004). The generality of working memory capacity: A latent-variable approach to verbal and visuospatial memory span and reasoning. *Journal of Experimental Psychology: General*, *133* (2), 189-217.
- Allen, R. J., Baddeley, A. D., & Hitch, G. J. (2006). Is the binding of visual features in working memory resource-demanding? *Journal of Experimental Psychology: General*, *135* (2), 298-313.

Long-term Memory Readings

- *McDaniel, M. A., Dornburge, C. C., & Guynn, M. J. (2004). Disentangling encoding versus retrieval explanation of the bizarreness effect: Implication for distinctiveness. *Memory & Cognition*, *33* (2), 270-279.
- Anderson, J. R. (1983) Retrieval of Information from Long-Term Memory. *Science*, *220*, 25-30.
- Rumelhart, J. L. & McClelland, D. E. (1985). Distributed memory and the representation of general and specific information. *Journal of Experimental Psychology: General*, *114* (2), 159-188.

Skill Acquisition

- *Osman, M. (2008). Positive transfer and negative transfer/antilearning of problem-solving skills. *Journal of Experimental Psychology: General*, *137*, 97-115.
- Ackerman, P. L. (1988). Determinants of individual differences during skill acquisition: Cognitive abilities and information processing. *Journal of Experimental Psychology: General*, *117* (3), 288-318.
- Ericsson, K. A., Krampe, R. T., & Tesch-Römer, C. (1993). The role of deliberate practice in the acquisition of expert performance. *Psychological Review*, *100* (3), 363-406.
- Logan, G. D. (1988). Toward an instance theory of automatization. *Psychological Review*, *95* (4), 492-527.

Implicit Memory

* Lustig, C. & Hasher, L. (2001). Implicit memory is not immune to inference. *Psychological Bulletin*, 127 (5), 629-650.

Klein, S. B., Cosmides, L., Tooby, J. & Chance, S. (2002). Decision and the Evolution of Memory: Multiple Systems, Multiple Functions. *Psychological Review*, 109 (2), 306-329.

False Memories

*Soraci, S. A, Carlin, M. T., Toglia, M. P., Chechile, R. A., & Neuschatz, J. S. (2003). Generative processing and False Memories: When there is no cost. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 29 (4), 511-523.

Zaragoza, M. S., McCloskey, M., & Jamis, M. (1987). Misleading postevent information and recall of the original event: Further evidence against the memory impairment hypothesis. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 13 (1), 36-44.

Conceptual Knowledge

* Markman, A. B. & Ross, B. H. (2003). Category use and category learning. *Psychological Bulletin*, 129 (4), 592-613.

Murphy, G. L., & Medin, D. L. (1985). The role of theories in conceptual coherence. *Psychological Review*, 92, 289-316.

Osherson, D. N., Smith, E. E., Wilkie, O., López, A., & Shafir, E. (1990). Category-based induction. *Psychological Review*, 97, 185-200.

Language Comprehension

*Ferreira, F., Bailey, K. G. D., & Ferraro, V. (2002). Good-enough representations in language comprehension. *Current Directions in Psychological Science*, 11, 11-15.

* Rapp, D. N. & van den Broek, P. (2005). Dynamic text comprehension: An integrative view of reading. *Current Directions in Psychological Science*, 14, 276-279.

Kintsch, W. (1988) The role of knowledge in discourse comprehension: A Construction-Integration Model. *Psychological Review*, 95 (2), 163-182.

Reasoning

*Copeland, D. E. & Radvansky, G. A. (2004). Working memory and syllogistic reasoning. *Quarterly Journal of Experimental Psychology A: Human Experimental Psychology*, 57, 1437-1457.

Chater, N. & Oaksford, M. (1999). The probability heuristics model of syllogistic reasoning. *Cognitive Psychology*, 38, 191-258.

Evans, J. St. B. T., Handley, S. J. Harper, N. J., & Johnson-Laird, P. N. (1999) Reasoning about necessity and possibility: A test of Mental Model theory of deduction. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 25 (6), 1495-1513

Problem Solving

*Chronicle, E. P., Macgregor, J. N., & Ormerod, T. C. (2004). What makes an insight problem? The roles of heuristics, goal conception, and solution recoding in knowledge-lean problems. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 30, 14-27.

*Jones, G. (2003). Testing two cognitive theories of insight. *Journal of Experimental Psychology: Learning, Memory & Cognition*, 29, 1017-1027.

Kotovsky, K., Hayes, J. R., & Simon, H. A. (1985) Why are some problems hard? Evidence from Tower of Hanoi. *Cognitive Psychology*, 17, 248-294.

Judgment and Decision Making

*Dougherty, M. R., Franco-Watkins, A. M., & Thomas, R. (2008). Psychological plausibility of the theory of Probabilistic Mental Models, and the Fast and Frugal Heuristics. *Psychological Review*, 115, 199-213.

*Gigerenzer, G., Hoffrage, U., & Goldstein, D. G. (2008). Fast and Frugal Heuristics are plausible models of cognition: Reply to Dougherty, Franco-Watkins, and Thomas (2008). *Psychological Review*, 115, 230-239.

Hertwig, R. & Gigerenzer, G. (1999). The 'conjunction fallacy' revisited: How intelligent inferences look like reasoning errors. *Journal of Behavioral Decision Making*, 12, 275-305.

Kahneman, D. & Tversky, A. (1996). On the reality of cognitive illusions. *Psychological Review*, 103 (3), 582-591.