



Contents

About the Editors	xi
Acknowledgments	xiii

Cognitive Psychology: An Overview	1
-----------------------------------	---

P A R T I

Methods of Cognitive Psychology	21
---------------------------------	----

READING 1

The Philosophy and the Approach	28
---------------------------------	----

David Marr

READING 2

Memory-Scanning: Mental Processes Revealed by Reaction-Time Experiments	48
--	----

Saul Sternberg

READING 3

The Appeal of Parallel Distributed Processing	75
---	----

James L. McClelland, David E. Rumelhart, and Geoffrey E. Hinton

READING 4

Calling a Squirrel a Squirrel but a Canoe a Wigwam: A Category-Specific Deficit for Artefactual Objects and Body Parts	100
---	-----

Carol Sacchett and Glyn W. Humphreys

READING 5

Positron Emission Tomographic Studies of the Cortical Anatomy of Single-Word Processing	109
--	-----

Steven E. Petersen, Peter T. Fox, Michael I. Posner, Mark A. Mintun, and Marcus E. Raichle

P A R T I I

Pattern Recognition 119

READING 6

Pattern Recognition 125

Ulric Neisser

READING 7

Selective Adaptation of Linguistic Feature Detectors 151

Peter D. Eimas and John D. Corbit

READING 8

Failure to Detect Changes to People During
a Real-World Interaction 159

Daniel J. Simons and Daniel T. Levin

READING 9

Binocular Rivalry and Visual Awareness
in Human Extrastriate Cortex 167

Frank Tong, Ken Nakayama, J. Thomas Vaughan, and Nancy Kanwisher

P A R T I I I

Attention 179

READING 10

Some Experiments on the Recognition of Speech,
with One and with Two Ears 186

E. Colin Cherry

READING 11

Studies of Interference in Serial Verbal Reactions 193

J. Ridley Stroop

READING 12

Attention and Cognitive Control 205

Michael I. Posner and Charles R. R. Snyder

READING 13

Selection for Action: The Role of Inhibitory Mechanisms 224

Steven P. Tipper

PART IV**Imagery 233****READING 14****Visual Images Preserve Metric Spatial Information:
Evidence from Studies of Image Scanning 239**

Stephen M. Kosslyn, Thomas M. Ball, and Brian J. Reiser

READING 15**Mental Rotation of Three-Dimensional Objects 254**

Roger N. Shepard and Jacqueline Metzler

READING 16**Reinterpreting Visual Patterns in Mental Imagery 258**

Ronald A. Finke, Steven Pinker, and Martha J. Farah

READING 17**The Neural Basis of Mental Imagery 278**

Martha J. Farah

PART V**Memory 289****READING 18****Depth of Processing and the Retention of Words
in Episodic Memory 296**

Fergus I. M. Craik and Endel Tulving

READING 19**Semantic Integration of Verbal Information
into a Visual Memory 309**

Elizabeth F. Loftus, David G. Miller, and Helen J. Burns

READING 20**Becoming Famous without Being Recognized: Unconscious
Influences of Memory Produced by Dividing Attention 322**

Larry L. Jacoby, Vera Woloshyn, and Colleen Kelley

READING 21**Creating False Memories: Remembering Words
Not Presented in Lists 338**

Henry L. Roediger III and Kathleen B. McDermott

READING 22

Working Memory 355

Alan Baddeley

READING 23

How Many Memory Systems Are There? 362

Endel Tulving

READING 24

On the Transition from Childhood Amnesia
to the Recall of Personal Memories 379

Darryl Bruce, Angela Dolan, and Kimberly Phillips-Grant

PART VI

Using and Accessing Pre-Existing Knowledge Structures 389

READING 25

Retrieval Time from Semantic Memory 395

Allan M. Collins and M. Ross Quillian

READING 26

Depth of Automatic Spreading Activation: Mediated Priming
Effects in Pronunciation but not in Lexical Decision 403

David A. Balota and Robert F. Lorch, Jr.

READING 27

The "Tip of the Tongue" Phenomenon 418

Roger Brown and David McNeill

READING 28

Contextual Prerequisites for Understanding:
Some Investigations of Comprehension and Recall 431

John D. Bransford and Marcia K. Johnson

PART VII

Categorization 443

READING 29

Basic Objects in Natural Categories 448

Eleanor Rosch, Carolyn B. Mervis, Wayne D. Gray, David M. Johnson, and Penny Boyes-Braem

READING 30**On the Genesis of Abstract Ideas 472**

Michael I. Posner and Steven W. Keele

READING 31**Concepts and Conceptual Structure 482**

Douglas L. Medin

PART VIII**Language Development 501****READING 32****The Development of Language in Genie: A Case of Language Acquisition beyond the “Critical Period” 507**

Victoria Fromkin, Stephen Krashen, Susan Curtiss, David Rigler, and Marilyn Rigler

READING 33**The Child’s Learning of English Morphology 523**

Jean Berko

READING 34**Statistical Learning by 8-Month-Old Infants 538**

Jenny R. Saffran, Richard N. Aslin, and Elissa L. Newport

READING 35**Rule Learning by 7-Month-Old Infants 543**

Gary F. Marcus, S. Vijayan, S. Bandi Rao, and Peter M. Vishton

PART IX**Language 551****READING 36****The Non-Anomalous Nature of Anomalous Utterances 558**

Victoria A. Fromkin

READING 37**Lexical Access during Sentence Comprehension: (Re)Consideration of Context Effects 577**

David A. Swinney

READING 38**Language and the Brain 590**

Norman Geschwind

READING 39

Functional Neuroanatomy of the Cognitive Process of Mapping during Discourse Comprehension 603

David A. Robertson, Morton Ann Gernsbacher, Seline J. Guidotti, Rachel R. W. Robertson, William Irwin, Bryan J. Mock, and Mary E. Campana

PART X

Judgment and Decision Making 615

READING 40

The Framing of Decisions and the Psychology of Choice 621

Amos Tversky and Daniel Kahneman

READING 41

Judgment under Uncertainty: Heuristics and Biases 631

Amos Tversky and Daniel Kahneman

READING 42

The Cold Facts about the “Hot Hand” in Basketball 643

Amos Tversky and Thomas Gilovich

PART XI

Reasoning and Problem Solving 651

READING 43

Schema Induction and Analogical Transfer 657

Mary L. Gick and Keith J. Holyoak

READING 44

Intuitive Reasoning about Abstract and Familiar Physics Problems 683

Mary Kister Kaiser, John Jonides, and Joanne Alexander

READING 45

Expert Performance: Its Structure and Acquisition 690

K. Anders Ericsson and Neil Charness

Appendix: How to Read a Journal Article in Cognitive Psychology 723

Henry L. Roediger and David A. Gallo

Author Index 735

Subject Index 753