

# Contents

1. How to Build a Baby: Prologue 3
  - Concepts Within the Larger System* 3
  - Techniques to Study Concept Formation in Infancy* 9
  - Going Beyond Piaget* 11
2. Piaget's Sensorimotor Infant 17
  - What a Sensorimotor Infant Would Be Like* 17
  - Piaget's View of Image Formation* 22
  - Piaget's Theory of the Transition to Conceptual Thought* 25
  - Motor Incompetence Versus Conceptual Incompetence* 34
3. Kinds of Representation: Seeing and Thinking 41
  - On Parsimony and Related Matters* 41
  - Procedural Versus Declarative Knowledge* 45
  - Implicit Versus Explicit Learning* 51
4. Perceptual Meaning Analysis and Image-Schemas:  
The Infant as Interpreter 59
  - Nativism Versus Empiricism* 59
  - Perceptual Meaning Analysis* 66
  - Image-Schemas as a Conceptual Format* 77
  - Concepts of Kinds and Identification of Kinds* 89

5. Some Image-Schemas and Their Functions 93
  - Examples of Image-Schemas* 93
  - Some Uses of Image-Schemas in Infancy* 115
6. Some Differences Between Percepts and Concepts:
  - The Case of the Basic Level 121
    - A Critique of the Notion of Basic-Level Concepts* 121
    - Basic-Level Categorization as a Part of Perceptual Categorization* 135
    - There Are Multiple Forms of Categorization* 142
7. Some Preverbal Concepts 147
  - Global Concepts* 147
  - A Dissociation Between Global Concepts and Detailed Perceptual Schemas* 158
  - Interpretation Versus Identification* 166
8. Conceptual Categories as Induction Machines 171
  - Inductive Generalization* 171
  - How to Get Preverbal Children to Talk to You* 188
  - Why Infants Don't Use "Basic-Level" Concepts for Inductions* 193
  - Summary of Some Differences Between Percepts and Concepts* 195
9. Continuity in the Conceptual System: Acquisition, Breakdown, and Reorganization 201
  - The Initial Organization of the Conceptual System* 201
  - Breakdown of the Conceptual System* 208
  - Conceptual Growth Versus Conceptual Reorganization* 213
10. Recall of the Past 221
  - Recall of Absent Objects* 223
  - Recall Versus Recognition of Events* 227
  - Deferred Imitation of Events* 230
  - What Deferred Imitation Measures* 233
  - The Nature of Preverbal Recall and Infantile Amnesia* 239
11. Language Acquisition 243
  - Object Concepts and Words* 243
  - Relational Concepts and Words* 248
  - Preverbal Spatial Concepts and Semantic Primitives* 253
  - Some Preverbal Spatial Concepts: The Case of In, On, and Fit Together* 265
  - Bootstrapping Into Syntax With Image-Schemas* 274

12. Consciousness and Conclusions	283
<i>Conscious and Nonconscious Processes in Memory</i>	286
<i>Conscious and Nonconscious Processes in Categorization</i>	291
<i>Conscious and Nonconscious Processes in Language Acquisition</i>	295
<i>A Few Final Words</i>	300
Notes	305
References	311
Index of Names	343
Index of Subjects	351