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How Maps Work
Representation, Visualization, and Design
Alan M. MacEachren, Department of Geography, The Pennsylvania State University

CRITICAL ACCLAIM
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“Critical acclaim...A thoughtful and thought-provoking intellectual treatise on the role of graphic representation in human perception, cognition, visualization, and communication. Although the vehicle for this journey is the geographic map, you will learn a great deal about yourself and your interaction with the environment along the way.”
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“I used the book in a graduate seminar series....The book created a fabric for discussion which was rich enough and broad enough to support extensive and intensive scrutiny....I recommend it to mapping science and GIS professionals, to scientists working in computer vision, to everyone whose work involves creation of, or inference about, representations of spatial information.”
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DESCRIPTION
Now available in paperback for the first time, this classic work presents a cognitive–semiotic framework for understanding how maps work as powerful, abstract, and synthetic spatial representations. Explored are the ways in which the many representational choices inherent in mapping interact with information processing and knowledge construction, and how the resulting insights can be used to make informed symbolization and design decisions. A new preface to the paperback edition situates the book within the context of contemporary technologies. As the nature of maps continues to evolve, Alan MacEachren emphasizes the ongoing need to think systematically about the ways people interact with and use spatial information.

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CONTENTS
1. Taking a Scientific Approach to Improving Map Representation and Design

I. How Meaning Is Derived from Maps
2. An Information-Processing View of Vision and Visual Cognition
3. How Maps Are Seen
4. How Maps Are Understood:
   Visual Array
   Visual Description
   Knowledge Schemata
   Cognitive Representation

II. How Maps Are Imbued with Meaning
5. A Primer on Semiotics for Understanding Map Representation
6. A Functional Approach to Map Representation: The Semantics and Syntactics of Map Signs
7. A Lexical Approach to Map Representation: Map Pragmatics

III. How Maps Are Used: Applications in Geographic Thinking
8. GVIS: Facilitating Visual Thinking
9. GVIS: Relationships in Space and Time
10. GVIS: Should We Believe What We See?
   Postscript

ABOUT THE AUTHOR
Alan M. MacEachren is currently Professor of Geography and Director of the GeoVISTA Center at The Pennsylvania State University. In addition to researching cognitive and semiotic aspects of how maps work, he is active in the development of interactive systems for geographic visualization and in understanding and enabling group work with geospatial information and technologies. He is the author of Some Truth with Maps and coeditor of Visualization in Modern Cartography.