



MAKING SPACE

How the Brain Knows Where Things Are

JENNIFER M. GROH

Making Space How The Brain Knows Where Things Are

Yi-Tong Ma



Making Space How The Brain Knows Where Things Are:

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Knowing One's Place: Space and the Brain Howard Burton, 2020-10-01 This book is based on an in depth filmed conversation between Howard Burton and Jennifer Groh Professor of Psychology and Neuroscience at Duke University After an inspiring story about how she became interested in neuroscience this extensive conversation examines Jennifer Groh's extensive research on how the brain combines various streams of sensory input to determine where things are together with the corresponding implications for a wide range of issues from neuroplasticity to evolutionary mechanisms This carefully edited book includes an introduction Framing Evolution and questions for discussion at the end of each chapter I From Ticks to Brains Becoming a neuroscientist II Historical Background On the shoulders of giants III Frames of Reference Integrating sensory systems IV Mysterious Overlap Fitting the pieces together V Smell An overlooked sense VI Brain Maps Making a picture VII Ice Cream Cones and Multiplexing Same neurons different functions VIII Navigating Rats Place fields and memory IX Neuroplasticity Phantom limbs cochlear implants and feedback X Evolutionary Mechanisms Repeat performance XI The Road Ahead Testing neurons for contrast About Ideas Roadshow Conversations Presented in an accessible conversational format Ideas Roadshow books not only explore frontline academic research but also reveal the inspirations and personal journeys behind the research

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III Vision and Perception A Conversation with Kalanit Grill Spector This book is based on an in depth filmed conversation between Howard Burton and Kalanit Grill Spector Professor in Psychology and the Stanford Neurosciences Institute at Stanford University Kalanit Grill Spector s is a vision specialist with a background in computational neuroscience Her research examines how the brain processes visual information and perceives it This extensive conversation explores how functional imaging techniques are used to visualize the brain in action and how it functions to recognize people objects and places Kalanit also discusses how the anatomical and functional properties of the brain change from infancy to childhood through adulthood and how this development is related to improved visual recognition abilities

IV Investigating Intelligence A conversation with John Duncan This book is based on an in depth filmed conversation between Howard Burton and neuroscientist John Duncan University of Cambridge and examines fascinating questions in neuroscience such as What is intelligence and what does IQ testing tell us Can intelligence be measured and improved What role does our frontal lobe play in executive control John Duncan has rigorously investigated these types of issues for years and this conversation covers all those questions plus topics such as impairments following brain damage functional brain imaging and the brain basis for attention intelligence and cognitive control

V Minds and Machines A conversation with Miguel Nicolelis This book is based on an in depth filmed conversation between Howard Burton and Miguel Nicolelis Professor of Neurobiology Neurology Neurosurgery Biomedical Engineering Psychology and Neuroscience and Orthopaedic Surgery and Co Director of the Center for Neuroengineering at Duke University This thought provoking conversation dives into Miguel Nicolelis extensive and important research for over 20 years now and how he has been blurring the line between science fiction and science fact developing increasingly sophisticated ways of harnessing the thoughts of rats monkeys and humans to drive mechanical devices in the rapidly emerging field of brain machine interfaces As he continues to explore how best to apply this fascinating technology to liberate paralysis victims and Parkinson s sufferers from their neurological constraints Nicolelis remains focused on challenging conventional wisdom of what the brain is and how it works consistently probing the evolving frontier between body and mind Howard Burton is the creator and host of Ideas Roadshow and was the Founding Executive Director of Perimeter Institute for Theoretical Physics

Transnational Religious Spaces Philip Clart, Adam Jones, 2020-07-06 This volume bringing together work by scholars from Europe East Asia North America and West Africa investigates transnational religious spaces in a comparative manner by juxtaposing East Asian and African examples It highlights flows of ideas actors and organizations out of into or within a given continental space These flows are patterned mainly by colonialism or

migration The book also examines cases where the transnational space in question encompasses both East Asia and Africa notably in the development of Japanese new religions in Africa Most of the studies are located in the present a few go back to the late nineteenth century The volume is rounded off by Thomas Tweed s systematic reflections on categories for the study of transnationalism his chapter Flows and Dams critically weighs the metaphorical language we use to think speak and write about transnational religious spaces

The British Journal of Photography William Crookes,T.A. Malone,George Shadbolt,J. Traill Taylor,William Blanchard Bolton,Thomas Bedding,1910 **Making Space Happen** Paula Berinstein,2002 From entrepreneurs planning to turn mass space travel into a money making opportunity to a science fiction author arguing against the privatization of space 22 people involved in the plans for the future private uses of space travel and colonization are interviewed by space industry observer Berinstein Annotation copyrighted by Book News Inc Portland OR

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In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Making Space How The Brain Knows Where Things Are**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Making Space How The Brain Knows Where Things Are

1. Understanding the eBook Making Space How The Brain Knows Where Things Are
 - The Rise of Digital Reading Making Space How The Brain Knows Where Things Are
 - Advantages of eBooks Over Traditional Books
2. Identifying Making Space How The Brain Knows Where Things Are
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Making Space How The Brain Knows Where Things Are
 - User-Friendly Interface
4. Exploring eBook Recommendations from Making Space How The Brain Knows Where Things Are
 - Personalized Recommendations

- Making Space How The Brain Knows Where Things Are User Reviews and Ratings
- Making Space How The Brain Knows Where Things Are and Bestseller Lists
- 5. Accessing Making Space How The Brain Knows Where Things Are Free and Paid eBooks
 - Making Space How The Brain Knows Where Things Are Public Domain eBooks
 - Making Space How The Brain Knows Where Things Are eBook Subscription Services
 - Making Space How The Brain Knows Where Things Are Budget-Friendly Options
- 6. Navigating Making Space How The Brain Knows Where Things Are eBook Formats
 - ePub, PDF, MOBI, and More
 - Making Space How The Brain Knows Where Things Are Compatibility with Devices
 - Making Space How The Brain Knows Where Things Are Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Making Space How The Brain Knows Where Things Are
 - Highlighting and Note-Taking Making Space How The Brain Knows Where Things Are
 - Interactive Elements Making Space How The Brain Knows Where Things Are
- 8. Staying Engaged with Making Space How The Brain Knows Where Things Are
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Making Space How The Brain Knows Where Things Are
- 9. Balancing eBooks and Physical Books Making Space How The Brain Knows Where Things Are
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Making Space How The Brain Knows Where Things Are
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Making Space How The Brain Knows Where Things Are
 - Setting Reading Goals Making Space How The Brain Knows Where Things Are
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Making Space How The Brain Knows Where Things Are
 - Fact-Checking eBook Content of Making Space How The Brain Knows Where Things Are

- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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