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Portraits of the Mind

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Portraits in Charcoal with Nathan Fowkes 'Portraits of the
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Portraits of the Mind follows the fascinating history of our exploration of the brain through images, from medieval sketches and 19th-century drawings by the founder of modern neuroscience to images produced using state-of-the-art techniques, allowing us to see the fantastic networks in the brain as never before. These black-and-white and vibrantly colored images, many resembling abstract art, are employed daily by scientists around the world, but most have never before been seen by the ...

Portraits of the Mind: Visualizing the Brain from ...

Portraits of the Mind: Visualizing the Brain from Antiquity to the 21st Century. by. Carl Schoonover. 4.38 · Rating details · 213 ratings · 17 reviews. Portraits of the Mind follows

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The fascinating history of our exploration of the brain through images, from medieval sketches and 19th-century drawings by the founder of modern neuroscience to images produced using state-of-the-art techniques, allowing us to see the fantastic networks in the brain as never before.

Portraits of the Mind: Visualizing the Brain from ...

Portraits of the Mind NPR coverage of Portraits of the Mind: Visualizing the Brain from Antiquity to the 21st Century by Carl Schoonover and Jonah Lehrer. News, author interviews, critics' picks ...

Portraits of the Mind : NPR

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Portraits of the Mind : Visualizing the Brain from ...

In Portraits of the Mind, published while he was a graduate student, Schoonovner masterfully curated a collection of many of the most stunning and important images created by neuroscientists over the centuries. While any practicing neuroscientist could suggest important images to augment the collection, its breadth in both time and technique is together coherent and impressive.

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Portraits of the Mind: Visualizing the Brain from ...

Portraits of the Mind: A Brief History of Visualizing the Brain
By Maria Popova Few projects embody the fertile cross-
pollination of art and science more beautifully than Portraits
of the Mind: Visualizing the Brain from Antiquity to the 21st
Century (public library) — a book that sources its material
in science, roots its aesthetic in art, and reads like a literary
anthology, is making us swoon in all kinds of ways.

Portraits of the Mind: A Brief History of Visualizing the ...

In the new book Portraits of the Mind: Visualizing the Brain
from Antiquity to the 21st Century, Columbia neuroscience
PhD student Carl Schoonover curates and comments on a

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Portraits of the Mind: Visualizing the Brain - The Atlantic
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Carl Reiner.

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Portraits of the Mind follows the fascinating history of our
exploration of the brain through images, from medieval
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the brain as never before.

Portraits of the Mind: Visualizing the Brain from ...

The book, Portraits of the Mind by Carl Schoonover is an exquisite book treasure that thrills the reader who wants both pictorial beauty and fact uncovered in a book. I love the sentence in the preface that tells us "an army of curious men and women has endowed us with an abundance of infinitesimal glimpses into what is going on upstairs...."

Amazon.com: Customer reviews: Portraits of the Mind ...

Portraits of the Mind: A Digital Edit. Visualizing the brain through a digital lens. A unique glimpse into the aesthetic of neurosurgery and neuroscience.

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Portraits of the Mind: A Digital Edit

In parallel to my scientific work, I am committed to promoting the transmission of scientific knowledge to general audiences; in 2008 I cofounded NeuWrite, a working group for scientists and writers, and in 2010 I published a book, *Portraits of the Mind: Visualizing the Brain from Antiquity to the 21st Century*.

Carl Schoonover

Portraits of the Mind: Visualizing the Brain from Antiquity to the 21st Century, by Carl Schoonover, foreword by Jonah Lehrer, is published by Abrams. SCANNING ELECTRON MICROSCOPY Spiny neuron.

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Portraits of the Mind: Visualizing the Brain | Boing Boing

In "Portraits of the Mind: Visualizing the Brain from Antiquity to the 21st Century" (Abrams, 2010), Carl Schoonover surveys the ways scientists have mapped out the brain, from medieval sketches ...

Portraits of the Mind follows the fascinating history of our exploration of the brain through images, from medieval sketches and 19th-century drawings by the founder of modern neuroscience to images produced using state-of-the-art techniques, allowing us to see the fantastic networks in the brain as never before. These black-and-white and

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vibrantly colored images, many resembling abstract art, are employed daily by scientists around the world, but most have never before been seen by the general public. Each chapter addresses a different set of techniques for studying the brain as revealed through the images, and each is introduced by a leading scientist in that field of study. Author Carl Schoonover ' s captions provide detailed explanations of each image as well as the major insights gained by scientists over the course of the past 20 years. Accessible to a wide audience, this book reveals the elegant methods applied to study the mind, giving readers a peek at its innermost workings, helping us to understand them, and offering clues about what may lie ahead. Praise for Portraits of the Mind: "An odyssey through the brain, illuminated by a rainbow"

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The 21st Century "Stunning images" --Scientific American
"The collection of images in the new book Portraits of the
Mind is truly impressive . . . The mix of history, science and
art is terrific." -Wired.com "History, science, and art come
together to provide a unique perspective on what's going on
upstairs." --New Yorker.com "No knowledge of the source or
subject matter of these images is necessary; the book is
justified by their beauty alone." --Science "A remarkable new
book" - -Discover.com "John Keats's insistence that truth is
beauty is exemplified by Carl Schoonover's wonderful book
Portraits of the Mind. Since one cannot understand the
present without examining the past, this book offers a
delightful and instructive way of accomplishing just that. I
enthusiastically recommend this beautiful book both to

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students of brain science and to lovers of art." -Eric R. Kandel, MD, Nobel Prize in Physiology or Medicine, 2000; University Professor at Columbia; Fred Kavli Professor and Director, Kavli Institute for Brain Science; Senior Investigator at the Howard Hughes Medical Institute; and author of In Search of Memory: The Emergence of a New Science of Mind

"Portraits of the Mind achieves a rare combination of beauty and knowledge. Its images of the brain are mesmerizing, from medieval engravings to modern visualizations as gorgeously abstract as anything by Rothko or de Kooning. And in explaining the nature of these images, this book also delivers an enlightening, up-to-date history of neuroscience."

-Carl Zimmer, author of Soul Made Flesh: The Discovery of the Brain-and How It Changed the World and The Mind's Eye

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Goes Blind: Fifteen Journeys Through the Brain "Portraits of the Mind is a remarkable book that combines beautifully reproduced illustrations of the nervous system as it has been visualized over the centuries, as well as lively and authoritative commentaries by some of today's leading neuroscientists. It will be enjoyed by professionals and general readers alike." --Dale Purves, MD, Professor of Neurobiology, Psychology and Neuroscience; and Philosophy at Duke University

The colorful charts, graphs, and maps presented at the 1900 Paris Exposition by famed sociologist and black rights activist W. E. B. Du Bois offered a view into the lives of black Americans, conveying a literal and figurative representation

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of "the color line." From advances in education to the lingering effects of slavery, these prophetic infographics—beautiful in design and powerful in content—make visible a wide spectrum of black experience. W. E. B. Du Bois's Data Portraits collects the complete set of graphics in full color for the first time, making their insights and innovations available to a contemporary imagination. As Maria Popova wrote, these data portraits shaped how "Du Bois himself thought about sociology, informing the ideas with which he set the world ablaze three years later in *The Souls of Black Folk*."

At the crossroads of art and science, Beautiful Brain presents Nobel Laureate Santiago Ramón y Cajal ' s contributions to neuroscience through his groundbreaking artistic brain

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The 21st Century Imagery. Santiago Ramón y Cajal (1852–1934) was the father of modern neuroscience and an exceptional artist. He devoted his life to the anatomy of the brain, the body ' s most complex and mysterious organ. His superhuman feats of visualization, based on fanatically precise techniques and countless hours at the microscope, resulted in some of the most remarkable illustrations in the history of science. Beautiful Brain presents a selection of his exquisite drawings of brain cells, brain regions, and neural circuits with accessible descriptive commentary. These drawings are explored from multiple perspectives: Larry W. Swanson describes Cajal ' s contributions to neuroscience; Lyndel King and Eric Himmel explore his artistic roots and achievement; Eric A. Newman provides commentary on the

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The 21st Century drawings, and Janet M. Dubinsky describes contemporary neuroscience imaging techniques. This book is the companion to a traveling exhibition opening at the Weisman Art Museum in Minneapolis in February 2017, marking the first time that many of these works, which are housed at the Instituto Cajal in Madrid, have been seen outside of Spain. Beautiful Brain showcases Cajal ' s contributions to neuroscience, explores his artistic roots and achievement, and looks at his work in relation to contemporary neuroscience imaging, appealing to general readers and professionals alike.

Equal parts mail art, data visualization, and affectionate correspondence, Dear Data celebrates "the infinitesimal,

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The 21st Century, yet exquisitely human details of life," in the words of Maria Popova (Brain Pickings), who introduces this charming and graphically powerful book. For one year, Giorgia Lupi, an Italian living in New York, and Stefanie Posavec, an American in London, mapped the particulars of their daily lives as a series of hand-drawn postcards they exchanged via mail weekly—small portraits as full of emotion as they are data, both mundane and magical. Dear Data reproduces in pinpoint detail the full year's set of cards, front and back, providing a remarkable portrait of two artists connected by their attention to the details of their lives—including complaints, distractions, phone addictions, physical contact, and desires. These details illuminate the lives of two remarkable young women and

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also inspire us to map our own lives, including specific suggestions on what data to draw and how. A captivating and unique book for designers, artists, correspondents, friends, and lovers everywhere.

This book contains a large collection of beautiful figures produced throughout the nineteenth century and the beginning of the twentieth century and that represent some characteristic examples of the early days of research in neuroscience. The main aim of this work is to demonstrate to the general public that the study of the nervous system is not only important for the many obvious reasons related to brain function in both health and disease, but also for the unexpected natural beauty that it beholds. This beauty has

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been discovered thanks to the techniques used to visualize the microscopic structure of the brain, a true forest of colourful and florid neural cells. As illustrated by his marvellous drawings, the studies of Santiago Ramon y Cajal (1852-1934) no doubt contributed more than those of any other researcher at the time to the growth of modern neuroscience. Thus, we have honored his name in the title of this book, even though the figures contained in the main body of the book are from 91 authors. Looking at the illustrations in this book the readers will not only marvel at Cajal's drawings but they will also find that many of the other early researchers that studied the nervous system were also true artists, of considerable talent and aesthetic sensibility. Thus, the present book contains numerous

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drawings of some of the most important pioneers in neuroscience, including Deiters, Kolliker, Meynert, Ranvier, Golgi, Retzius, Nissl, Dogiel, Alzheimer, del Rio-Hortega and de Castro. The colourful period: internal structure and chemistry of the cells. This book will be of general interest, not only due to the captivating aesthetic appeal of the illustrations but also because they represent the bases of our current understanding of the nervous system.

Principles of Neurobiology, Second Edition presents the major concepts of neuroscience with an emphasis on how we know what we know. The text is organized around a series of key experiments to illustrate how scientific progress is made and helps upper-level undergraduate and graduate students

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discover the relevant primary literature. Written by a single author in a clear and consistent writing style, each topic builds in complexity from electrophysiology to molecular genetics to systems level in a highly integrative approach. Students can fully engage with the content via thematically linked chapters and will be able to read the book in its entirety in a semester-long course. Principles of Neurobiology is accompanied by a rich package of online student and instructor resources including animations, figures in PowerPoint, and a Question Bank for adopting instructors.

An anecdotal guide for the perplexed new investigator as well as a refreshing resource for the old pro, covering

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everything from valuable personality traits for an investigator to social factors conducive to scientific work. Santiago Ramón y Cajal was a mythic figure in science. Hailed as the father of modern anatomy and neurobiology, he was largely responsible for the modern conception of the brain. His groundbreaking works were *New Ideas on the Structure of the Nervous System* and *Histology of the Nervous System in Man and Vertebrates*. In addition to leaving a legacy of unparalleled scientific research, Cajal sought to educate the novice scientist about how science was done and how he thought it should be done. This recently rediscovered classic, first published in 1897, is an anecdotal guide for the perplexed new investigator as well as a refreshing resource for the old pro. Cajal was a pragmatist,

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aware of the pitfalls of being too idealistic—and he had a sense of humor, particularly evident in his diagnoses of various stereotypes of eccentric scientists. The book covers everything from valuable personality traits for an investigator to social factors conducive to scientific work.

First released in the Spring of 1999, *How People Learn* has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the

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The 21st Century mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do-with curricula, classroom settings, and teaching methods--to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. How People Learn examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls

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Into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

An exploration of how far neuroscience may go to help provide understanding of the structure, workings, and possibilities of the human brain.

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The Spanish anatomist Santiago Ramon y Cajal (1852-1934) explored the microscopic world of the brain and found a landscape inhabited by distinctly individual cells, later termed neurons. "The mysterious butterflies of the soul," he called them, "whose beating of wings may one day reveal to us the secrets of the mind." Although he ranks among the greatest scientists in history, the name of the Nobel Prize-winning "father of modern neuroscience" is not as well-known as that of Darwin, Pasteur, Galileo, Einstein, Copernicus, and Isaac Newton. The second half of the nineteenth century saw a revolution in the study of the mind. Cajal was a contemporary of Sigmund Freud (1856-1939), whose radical theories would scandalize the next century.

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Before he was a neuroanatomist Cajal conducted psychiatric experiments and before Freud became a psychiatrist, he worked in neuroanatomy. In public, Cajal spoke respectfully about Freud, but in private, Cajal rejected the man and his theories. In order to disprove Freud's "lies," Cajal started to record his own dreams in a diary, part of a notably personal book project, which he worked on from 1918 until his death in 1934. For reasons unknown, Cajal never published this work. Until recently, it was assumed that the manuscript had been destroyed during the Spanish Civil War. The Dreams of Santiago Ramon y Cajal is this lost dream diary, translated into English for the first time. The text is accompanied by an introduction to the life and work of Cajal, his relationship with the famed Viennese psychoanalyst, and the historical

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context surrounding the contributions of two great dueling
intellects. "

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