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The Bilingual Brain - Arturo E. Hernandez 2013-11

Arturo Hernandez presents the results of 25 years of research into the factors that might help us to understand how two (or more) languages are stored in one brain. It is clear that the brain is not egalitarian—some languages are privileged and others are not, but why?

Deep Learning for Vision Systems - Mohamed Elgendy 2020-11-10

How does the computer learn to understand what it sees? Deep Learning for Vision Systems answers that by applying deep learning to computer vision. Using only high school algebra, this book illuminates the concepts behind visual intuition. You'll understand how to use deep learning architectures to build vision system applications for image generation and facial recognition. Summary Computer vision is central to many leading-edge innovations, including self-driving cars, drones, augmented reality, facial recognition, and much, much more. Amazing new computer vision applications are developed every day, thanks to rapid advances in AI and deep learning (DL). Deep Learning for Vision Systems teaches you the concepts and tools for building intelligent, scalable computer vision systems that can identify and react to objects in images, videos, and real life. With author Mohamed Elgendy's expert instruction and illustration of real-world projects, you'll finally grok state-of-the-art deep learning techniques, so you can build, contribute to, and lead in the exciting realm of computer vision! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology How much has computer vision advanced? One ride in a Tesla is the only answer you'll need. Deep learning techniques have led to exciting breakthroughs in facial recognition, interactive simulations, and medical imaging, but nothing beats seeing a car respond to real-world stimuli while speeding down the highway. About the book How does the computer learn to understand what it sees? Deep Learning for Vision Systems answers that by applying deep learning to computer vision. Using only high school algebra, this book illuminates the concepts behind visual intuition. You'll understand how to use deep learning architectures to build vision system applications for image generation and facial recognition. What's inside Image classification and object detection Advanced deep learning architectures Transfer learning and generative adversarial networks DeepDream and neural style transfer Visual embeddings and image search About the reader For intermediate Python programmers. About the author Mohamed Elgendy is the VP of Engineering at Rakuten. A seasoned AI expert, he has previously built and managed AI products at Amazon and Twilio. Table of Contents PART 1 - DEEP LEARNING FOUNDATION 1 Welcome to computer vision 2 Deep learning and neural networks 3 Convolutional neural networks 4 Structuring DL projects and hyperparameter tuning PART 2 - IMAGE CLASSIFICATION AND DETECTION 5 Advanced CNN architectures 6 Transfer learning 7 Object detection with R-CNN, SSD, and YOLO PART 3 - GENERATIVE MODELS AND VISUAL EMBEDDINGS 8 Generative adversarial networks (GANs) 9 DeepDream and neural style transfer 10 Visual embeddings

Affinity Photo How To - Robin Whalley

Are you ready to improve your skills and knowledge of Affinity Photo? If you ever find yourself wondering how to do something in Affinity Photo, then this book is for you. It doesn't matter if you are a novice or advanced Affinity user, you are likely to discover something you didn't know by reading this book. In Affinity Photo How To you will learn how to perform common tasks such as how to crop a photo, how to

sharpen an image or how to create a mask. But in doing so you will learn much more than just a collection of simple techniques. Each chapter of the book focusses on a different activity, and using instructive exercises, explains how Affinity Photo works. Importantly, it links what might seem unrelated activities together, to build your understanding and editing skill in Affinity Photo. By the end of this book, you will find you are delving deep into Affinity Photo to perform tasks such as easily creating complex selections and masks. Here are just a few examples of what you will learn: · How to customise almost every aspect of the Affinity interface. · How to control the many different options when exporting an image, like colour space, bit depth and image resolution. · How to edit images using different colour formats for example RGB and CMYK, but how to do this without changing the image format. · How to easily add layer effects including shadows, outlines, and glows. · How blending modes work and how you can use these with different Affinity Photo tools like the Paint Brush. · How to use the Refine Selection dialog to greatly improve the accuracy of a selection automatically. What may seem like a simple topic will probably delve much deeper into Affinity Photo than you imagine. Accompanying the many exercises in this book are sample files. You can download these from the authors website, allowing you to follow along in your own copy of Affinity Photo. Packed with tips and advice, this book is a valuable resource for all users of Affinity Photo.

Functional Categories in Learner Language - Christine Dimroth 2009

Research on spontaneous processes of language acquisition has shown that early learner systems are based on lexical structures. At some point in acquisition this lexical-semantic system is given up in favour of a target-like functional category system. This work deals with the driving forces behind the acquisition of the functional properties of inflection, word-order variation, definiteness and agreement.

Hacks for Minecrafters - Megan Miller 2018-11-06

A New York Times bestseller, now in paperback for the first time and completely revised and updated! With more than 100 million registered players, Minecraft has taken control of gamers all over the world. With Hacks for Minecrafters, you'll be able to take back that control! Only with the help found in Hacks for Minecrafters will you be able to craft your world exactly how you want it to look, all while discovering the hidden gems of the game. Now being released in paperback, Hacks for Minecrafters has been updated for Minecraft 1.12, the World of Color update that added new function and crafting systems, illusioners, parrots, and building materials like glazed terracotta and concrete. In this hacker's guide, you'll find expertise on: Mining—including diamonds and rare minerals! Farming—growing tricks, seed hacks, and the best tree-replanting techniques! Battle—for the best weapons and armor! Magic—top crafting hacks and book modifiers! You will never be stuck again! With more than one hundred full-color screenshots of in-game footage, you'll be able to carefully follow every tip with precision. It doesn't matter if you're playing on a PC, mobile device, or home console; with Hacks for Minecrafters, you'll be beating the game in no time. Every block has been accounted for, all living entities have been taken into consideration, and all modes of game-play are covered!

Processing 2 - Jan Vantomme 2012-09-20

Over 100 highly-effective recipes to help unleash your creativity with interactive art, graphics, computer vision, 3D, and more

Artificial Intelligence, Blockchain, and Virtual Worlds - Joanna Penn 2020-11-29

Artificial Intelligence is already embedded in much of our daily lives and it's increasingly moving into realms that impact authors and the publishing industry. We need to embrace the opportunities and engage in conversations around possible threats in order to reinvent our industry for a very different future. The pandemic of 2020 has accelerated converging technologies and changed human behavior across the globe to favor digital business models. In this book, I discuss current technological and societal trends and consider the opportunities for authors and the publishing industry over the next decade. Writing in the age of AI, including Natural Language Generation models like GPT-3 Copyright law, Blockchain for smart contracts, and micro-payments AI-assisted translation Voice technologies, streaming and subscription Virtual worlds and augmented reality Global, digital, mobile. A wave of new writers. It's time to change our business model. If we embrace this wave of converging technology, we can create abundance in our industry, enabling new forms of creativity, growing the market with new products and experiences, and expanding revenue for the entire supply chain. We are creators. We turn ideas in our heads into books in the physical realm. We can use these technologies to surf the wave of change and invent the decade ahead — together. I hope you will join me on the journey.

Time Series Forecasting using Deep Learning - Ivan Grudin 2021-10-15

Explore the infinite possibilities offered by Artificial Intelligence and Neural Networks KEY FEATURES ● Covers numerous concepts, techniques, best practices and troubleshooting tips by community experts. ● Includes practical demonstration of robust deep learning prediction models with exciting use-cases. ● Covers the use of the most powerful research toolkit such as Python, PyTorch, and Neural Network Intelligence. DESCRIPTION This book is aimed at teaching the readers how to apply the deep learning techniques to the time series forecasting challenges and how to build prediction models using PyTorch. The readers will learn the fundamentals of PyTorch in the early stages of the book. Next, the time series forecasting is covered in greater depth after the programme has been developed. You will try to use machine learning to identify the patterns that can help us forecast the future results. It covers methodologies such as Recurrent Neural Network, Encoder-decoder model, and Temporal Convolutional Network, all of which are state-of-the-art neural network architectures. Furthermore, for good measure, we have also introduced the neural architecture search, which automates searching for an ideal neural network design for a certain task. Finally by the end of the book, readers would be able to solve complex real-world prediction issues by applying the models and strategies learnt throughout the course of the book. This book also offers another great way of mastering deep learning and its various techniques. WHAT YOU WILL LEARN ● Work with the Encoder-Decoder concept and Temporal Convolutional Network mechanics. ● Learn the basics of neural architecture search with Neural Network Intelligence. ● Combine standard statistical analysis methods with deep learning approaches. ● Automate the search for optimal predictive architecture. ● Design your custom neural network architecture for specific tasks. ● Apply predictive models to real-world problems of forecasting stock quotes, weather, and natural processes. WHO THIS BOOK IS FOR This book is written for engineers, data scientists, and stock traders who want to build time series forecasting programs using deep learning. Possessing some familiarity of Python is sufficient, while a basic understanding of machine learning is desirable but not needed. TABLE OF CONTENTS 1. Time Series Problems and Challenges 2. Deep Learning with PyTorch 3. Time Series as Deep Learning Problem 4. Recurrent Neural Networks 5. Advanced Forecasting Models 6. PyTorch Model Tuning with Neural Network Intelligence 7. Applying Deep Learning to Real-world Forecasting Problems 8. PyTorch Forecasting Package 9. What is Next?

HBR's 10 Must Reads on AI, Analytics, and the New Machine Age (with bonus article "Why Every Company Needs an Augmented Reality Strategy" by Michael E. Porter and James E. Heppelmann) - Harvard Business Review 2018-12-24

Intelligent machines are revolutionizing business. Machine learning and data analytics are powering a wave of groundbreaking technologies. Is your company ready? If you read nothing else on how intelligent machines are revolutionizing business, read these 10 articles. We've combed through hundreds of Harvard Business Review articles and selected the most important ones to help you understand how these technologies work together, how to adopt them, and why your strategy can't ignore them. In this book you'll

learn how: Data science, driven by artificial intelligence and machine learning, is yielding unprecedented business insights Blockchain has the potential to restructure the economy Drones and driverless vehicles are becoming essential tools 3-D printing is making new business models possible Augmented reality is transforming retail and manufacturing Smart speakers are redefining the rules of marketing Humans and machines are working together to reach new levels of productivity This collection of articles includes "Artificial Intelligence for the Real World," by Thomas H. Davenport and Rajeev Ronanki; "Stitch Fix's CEO on Selling Personal Style to the Mass Market," by Katrina Lake; "Algorithms Need Managers, Too," by Michael Luca, Jon Kleinberg, and Sendhil Mullainathan; "Marketing in the Age of Alexa," by Niraj Dawar; "Why Every Organization Needs an Augmented Reality Strategy," by Michael E. Porter and James E. Heppelmann; "Drones Go to Work," by Chris Anderson; "The Truth About Blockchain," by Marco Iansiti and Karim R. Lakhani; "The 3-D Printing Playbook," by Richard A. D'Aveni; "Collaborative Intelligence: Humans and AI Are Joining Forces," by H. James Wilson and Paul R. Daugherty; "When Your Boss Wears Metal Pants," by Walter Frick; and "Managing Our Hub Economy," by Marco Iansiti and Karim R. Lakhani.

Teaching While Black - Pamela Lewis 2016-03-16

Teaching should never be color-blind. In a world where many believe the best approach toward eradicating racism is to feign ignorance of our palpable physical differences, a few have led the movement toward convincing fellow educators not only to consider race but to use it as the very basis of their teaching. This is what education activist and writer Pamela Lewis has set upon to do in her compelling book, *Teaching While Black: A New Voice on Race and Education in New York City*. As the title suggests, embracing blackness in the classroom can be threatening to many and thus challenging to carry out in the present school system. Unapologetic and gritty, *Teaching While Black* offers an insightful, honest portrayal of Lewis's turbulent eleven-year relationship within the New York City public school system and her fight to survive in a profession that has undervalued her worth and her understanding of how children of color learn best. Tracing her educational journey with its roots in the North Bronx, Lewis paints a vivid, intimate picture of her battle to be heard in a system struggling to unlock the minds of the children it serves, while stifling the voices of teachers of color who hold the key. The reader gains full access to a perspective that has been virtually ignored since the No Child Left Behind Act, through which questions surrounding increased resignation rates by teachers of color and failing test scores can be answered. *Teaching While Black* is both a deeply personal narrative of a black woman's real-life experiences and a clarion call for culturally responsive teaching. Lewis fearlessly addresses the reality of toxic school culture head-on and gives readers an inside look at the inert bureaucracy, heavy-handed administrators, and ineffective approach to pedagogy that prevent inner-city kids from learning. At the heart of Lewis's moving narrative is her passion. Each chapter delves deeper into the author's conscious uncoupling from the current trends in public education that diminish proven remedies for academic underachievement, as observed from her own experiences as a teacher of students of color. *Teaching While Black* summons everyone to re-examine what good teaching looks like. Through a powerful vision, together with practical ideas and strategies for teachers navigating very difficult waters, Lewis delivers hope for the future of teaching and learning in inner-city schools.

Learning Robotics Using Python - Lentin Joseph 2015-05-27

If you are an engineer, a researcher, or a hobbyist, and you are interested in robotics and want to build your own robot, this book is for you. Readers are assumed to be new to robotics but should have experience with Python.

Machine Learning in Python: Hands on Machine Learning with Python Tools, Concepts and Techniques - Bob Mather 2019-07-15

The ability to crunch data effectively can propel your career or business to great heights. Machine Learning is the most effective data analysis tool. While it is a complex topic, it can be broken down into simpler steps, as show in this book. We are using Python, which is a great programming language for beginners.

Ski Race - Eleanor Jupp 2005

Rebecca, Sue, Mark and David are on a skiing holiday in the mountains. It is going to be a fun-filled week with a skiing competition on the last day. Who will win? Recommended for younger readers.

Logistic Regression Using SAS - Paul D. Allison 2012-03-30

Informal and nontechnical, this book both explains the theory behind logistic regression, and looks at all the practical details involved in its implementation using SAS. Includes several real-world examples in full detail.

Experts' Guide to Obsidian - Jeremy P. Jones 2021-10-15

Obsidian is an innovative app for working with ideas, striving to serve as your second brain. That's an ambitious goal and Obsidian is an ambitious app, which has seen its popularity grow leaps and bounds over the past year. This book brings together tips from Expert Obsidian users who've tweaked and finessed their note-taking and sense-making process in Obsidian. In this book, you'll learn how to: * Learn for the long term by focusing on concepts rather than traditional notes; * Push your creative juices by discovering connections between concepts; * Manage a publishing workflow using a Kanban board, from capturing initial ideas to developing these through to completion; * Plan and organize your day in Obsidian, tracking your regular work and documenting your creative journey; * Work efficiently in Obsidian with shortcuts, templates and several plugins to boost your creative process. This book presents Experts' use of Obsidian. For a ground-up understanding of key concepts and techniques in Obsidian, pick up the related book "Master Obsidian Quickly - Boost Your Learning & Productivity with a Free, Modern, Powerful Knowledge Toolkit" by the same author.

Build a Career in Data Science - Emily Robinson 2020-03-06

Summary You are going to need more than technical knowledge to succeed as a data scientist. Build a Career in Data Science teaches you what school leaves out, from how to land your first job to the lifecycle of a data science project, and even how to become a manager. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology What are the keys to a data scientist's long-term success? Blending your technical know-how with the right "soft skills" turns out to be a central ingredient of a rewarding career. About the book Build a Career in Data Science is your guide to landing your first data science job and developing into a valued senior employee. By following clear and simple instructions, you'll learn to craft an amazing resume and ace your interviews. In this demanding, rapidly changing field, it can be challenging to keep projects on track, adapt to company needs, and manage tricky stakeholders. You'll love the insights on how to handle expectations, deal with failures, and plan your career path in the stories from seasoned data scientists included in the book. What's inside Creating a portfolio of data science projects Assessing and negotiating an offer Leaving gracefully and moving up the ladder Interviews with professional data scientists About the reader For readers who want to begin or advance a data science career. About the author Emily Robinson is a data scientist at Warby Parker. Jacqueline Nolis is a data science consultant and mentor. Table of Contents: PART 1 - GETTING STARTED WITH DATA SCIENCE 1. What is data science? 2. Data science companies 3. Getting the skills 4. Building a portfolio PART 2 - FINDING YOUR DATA SCIENCE JOB 5. The search: Identifying the right job for you 6. The application: Résumés and cover letters 7. The interview: What to expect and how to handle it 8. The offer: Knowing what to accept PART 3 - SETTLING INTO DATA SCIENCE 9. The first months on the job 10. Making an effective analysis 11. Deploying a model into production 12. Working with stakeholders PART 4 - GROWING IN YOUR DATA SCIENCE ROLE 13. When your data science project fails 14. Joining the data science community 15. Leaving your job gracefully 16. Moving up the ladder

Fundamentals of Deep Learning and Computer Vision - Nikhil Singh 2020-02-24

Master Computer Vision concepts using Deep Learning with easy-to-follow steps DESCRIPTION This book starts with setting up a Python virtual environment with the deep learning framework TensorFlow and then introduces the fundamental concepts of TensorFlow. Before moving on to Computer Vision, you will learn about neural networks and related aspects such as loss functions, gradient descent optimization, activation functions and how backpropagation works for training multi-layer perceptrons. To understand how the Convolutional Neural Network (CNN) is used for computer vision problems, you need to learn about the basic convolution operation. You will learn how CNN is different from a multi-layer perceptron along with a thorough discussion on the different building blocks of the CNN architecture such as kernel size, stride, padding, and pooling and finally learn how to build a small CNN model. Next, you will learn about different popular CNN architectures such as AlexNet, VGGNet, Inception, and ResNets along with different object detection algorithms such as RCNN, SSD, and YOLO. The book concludes with a chapter on sequential

models where you will learn about RNN, GRU, and LSTMs and their architectures and understand their applications in machine translation, image/video captioning and video classification. KEY FEATURES Setting up the Python and TensorFlow environment Learn core Tensorflow concepts with the latest TF version 2.0 Learn Deep Learning for computer vision applications Understand different computer vision concepts and use-cases Understand different state-of-the-art CNN architectures Build deep neural networks with transfer Learning using features from pre-trained CNN models Apply computer vision concepts with easy-to-follow code in Jupyter Notebook WHAT WILL YOU LEARN This book will help the readers to understand and apply the latest Deep Learning technologies to different interesting computer vision applications without any prior domain knowledge of image processing. Thus, helping the users to acquire new skills specific to Computer Vision and Deep Learning and build solutions to real-life problems such as Image Classification and Object Detection. This book will serve as a basic guide for all the beginners to master Deep Learning and Computer Vision with lucid and intuitive explanations using basic mathematical concepts. It also explores these concepts with popular the deep learning framework TensorFlow. WHO THIS BOOK IS FOR This book is for all the Data Science enthusiasts and practitioners who intend to learn and master Computer Vision concepts and their applications using Deep Learning. This book assumes a basic Python understanding with hands-on experience. A basic senior secondary level understanding of Mathematics will help the reader to make the best out of this book. Table of Contents 1. Introduction to TensorFlow 2. Introduction to Neural Networks 3. Convolutional Neural Network 4. CNN Architectures 5. Sequential Models

The Quebec Permanent Building Society, Founded in 1856 [microform] - Quebec Permanent Building Society 2021-09-09

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Adobe Illustrator - Jason Hoppe 2020-02-07

Adobe Illustrator: A Complete Course and Compendium of Features is your guide to building vector graphics, whether you're creating logos, icons, drawings, typography, or other illustrations—and regardless of their destination: print, web, video, or mobile. First, with a complete Course that includes a set of projects and lessons derived from Adobe Certified Instructor Jason Hoppe, you will learn the procedures needed to use Illustrator effectively and professionally. Dozens of lessons are included that can be applied to any graphics you have in mind. Through these step-by-step lessons, you'll be exposed to all of Illustrator's features in practical contexts and its best practices for optimal workflows.

To complete the Course, we'll supply lesson documents and their assets to download. These can even serve as starting points for your own projects.

Then, for greater depth of knowledge and subsequent reference, you'll use the Compendium to uncover more of the "how" and "why" of Illustrator. With each topic easy to access, you can find and explore all of Illustrator's key features and concepts in depth. With cross references between the Course and Compendium, the two parts of the book complement each other perfectly. Best of all, when the lessons in the Course are done, the Compendium will continue to serve for months and years to come.

Learn step by step how to:

- Draw basic shapes and lines

- Build graphics using Illustrator's deep and diverse toolset
- Create complex icons using the Pathfinder and Shape Builder
- Use color with predictable and harmonic results
- Work effectively with type
- And much more!

Canva Tips and Tricks Beyond The Limits - Koushik K 2020-12-11

Tensorflow in 1 Day: Make Your Own Neural Network - Krishna Rungta 2018-09-05

Tensorflow is the most popular Deep Learning Library out there. It has fantastic graph computations feature which helps data scientist to visualize his designed neural network using TensorBoard. This Machine learning library supports both Convolution as well as Recurrent Neural network. It supports parallel processing on CPU as well as GPU. Prominent machine learning algorithms supported by TensorFlow are Deep Learning Classification, wip & deep, Boston Tree amongst others. The book is very hands-on and gives you industry ready deep learnings practices. Here is what is covered in the book

Player's Option: Heroes of the Feywild - Mike Mearls 2011-06-30
This book enables players to weave elements of the Feywild into their existing and future characters. It contains exciting new character builds and options that are thematically rooted to the Feywild, a wild and verdant plane of arcane splendor, full of dangerous and whimsical creatures.

Data Science - Vijay Kotu 2018-11-27

Learn the basics of Data Science through an easy to understand conceptual framework and immediately practice using RapidMiner platform. Whether you are brand new to data science or working on your tenth project, this book will show you how to analyze data, uncover hidden patterns and relationships to aid important decisions and predictions. Data Science has become an essential tool to extract value from data for any organization that collects, stores and processes data as part of its operations. This book is ideal for business users, data analysts, business analysts, engineers, and analytics professionals and for anyone who works with data. You'll be able to: Gain the necessary knowledge of different data science techniques to

extract value from data. Master the concepts and inner workings of 30 commonly used powerful data science algorithms. Implement step-by-step data science process using using RapidMiner, an open source GUI based data science platform Data Science techniques covered: Exploratory data analysis, Visualization, Decision trees, Rule induction, k-nearest neighbors, Naïve Bayesian classifiers, Artificial neural networks, Deep learning, Support vector machines, Ensemble models, Random forests, Regression, Recommendation engines, Association analysis, K-Means and Density based clustering, Self organizing maps, Text mining, Time series forecasting, Anomaly detection, Feature selection and more... Contains fully updated content on data science, including tactics on how to mine business data for information Presents simple explanations for over twenty powerful data science techniques Enables the practical use of data science algorithms without the need for programming Demonstrates processes with practical use cases Introduces each algorithm or technique and explains the workings of a data science algorithm in plain language Describes the commonly used setup options for the open source tool RapidMiner

Hands-On Motion Graphics with Adobe After Effects CC - David Dodds 2019-04-27

Discover techniques to enhance your videos with complex animation Key FeaturesDesign, animate, and sequence a complete motion graphics projectWork with compositions and pre-compositions to create animations speedilyMaximize your motion graphics and visual effects skillsBook Description If you're thinking seriously about making and publishing your videos with professional editing and animation, look no further! Adobe After Effects is a popular tool among video editors and YouTubers to enhance their videos and bring them to life by implementing visual effects and motion graphics. This book will take you right from the basics through to the advanced techniques in Adobe After Effects CC 2018. You will start by setting up your editing environment to learn and improve techniques to sharpen your video editing skills. Furthermore, you will work with basic and advanced special effects to create, modify, and optimize motion graphics in your videos. Lastly, you will not only learn how to create 2.5D animations, but also get to grips with using Cinema 4D Lite to build and animate complete 3D scenes. By the end of the book, you'll have learned how to package a video efficiently with the help of the projects covered. What you will learnCreate a lower third project for a TV show with complex layersWork with shape layer animation to create an animated lyrics videoExplore different tools to animate charactersApply text animation to create a dynamic film-opening titleUse professional visual effects to create a VFX projectModel, light, and composite your 3D project in After EffectsWho this book is for If you're a student, professional, YouTuber, or anyone who is interested in video editing, animation, and motion graphics, this book is for you. You'll also find this resource useful if you're an Illustrator looking to put your creations in motion.