

Sd Memory Card Formatter

Raspberry Pi and MQTT Essentials Penetration Testing with Raspberry Pi Make a Raspberry Pi-Controlled Robot Mastering the Nikon D800 20 Easy Raspberry Pi Projects Mastering the Nikon Macromedia Flash Enabled Single-Sensor Imaging David Busch's Canon EOS R10 Guide to Digital Photography Canon EOS R7: A Complete Guide from Beginner to Advanced Level Magic Lantern Guides®: Nikon D3 Nikon D3500 For Dummies Canon EOS-1D Mark II, EOS-1Ds Mark II Mastering the Nikon D7200 Canon EOS 6D Nikon D3400 For Dummies Mastering the Nikon D850 Embedded SoPC Design with Nios II Processor and VHDL Examples Canon Rebel T6/EOS 1300D Magic Lantern Guides®: Nikon D60 Dhairya Parikh Joseph Muniz Wolfram Donat Darrell Young Rui Santos Darrell Young Christian Cantrell Rastislav Lukac David D. Busch Steven Walryn Simon Stafford Julie Adair King Adam Christopher Darrell Young Colby Brown Julie Adair King Darrell Young Pong P. Chu David Taylor Simon Stafford

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get familiar with all the concepts related to raspberry pi and mqtt build innovative iot projects and discover how to scale these projects to the next level key features learn some of the most popular tools used in iot raspberry pi mqtt esp8266 and more build exciting projects such as an iot weather station and a smart switch board discover the advantages of taking your mqtt broker global book description the future of iot has the potential to be limitless wouldn't it be great if you could add it to your own technological stacks but where to start with the basics of course in this book you will start by learning about the most popular hardware and communication protocol raspberry pi and mqtt you will see how to use them together by setting up your own mqtt server on raspberry pi and understand how it works this book explores mqtt in detail including the clients and devices that you can connect to your server you will discover two very popular iot development boards among project developers the

esp8266 and esp32 development boards then you will learn how to build interactive dashboards on your pi and monitor your client devices the book also shows you how to build a dashboard using another popular software node red you will be able to put your skills to the test by creating two full scale projects that s not all you will also learn how to host your own mqtt server on a virtual cloud service finally you will be guided on how to move forward from here what technologies to learn and some project recommendations to polish or test your knowledge by the end of this book you will be able to build meaningful projects using raspberry pi and mqtt and create dashboards for your projects on node red what you will learn configure and use a raspberry pi for iot projects implement the mqtt communication protocol for projects understand how to set up the nodemcu and esp32 boards as mqtt clients control a nodemcu board through a node red dashboard hosted on raspberry pi get lamp server home assistant and mariadb on the raspberry pi set up an online mqtt broker on a cloud service or enterprise service provider platform build full scale end to end prototype projects who this book is for this book is for students who are interested in iot and want to build projects using the available developer hardware educators who want to introduce a course on iot into their curriculum technology enthusiasts and iot developers who are just getting started will also benefit from this book no prior knowledge about the two main topics that the book covers is required raspberry pi and mqtt a basic understanding of what iot is will also be useful but not mandatory

if you are looking for a low budget small form factor remotely accessible hacking tool then the concepts in this book are ideal for you if you are a penetration tester who wants to save on travel costs by placing a low cost node on a target network you will save thousands by using the methods covered in this book you do not have to be a skilled hacker or programmer to use this book it will be beneficial to have some networking experience however it is not required to follow the concepts covered in this book

make a raspberry pi controlled robot teaches you how to build a capable and upgradeable personal robot for around 100 you ll learn how to control servos respond to sensor input and know where your bot is using gps you ll also learn many ways to connect to your robot and send it instructions from an ssh connection to sending text messages from your phone

mastering the nikon d800 by darrell young provides a wealth of experience based information and insights for owners of the new d800 camera darrell is determined to help the user navigate past the confusion that often comes with complex and powerful professional camera equipment this book explores the features and capabilities of the camera in a way that far surpasses the user s manual it guides readers through the camera features with step by step setting adjustments color illustrations and detailed how when and why explanations for each option every button dial switch and menu configuration setting is explored in a user friendly manner with suggestions for setup according to various shooting styles darrell s friendly and informative writing style allows readers to easily follow directions while feeling as if a friend dropped in to share his knowledge the learning experience for

new d800 users goes beyond just the camera itself and covers basic photography technique

twenty projects using the raspberry pi a tiny and affordable computer for beginners looking to make cool things right away projects are explained with full color visuals and simple step by step instructions 20 easy raspberry pi projects is a beginner friendly collection of electronics projects perfectly suited for kids parents educators and hobbyists looking to level up their hardware skills after a crash course to get you set up with your raspberry pi you ll learn how to build interactive projects like a digital drum set a wifi controlled robot a pong game an intruder alarm that sends email notifications a gas leak detector a weather forecaster and iot gadgets that control electronics around the house along the way you ll work with core components like lcd screens cameras sensors and even learn how to set up your own server each project provides step by step instructions full color photos and circuit diagrams and the complete code to bring your build to life if you re ready to hit the ground running and make something interesting let 20 easy raspberry pi projects be your guide

mastering the nikon d810 by darrell young provides a wealth of experience based information and insights for owners of the new d810 camera darrell is determined to help the user navigate past the confusion that often comes with complex and powerful professional camera equipment this book explores the features and capabilities of the camera in a way that far surpasses the user s manual it guides readers through the camera features with step by step setting adjustments color illustrations and detailed how when and why explanations for each option every button dial switch and menu configuration setting is explored in a user friendly manner with suggestions for setup according to various shooting styles darrell s friendly and informative writing style allows readers to easily follow directions while feeling as if a friend dropped in to share his knowledge the information in this book goes beyond the camera itself and also covers basic photography technique

this is the only book available on flash development for multiple devices asit guides flash designers and developers in creating content and applicationsfor multiple devices with flash and other tools

a decade of extraordinary growth the past decade has brought a surge of growth in the technologies for digital color imaging multidimensional signal processing and visual scene analysis these advances have been crucial to developing new camera driven applications and commercial products in digital photography single sensor imaging methods and applications for digital cameras embraces this extraordinary progress comprehensively covering state of the art systems processing techniques and emerging applications experts address challenges and trends single sensor imaging methods and applications for digital cameras presents leading experts elucidating their own accomplishments in developing the technologies reshaping this field the editor invited renowned authorities to address specific research challenges and recent trends in their particular areas of expertise the book discusses single sensor digital color imaging fundamentals including reusable embedded software platform digital camera image processing chain optical filter and color filter array designs it also

details the latest techniques and approaches in contemporary and traditional digital camera color image processing and analysis for various sophisticated applications including demosaicking and color restoration white balancing and color transfer color and exposure correction image denoising and color enhancement image compression and storage formats red eye detection and removal image resizing video demosaicking and superresolution imaging image and video stabilization a solid foundation of knowledge to solve problems single sensor imaging methods and applications for digital cameras builds a strong fundamental understanding of theory and methods for solving many of today's most interesting and challenging problems in digital color image and video acquisition analysis processing and storage a broad survey of the existing solutions and relevant literature makes this book a valuable resource both for researchers and those applying rapidly evolving digital camera technologies

David Busch's Canon EOS R10 guide to digital photography is your all in one comprehensive resource and reference for the highly affordable APS-C format Canon EOS R10 beginners and budding enthusiasts alike will appreciate this 24 megapixel camera's action friendly 23 frames per second continuous shooting capabilities image stabilization built into many RF mount lenses including two all new RF optics introduced with the camera virtually eliminates blur from camera shake at slow shutter speeds three available adapters make it easy to supplement your RF mount lenses with a broad selection of legacy Canon EF and EF-S lenses the R10 has wireless connectivity to computers and smart devices and high definition 4K and full HD movie making capabilities with this book in hand you can quickly apply all these advanced features to your digital photography while boosting your creativity to take great photographs with your Canon EOS R10 filled with detailed how to steps and full color illustrations David Busch's Canon EOS R10 guide to digital photography covers all this upscale camera's features in depth from taking your first photos through advanced details of setup exposure lens selection lighting and more and relates each feature to specific photographic techniques and situations also included is the handy roadmap chapter an easy to use visual guide to the camera's features and controls learn when to use each option and more importantly when not to use them by following the author's recommended settings for every menu entry with best selling photographer and mentor David Busch as your guide you'll quickly have full creative mastery of your camera's capabilities whether you're shooting on the job as an advanced enthusiast or are just out for fun start building your knowledge and confidence while bringing your vision to light with the Canon EOS R10

Professional photographers and videographers will appreciate the Canon EOS R7 a top tier mirrorless camera it has a full frame 30.3MP CMOS sensor can record 4K video and has Dual Pixel AF with up to 5655 focus points the Canon EOS R7 is an advanced digital camera with state of the art options for photographers the article expands on the Canon EOS R7's capabilities technical specs and applications the Canon EOS R7 is a robust digital camera with a variety of options card compatibility is an essential feature it is essential that you be aware of the specific types of memory cards that work with the Canon EOS R7 to ensure that you can save all of your images and movies in an appropriate manner how to

choose the best memory card for your canon eos r7 is covered in this book

perfect for professional photographers this book offers an extremely thorough guide to every feature function menu setting custom setting and image processing function on this extremely complex fx format pro model written by a highly regarded technical expert on nikon gear and our topbest selling magic lantern guides author

use your nikon d3500 camera like the pros capturing frame worthy photos is no easy feat until now inside author julie king shares her experience as a professional photographer and photography teacher to help you get picture perfect landscapes portraits action shots and more with your nikon d3500 digital slr camera it takes more than a good eye and an amazing camera to get shots like the pros with the help of nikon d3500 for dummies you ll find all the expert advice and know how you need to unlock your camera s capabilities to their fullest potential from working with the basics of lighting and exposure to making sense of your camera s fanciest features you ll be snapping professional grade photos in a flash learn the five essential options for shooting quality photos understand the settings that control exposure take charge of color and focus features put your skills together to shoot portraits close ups and action shots whether you re shooting in automatic mode scene mode or manual mode you ll get all the guidance you need to take photos you ll be proud to share

canon s got an impressive hot new pro level digital slr camera and photographers will want to understand how to use every one of its up to the minute functions with magic lantern they will it goes well beyond the camera s instruction manual and explains how to handle all the decisive moments in shooting the action find out how to take advantage of the camera s 8 2 megapixel resolution from its low noise cmos sensor learn how to set digital shooting speed records with the mark ii s 8 5 frames per second drive and high speed jpeg image buffer it can buffer 69 megapixels per second you ll understand all the camera s ins and outs meet all the challenges of professional shooting and get amazing results

now that you ve bought the amazing canon eos 6d you need a book that goes beyond a tour of the camera s features to show you exactly how to use the camera to take great pictures with canon eos 6d from snapshots to great shots you get the perfect blend of photography instruction and camera reference that will take your images to the next level beautifully illustrated with large vibrant photos this book teaches you how to take control of your photography to get the image you want every time you pick up the camera follow along with your friendly and knowledgeable guide photographer and author colby brown and you will learn the top ten things you need to know about shooting with the 6d use the camera s automatic modes to get better shots right away move on to the professional zone where you have full control over the look and feel of your images master the photographic basics of composition focus depth of field and much more learn all the best tricks and techniques for getting great action shots landscapes and portraits find out how to get great shots in low light learn how to

shoot video with your 6d and start making movies on your own fully grasp all the concepts and techniques as you go with assignments at the end of every chapter and once you've got the shot show it off join the book's flickr group share your photos and discuss how you use your 6d to get great shots at flickr.com groups/canon6dfromsnapshotstogreatshots

discover the essentials to getting better photos with the nikon dslr d3400 the nikon d3400 hits stores as nikon's most advanced entry level dslr camera along with the pixel power to deliver sharp images it also offers tools to be instantly creative and quickly share photos to a smartphone this book will get you up to speed on the d3400 in a flash teaching you all the basic photography skills needed to get great shots from a dslr camera while also giving you clear hands-on guidance through the d3400's specific controls nikon d3400 for dummies helps you learn the ins and outs of the nikon d3400 including how to get started right away in auto mode get creative with scene modes and take full control in manual mode filled with practical easy-to-follow instructions this book will help you transform from an inexperienced beginner to an advanced shutterbug whose shots could grace the cover of any popular magazine get the lowdown on the controls and settings on a nikon d3400 learn how pro photographers set their cameras to get better shots discover the tools that control your camera's exposure settings put your newfound knowledge together to shoot better portraits action shots and low light images if you're ready to put down your dinky dim-lit non-zooming smartphone and pick up a real professional grade dslr camera do so with the help of nikon d3400 for dummies

i mastering the nikon d850 i by darrell young provides a wealth of experience-based information and insights for owners of the new d850 camera darrell is determined to help the user navigate past the confusion that often comes with complex and powerful professional camera equipment p p this book explores the features and capabilities of the camera in a way that far surpasses the user's manual it guides readers through the camera features with step-by-step setting adjustments color illustrations and detailed how-when-and-why explanations for each option every button dial switch and menu configuration setting is explored in a user-friendly manner with suggestions for setup according to various shooting styles p p darrell's friendly and informative writing style allows readers to easily follow directions while feeling as if a friend dropped in to share his knowledge the information in this book goes beyond the camera itself and also covers basic photography technique p p p1 margin 0 0px 0 0px 0 0px font 11 0px verdana p p2 margin 0 0px 0 0px 0 0px font 11 0px verdana min height 13 0px

the book is divided into four major parts part i covers hdl constructs and synthesis of basic digital circuits part ii provides an overview of embedded software development with the emphasis on low-level i/o access and drivers part iii demonstrates the design and development of hardware and software for several complex i/o peripherals including ps2 keyboard and mouse a graphic video controller an audio codec and an sd secure digital card part iv provides three case studies of the integration of hardware accelerators including a custom gcd greatest common divisor circuit a

mandelbrot set fractal circuit and an audio synthesizer based on ddfs direct digital frequency synthesis methodology the book utilizes fpga devices nios ii soft core processor and development platform from altera co which is one of the two main fpga manufactures altera has a generous university program that provides free software and discounted prototyping boards for educational institutions details at altera.com/university the two main educational prototyping boards are known as de1-99 and de2-269 all experiments can be implemented and tested with these boards a board combined with this book becomes a turn key solution for the soc design experiments and projects most hdl and c codes in the book are device independent and can be adapted by other prototyping boards as long as a board has similar i/o configuration

the canon rebel t6 eos 1300d is a budget friendly entry level dslr an upgrade on the extremely popular rebel t5 eos 1200d this book offers the perfect guide to mastering the full creative possibilities of this camera

photographers will be happy to see this successor to nikon's user friendly d40x small and light it's perfect for those moving up from compact digital cameras and it's better than ever with its enhanced retouch menu options new expedited digital image processing for refined tone and color lightning like start up time and active d lighting that improves image quality in high contrast conditions magic lantern dvd guide provides a perfect introduction to the model while the book written by nikon expert simon stafford will take them even more deeply into the camera's every function

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