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In 1963 Claude Parent and Paul Virilio formed the "Architecture Principe" group with the aim of investigating a new kind of architectural and urban order. This publication provides a record of their experimental research. Build maintainable websites with elegant Django design patterns and modern best practices Key Features Explore aspects of Django from Models and Views to testing and deployment Understand the nuances of web development such as browser attack and data design Walk through various asynchronous tools such as Celery and Channels Book Description Building secure and maintainable web applications requires comprehensive knowledge. The second edition of this book not only sheds light on Django, but also encapsulates years of experience in the form of design patterns and best practices. Rather than sticking to GoF design patterns, the book looks at higher-level patterns. Using the latest version of Django and Python, you'll learn about Channels and asyncio while building a solid conceptual background. The book compares design choices to help you

make everyday decisions faster in a rapidly changing environment. You'll first learn about various architectural patterns, many of which are used to build Django. You'll start with building a fun superhero project by gathering the requirements, creating mockups, and setting up the project. Through project-guided examples, you'll explore the Model, View, templates, workflows, and code reusability techniques. In addition to this, you'll learn practical Python coding techniques in Django that'll enable you to tackle problems related to complex topics such as legacy coding, data modeling, and code reusability. You'll discover API design principles and best practices, and understand the need for asynchronous workflows. During this journey, you'll study popular Python code testing techniques in Django, various web security threats and their countermeasures, and the monitoring and performance of your application. What you will learn

- Make use of common design patterns to help you write better code
- Implement best practices and idioms in this rapidly evolving framework
- Deal with legacy code and debugging
- Use asynchronous tools such as Celery, Channels, and asyncio
- Use patterns while designing API interfaces with the Django REST Framework
- Reduce the maintenance burden with well-tested, cleaner code
- Host, deploy, and secure your Django projects

Who this book is for This book is for you whether you're new to Django or just want to learn its best practices. You do not have to be an expert in Django or Python. No prior knowledge of patterns is expected for reading this book but it would be helpful. Completely updated for Django 4.2!

Django for Beginners is a project-based introduction to Django, the popular Python-based web framework. Suitable for total beginners who have never built a website before as well as professional programmers looking for a fast-paced guide to modern web development and Django fundamentals. In the book you'll learn how to:

- * Build 5 websites from scratch, including a Blog and Newspaper
- * Deploy online using security best practices
- * Implement signup, login, logout, password change, and password reset
- * Customize the look and feel of your sites
- * Write tests and run them for all your code
- * Add permissions and authorizations to make your app more secure

If you're curious about Python-based web development, Django for Beginners is a best-practices guide to writing and deploying your own websites quickly. A step-by-step that will help you build Microservices architecture using Django and Python

KEY FEATURES

- a- Understand in-depth the fundamentals of Microservices
- a- Learn how to create and use Django APIs
- a- Use web technology such as Nginx, Gunicorn, UWSGI, and Postgresql to deploy a Django project

DESCRIPTION Microservices architectures solve the multiple problems of software architecture. Django is a full-stack development framework, written in python. This book includes everything necessary for web application development; from the user views to the information storage: model, persistence, relationships, controllers, forms, validations, rest API and a very useful back office. Furthermore, the book will show how to build production-ready microservices. It will help you create restful APIs and get familiar with Redis and Celery. Towards the end, the book will show how to secure these services and deploy these microservices using Django. Lastly, it will show how to scale our

services. WHAT WILL YOU LEARN a- Understand the basics of Python, Django, and Microservices a- Learn how to deploy Microservices with Django a- Get familiar with Microservices Architecture - Designing, Principles, and Requirements a- Implement Asynchronous task, JWT API Authentication and AWS Serverless with Microservice architecture WHO THIS BOOK IS FOR This book is for those beginners who want to make their careers in software development. It starts from the basics of python and Django, takes the reader to the Microservices architecture. Table of Contents1. Basic of Python2. Major Pillars of OOPS with Python3. Getting Started with Django4. API Development with Django5. Database Modeling with Django6. First Django API Deployment on Web7. Django Project Deployment on various web servers8. What are Microservices9. Designing Microservice Systems10. Service Authentication11. Microservices Deployment With Django12. JWT Auth Service13. Asynchronous Tasks14. AWS Serverless15. How to Adopt Microservices in Practice About the Author Shayank Jain is a software developer and data analyst. He is strongly passionate about coding and architectural design. He has more than 6.5 years of professional experience in developing scalable software solutions for various organizations. He has been programming since the age of 16 and has developed software for mobile, web, hardware gaming and standalone applications. After getting his hands dirty with programming, he found many new ways to debug and deploy the code successfully with minimal time constraints. After reading and implementing, he found out that many critical concepts can be implemented easily in programming with correct and focused thinking. His research interests include information security, cryptography, analysis, design, and implementation of algorithms. He has extensively worked with python and implemented new ideas on various projects in his free time. He is also active in the computer science and education community. Through this book, he wants to share these methodologies and tricks with the beginners. Outside work, Shayank spends his spare time helping, coaching, and mentoring young people in taking up careers in technology. Your Blog links: <https://shayankit.wixsite.com/intro25>Your LinkedIn Profile: <https://www.linkedin.com/in/shayankjain> Learn algorithms for solving classic computer science problems with this concise guide covering everything from fundamental algorithms, such as sorting and searching, to modern algorithms used in machine learning and cryptography Key Features Learn the techniques you need to know to design algorithms for solving complex problems Become familiar with neural networks and deep learning techniques Explore different types of algorithms and choose the right data structures for their optimal implementation Book Description Algorithms have always played an important role in both the science and practice of computing. Beyond traditional computing, the ability to use algorithms to solve real-world problems is an important skill that any developer or programmer must have. This book will help you not only to develop the skills to select and use an algorithm to solve real-world problems but also to understand how it works. You'll start with an introduction to algorithms and discover various algorithm design techniques, before exploring how to implement different types of

algorithms, such as searching and sorting, with the help of practical examples. As you advance to a more complex set of algorithms, you'll learn about linear programming, page ranking, and graphs, and even work with machine learning algorithms, understanding the math and logic behind them. Further on, case studies such as weather prediction, tweet clustering, and movie recommendation engines will show you how to apply these algorithms optimally. Finally, you'll become well versed in techniques that enable parallel processing, giving you the ability to use these algorithms for compute-intensive tasks. By the end of this book, you'll have become adept at solving real-world computational problems by using a wide range of algorithms. What you will learn

- Explore existing data structures and algorithms found in Python libraries
- Implement graph algorithms for fraud detection using network analysis
- Work with machine learning algorithms to cluster similar tweets and process Twitter data in real time
- Predict the weather using supervised learning algorithms
- Use neural networks for object detection
- Create a recommendation engine that suggests relevant movies to subscribers
- Implement foolproof security using symmetric and asymmetric encryption on Google Cloud Platform (GCP)

Who this book is for This book is for programmers or developers who want to understand the use of algorithms for problem-solving and writing efficient code. Whether you are a beginner looking to learn the most commonly used algorithms in a clear and concise way or an experienced programmer looking to explore cutting-edge algorithms in data science, machine learning, and cryptography, you'll find this book useful. Although Python programming experience is a must, knowledge of data science will be helpful but not necessary. Django is a popular Python-based framework for web application development. Like Python, Django is easy for beginners to learn and enables constant progress. This book will help aspiring web developers gain the skills to use Django to develop robust web apps.

Hypertension remains a leading cause of disability and death worldwide. Self-monitoring of blood pressure by patients at home is currently recommended as a valuable tool for the diagnosis and management of hypertension. Unfortunately, in clinical practice, home blood pressure monitoring is often inadequately implemented, mostly due to the use of inaccurate devices and inappropriate methodologies. Thus, the potential of the method to improve the management of hypertension and cardiovascular disease prevention has not yet been exhausted. This volume presents the available evidence on home blood pressure monitoring, discusses its strengths and limitations, and presents strategies for its optimal implementation in clinical practice. Written by distinguished international experts, it offers a complete source of information and guide for practitioners and researchers dealing with the management of hypertension. Update! The third edition, *Two Scoops of Django: Best Practices For Django 1.8* is available! Revised and expanded to 532 pages, it's a whole new book full of new material. Please consider it before purchasing this edition! <http://www.amazon.com/Two-Scoops-Django-Best-Practices/dp/0981467342> *Two Scoops of Django: Best Practices For Django 1.5* is chock-full of material that will help you with your Django projects. We'll

introduce you to various tips, tricks, patterns, code snippets, and techniques that we've picked up over the years. We have put thousands of hours into writing and revising its 300+ pages of concise, example-packed text. What is everyone saying about Two Scoops of Django? "A single read-through of Two Scoops of Django gave me so many lightbulbs and tips; I had to go back for a second helping." -- Lynn Root, Red Hat engineer and PyLadies ambassador. Ha ha, I learned something in the first chapter. Awesome. -- Zed Shaw, Author of Learn Python the Hard Way. Two Scoops should provide some food for thought and usable recommendations for anybody using Django regularly. -- Malcolm Tredinnick, Django Core Contributor Make sure you have your favorite project next to you while reading. You'll be doing some rewriting. -- Bryan Veloso, GitHubber, PyCon PH Keynote Speaker If I could time travel, the first thing I'd do would be give my younger self a copy of this book, and make him read it. -- Randall Degges, Passionate Python Hacker You know those lessons you learn when projects blow up in your face? This book contains several projects worth of such lessons. -- Lennart Regebro, author of "Porting to Python 3" This book should prove to be an amazing resource for any new-to-Django developer that picks it up. -- Kenneth Love, Creator of "Getting Started with Django" No matter what your skill level is, Two Scoops has solid tips for everyone. -- Jeff Triplett, Developer at Revsys This is the book I wished had existed and I could have read when I started learning Django. -- Barry Morrison, Linux systems engineer and Django developer Two Scoops of Django is by far the best Django book I've read. -- Ben Beecher on Twitter Are there any negatives? Well yes. Only one: I wish I've read it earlier! -- Branko Vukelic

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If you want to learn how best to utilize commonly found patterns and learn best practices in developing applications with Django, this is the book for you. This book, like Django itself, is accessible to amateur and professional developers alike and assumes little in the way of prior experience. Although written for Python 3, the majority of the code in

this book works in Python 2 or can be easily translated. Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to:

- Build an accurate threat model for your vehicle
- Reverse engineer the CAN bus to fake engine signals
- Exploit vulnerabilities in diagnostic and data-logging systems
- Hack the ECU and other firmware and embedded systems
- Feed exploits through infotainment and vehicle-to-vehicle communication systems
- Override factory settings with performance-tuning techniques
- Build physical and virtual test benches to try out exploits safely

If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop. "Introduces you to various tips, tricks, patterns, code snippets, and techniques"--Page 4 of cover.

Tackle inefficiencies and errors the Pythonic way

Key Features

- Enhance your coding skills using the new features introduced in Python 3.9
- Implement the refactoring techniques and SOLID principles in Python
- Apply microservices to your legacy systems by implementing practical techniques

Book Description

Experienced professionals in every field face several instances of disorganization, poor readability, and testability due to unstructured code. With updated code and revised content aligned to the new features of Python 3.9, this second edition of Clean Code in Python will provide you with all the tools you need to overcome these obstacles and manage your projects successfully. The book begins by describing the basic elements of writing clean code and how it plays a key role in Python programming. You will learn about writing efficient and readable code using the Python standard library and best practices for software design. The book discusses object-oriented programming in Python and shows you how to use objects with descriptors and generators. It will also show you the design principles of software testing and how to resolve problems by implementing software design patterns in your code. In the concluding chapter, we break down a monolithic application into a microservices-based one starting from the code as the basis for a solid platform. By the end of this clean code book, you will be proficient in applying industry-approved coding practices to design clean, sustainable, and readable real-world Python code. What you will learn

- Set up a productive development environment by leveraging automatic tools
- Leverage the magic methods in Python to write better code, abstracting complexity away and encapsulating

details Create advanced object-oriented designs using unique features of Python, such as descriptors Eliminate duplicated code by creating powerful abstractions using software engineering principles of object-oriented design Create Python-specific solutions using decorators and descriptors Refactor code effectively with the help of unit tests Build the foundations for solid architecture with a clean code base as its cornerstone Who this book is for This book is designed to benefit new as well as experienced programmers. It will appeal to team leads, software architects and senior software engineers who would like to write Pythonic code to save on costs and improve efficiency. The book assumes that you have a strong understanding of programming Best engineer's reference on antennas. Table of Contents: Introduction to Antennas; Fundamentals of Antennas; Arrays of Discrete Elements; Dipoles and Monopoles; Loop Antennas; Small Antennas; Microstrip Antennas; Slot Antennas; Slot-Antenna Arrays; Leaky-Wave Antennas; Long-Wire Antennas; Surface-Wave Antennas and Surface-Wave Excited Arrays; Helical Antennas; Frequency-Independent Antennas; Horn Antennas; Lens Antennas; Reflector Antennas; Feeds for Lenses and Reflectors; Electromechanical Scanning Antennas; Frequency-Scan Antennas; Phased Arrays; Conformal and Low-Profile Arrays; Adaptive Antennas; Methods of Polarization Synthesis; Low-Frequency Antennas; Medium-Frequency Broadcast Antennas; High-Frequency Antennas; VHF and UHF Communications Antennas; and more. Index. 800 illustrations. "Django is a high-level Python web framework that encourages the rapid development of maintainable applications. Two scoops of Django introduces you to various tips, tricks, patterns, code snippets, and techniques . . ."--Page 4 of cover. Design, build and test RESTful web services with the Django framework and Python Key Features Create efficient real-world RESTful web services with the latest Django framework Authenticate, secure, and integrate third-party packages efficiently in your Web Services Leverage the power of Python for faster Web Service development Book Description Django is a Python web framework that makes the web development process very easy. It reduces the amount of trivial code, which simplifies the creation of web applications and results in faster development. It is very powerful and a great choice for creating RESTful web services. If you are a Python developer and want to efficiently create RESTful web services with Django for your apps, then this is the right book for you. The book starts off by showing you how to install and configure the environment, required software, and tools to create RESTful web services with Django and the Django REST framework. We then move on to working with advanced serialization and migrations to interact with SQLite and non-SQL data sources. We will use the features included in the Django REST framework to improve our simple web service. Further, we will create API views to process diverse HTTP requests on objects, go through relationships and hyperlinked API management, and then discover the necessary steps to include security and permissions related to data models and APIs. We will also apply throttling rules and run tests to check that versioning works as expected. Next we will run automated tests to improve code coverage. By the end of the book,

you will be able to build RESTful web services with Django. What you will learn The best way to build a RESTful Web Service or API with Django and the Django REST Framework Develop complex RESTful APIs from scratch with Django and the Django REST Framework Work with either SQL or NoSQL data sources Design RESTful Web Services based on application requirements Use third-party packages and extensions to perform common tasks Create automated tests for RESTful web services Debug, test, and profile RESTful web services with Django and the Django REST Framework Who this book is for This book is for Python developers who want to create RESTful web services with Django; you need to have a basic working knowledge of Django but no previous experience with RESTful web services is required. Become a professional .NET developer by learning expert techniques for building enterprise-grade applications Key FeaturesExplore the advanced features of C# and .NET 5 to enhance your code and productivityFollow clear and easy instructions for building an end-to-end enterprise applicationLearn how to build scalable web applications and host them on the cloudBook Description .NET Core is one of the most popular programming platforms in the world for an increasingly large community of developers thanks to its excellent cross-platform support. This book will show you how to confidently use the features of .NET 5 with C# 9 to build robust enterprise applications. Throughout the book, you'll work on creating an enterprise app and adding a key component to the app with each chapter, before finally getting it ready for testing and deployment. You'll learn concepts relating to advanced data structures, the Entity Framework Core, parallel programming, and dependency injection. As you progress, you'll cover various authentication and authorization schemes provided by .NET Core to make your apps and APIs secure. Next, you'll build web apps using ASP.NET Core 5 and deploy them on the cloud while working with various cloud components using Azure. The book then shows you how to use the latest Microsoft Visual Studio 2019 and C# 9 to simplify developer tasks, and also explores tips and tricks in Visual Studio 2019 to improve your productivity. Later, you'll discover various testing techniques such as unit testing and performance testing as well as different methods to deploy enterprise apps. By the end of this book, you'll be able to create enterprise apps using the powerful features of .NET 5 and deploy them on the cloud. What you will learnDesign enterprise apps by making the most of the latest features of .NET 5Discover different layers of an app, such as the data layer, API layer, and web layerExplore end-to-end architecture, implement an enterprise web app using .NET and C# 9, and deploy the app on AzureFocus on the core concepts of web application development such as dependency injection, caching, logging, configuration, and authentication, and implement them in .NET 5Integrate the new .NET 5 health and performance check APIs with your appUnderstand how .NET 5 works and contribute to the .NET 5 platformWho this book is for If you are a developer, architect, or senior programmer who wants to leverage the features of .NET 5 and the C# language, as well as grasp essential techniques to build your skills, then this C# .NET 5 book is for you. Beginner to intermediate-level knowledge of

the .NET framework and C# programming is required to understand the concepts covered in this book more effectively. Over 70 practical recipes to help you create scalable websites using the Django 1.8 framework

About This Book This is the latest book on the market that will help you take advantage of the new features added to Django 1.8 This book consists of recipes of varying complexities to help you create multilingual, responsive, and scalable websites with Django This updated edition teaches you major Django functions and will help you improve your skills by developing models, forms, views, and templates

Who This Book Is For This book is for intermediate-level and professional Django users who need to build projects that are multilingual, functional on devices of different screen sizes, and that scale over a period of time. If you have created websites with Django but you want to sharpen your knowledge and learn some good approaches to different aspects of web development, you should definitely read this book.

What You Will Learn Get started with the basic configuration necessary to start any Django project Build a database structure out of reusable model mixins Manage forms and views and get to know some useful patterns that are used to create them Create handy template filters and tags that you can reuse in every project Integrate your own functionality into the Django CMS Manage hierarchical structures with MPTT Import data from local sources and external web services as well as exporting your data to third parties Implement a multilingual search with Haystack Test and deploy your project efficiently

In Detail Django is a web framework that was designed to strike a balance between rapid web development and high performance. It has the capacity to handle applications with high levels of user traffic and interaction, and can integrate with massive databases on the backend, constantly collecting and processing data in real time. Through this book, you'll discover that collecting data from different sources and providing it to others in different formats isn't as difficult as you thought. It follows a task-based approach to guide you through all the web development processes using the Django framework. We'll start by setting up the virtual environment for a Django project and configuring it. Then you'll learn to write reusable pieces of code for your models and find out how to manage database schema changes using South migrations. After that, we'll take you through working with forms and views to enter and list data. With practical examples on using templates and JavaScript together, you will discover how to create the best user experience. In the final chapters, you'll be introduced to some programming and debugging tricks and finally, you will be shown how to test and deploy the project to a remote dedicated server. By the end of this book, you will have a good understanding of the new features added to Django 1.8 and be an expert at web development processes.

Style and approach Every chapter consists of practical examples and a mix of basic and advanced recipes that will guide you through the entire web development process, starting from project configuration and taking you right through to deployment. Este libro se dirige principalmente a los desarrolladores y jefes de proyecto pero también a los profesionales llamados a modificar código fuente (Diseñadores gráficos, Webdesigner, etc.). El libro

comienza por presentar la historia de las soluciones de gestión de versiones y su interés. Luego permite al lector instalar y configurar Git y utilizarlo a través de cinco capítulos de forma progresiva (funcionamiento de las ramas, compartición de un repositorio, herramientas internas ...) Un capítulo permite aprender a utilizar git-flow, un método para gestionar eficazmente las diferentes versiones de un proyecto empresarial. Los dos últimos capítulos presentan la gestión de versiones de forma práctica utilizando dos escenarios implementados por desarrolladores. El primer escenario toma las bases de uso de Git y muestra el uso de sus principales comandos en un entorno casi real. El segundo escenario presenta un equipo de desarrolladores : con la instalación de GitLab, hasta un uso del método git-flow por el equipo, este capítulo detalla las principales etapas por las que el equipo debe pasar para versionar un proyecto existente. En el anexo, una guía rápida permite visualizar rápidamente los principales comandos y sus opciones.

Build a website with Django 3 is the fourth edition of my popular Django beginners book, fully updated for Django 3 Not only has the book been updated to cover the latest version of Django, but I've added install instructions for macOS users. Your complete introduction to Django 3 Build a website with Django 3 covers all the core concepts of Django to get you up and running fast:

- Why Django is the premier Python framework for developing web applications
- The big picture - how Django is structured
- Django Models
- Django Views
- Django Templates
- The Django admin
- Generic views
- Simple forms
- Complex forms and model forms
- Managing Users
- Restricted content
- File uploads
- Sending email
- Deploying a Django application

Build a real website This book is not about boring theory. You'll be building a fully functioning website as you learn Django. I even show you how to deploy your website to the Internet for free. The technical resources, budgets, curriculum, and profile of the student body are all factors that play in implementing course design. Learning management systems administrate these aspects for the development of new methods for course delivery and corresponding instructional design. Learning Management Systems and Instructional Design: Best Practices in Online Education provides an overview on the connection between learning management systems and the variety of instructional design models and methods of course delivery. This book is a useful source for administrators, faculty, instructional designers, course developers, and businesses interested in the technological solutions and methods of online education. This book features a step-by-step approach that shows you how to program, create, and improve the quality of web applications using Django, with the help of Python. This is an ideal book for developers who want to improve the quality and maintenance of their web application, and who already have knowledge of Python and web development. Applied Network Security Monitoring is the essential guide to becoming an NSM analyst from the ground up. This book takes a fundamental approach to NSM, complete with dozens of real-world examples that teach you the key concepts of NSM. Network security monitoring is based on the principle that prevention eventually fails. In the current threat landscape, no matter how much you try, motivated attackers

will eventually find their way into your network. At that point, it is your ability to detect and respond to that intrusion that can be the difference between a small incident and a major disaster. The book follows the three stages of the NSM cycle: collection, detection, and analysis. As you progress through each section, you will have access to insights from seasoned NSM professionals while being introduced to relevant, practical scenarios complete with sample data. If you've never performed NSM analysis, Applied Network Security Monitoring will give you an adequate grasp on the core concepts needed to become an effective analyst. If you are already a practicing analyst, this book will allow you to grow your analytic technique to make you more effective at your job. Discusses the proper methods for data collection, and teaches you how to become a skilled NSM analyst Provides thorough hands-on coverage of Snort, Suricata, Bro-IDS, SiLK, and Argus Loaded with practical examples containing real PCAP files you can replay, and uses Security Onion for all its lab examples Companion website includes up-to-date blogs from the authors about the latest developments in NSM This brief book is an easy-to-digest introduction to the key concepts of web development. Understand the concepts of the web and how they apply to static and dynamic websites. See how HTML and CSS are used to create the bones of the web. Concisely presented through four key concept chapters, Introducing Web Development will enable you to get a clear understanding of how web development works. What You Will Learn How the web works and interacts with websites What static and dynamic websites are and how they work How the static parts of a website are coded using HTML and CSS Who This Book Is For Anyone who wants to understand the basics of web development. South African born, debut author brings a threat-and-danger, hidden-world fantasy with touches of Suzanne Collins which fans of VE Schwab or Sarah J Maas will love. Twenty-two-year-old Cassia's sister is dying, and she doesn't know why. Cassia wakes up in another realm to find her missing best friend, Lucas, who knows how to save her sister. Lucas is part of a community of Reborns, people who were born on earth and after death, were reborn in this realm with magical abilities. The original beings of the realm, the Firsts, rule over them. To keep the Reborn numbers manageable, the king of the Firsts releases a curse to cull them. Cassia needs to break the curse before her time runs out and she is trapped there forever. FLAME TREE PRESS is the imprint of long-standing independent Flame Tree Publishing, dedicated to full-length original fiction in the horror and suspense, science fiction & fantasy, and crime / mystery / thriller categories. The list brings together fantastic new authors and the more established; the award winners, and exciting, original voices. Learn more about Flame Tree Press at www.flametreepress.com and connect on social media @FlameTreePress This book reviews a range of quantum phenomena in novel nanoscale transistors called FinFETs, including quantized conductance of 1D transport, single electron effect, tunneling transport, etc. The goal is to create a fundamental bridge between quantum FinFET and nanotechnology to stimulate readers' interest in developing new types of semiconductor technology. Although the rapid

development of micro-nano fabrication is driving the MOSFET downscaling trend that is evolving from planar channel to nonplanar FinFET, silicon-based CMOS technology is expected to face fundamental limits in the near future. Therefore, new types of nanoscale devices are being investigated aggressively to take advantage of the quantum effect in carrier transport. The quantum confinement effect of FinFET at room temperatures was reported following the breakthrough to sub-10nm scale technology in silicon nanowires. With chapters written by leading scientists throughout the world, *Toward Quantum FinFET* provides a comprehensive introduction to the field as well as a platform for knowledge sharing and dissemination of the latest advances. As a roadmap to guide further research in an area of increasing importance for the future development of materials science, nanofabrication technology, and nano-electronic devices, the book can be recommended for Physics, Electrical Engineering, and Materials Science departments, and as a reference on micro-nano electronic science and device design. Offers comprehensive coverage of novel nanoscale transistors with quantum confinement effect Provides the keys to understanding the emerging area of the quantum FinFET Written by leading experts in each research area Describes a key enabling technology for research and development of nanofabrication and nanoelectronic devices From an idea to a prototype – a complete guide for web development with the Django framework About This Book Explore the best practices to develop applications of a superior quality with Django framework Unravel the common problems of web development in Django This course teaches you major Django functions and will help you improve your skills by developing models, forms, views, and templates Experience the challenges of working on an end-to-end social network project Who This Book Is For Web developers who want to use modern Python-based web frameworks like Django to build powerful web applications. The course is mostly self-contained and introduces web development with Python to a reader who is familiar with web development concepts and can help him become an expert in this trade. It's intended for all levels of web developers, both students and practitioners from novice to experts. What You Will Learn Use Django models to store information in the database and generate queries to access a database across models Quickly develop web pages to create, read, update, and delete data from the model using class-based views Generate very maintainable forms with Django Import data from local sources and external web services as well as exporting your data to third parties Deep dive into various aspects of Django from models and views to testing and deployment Familiarize yourself with the various nuances of web development such as browser attacks and databases In Detail Data science is hot right now, and the need for multitalented developers is greater than ever before. A basic grounding in building apps with a framework as minimalistic, powerful, and easy-to-learn as Django will be a useful skill to launch your career as an entrepreneur or web developer. Django is a web framework that was designed to strike a balance between rapid web development and high performance. This course will take you on a journey to become an efficient web developer

thoroughly understanding the key concepts of Django framework. This learning path is divided into three modules. The course begins with basic concepts of the Django framework. The first module, Django Essentials, is like a practical guide, filled with many real-world examples to build highly effective Django web application. After getting familiar with core concepts of Django, it's time to practice your learning from the first module with the help of over 90 recipes available in this module. In the second module, Web Development with Django Cookbook, you'll learn varying complexities to help you create multilingual, responsive, and scalable websites with Django. By the end of this module, you will have a good understanding of the new features added to Django 1.8 and be an expert at web development processes. The next step is to discover the latest best practices and idioms in this rapidly evolving Django framework. This is what you'll be learning in our third module, Django Design Patterns and Best Practices. This module will teach you common design patterns to develop better Django code. By the end of the module, you will be able to leverage the Django framework to develop a fully functional web application with minimal effort.

Style and approach This course includes all the resources that will help you jump into the web development field with Django and learn how to make scalable and robust web applications. The aim is to create a smooth learning path that will teach you how to get started with the powerful Django framework and perform various web development techniques in depth. Through this comprehensive course, you'll learn web development with Django from scratch to finish!

The gripping, untold story of The International Criminal Tribunal for the former Yugoslavia and how the perpetrators of Balkan war crimes were captured by the most successful manhunt in history

Written with a thrilling narrative pull, *The Butcher's Trail* chronicles the pursuit and capture of the Balkan war criminals indicted by the International Criminal Tribunal in The Hague. Berger recounts how Radovan Karadžić and Ratko Mladić—both now on trial in The Hague—were finally tracked down, and describes the intrigue behind the arrest of Slobodan Milosevic, the Yugoslav president who became the first head of state to stand before an international tribunal for crimes perpetrated in a time of war. Based on interviews with former special forces soldiers, intelligence officials, and investigators from a dozen countries—most speaking about their involvement for the first time—this book reconstructs a fourteen-year manhunt carried out almost entirely in secret. Indicting the worst war criminals that Europe had known since the Nazi era, the ICTY ultimately accounted for all 161 suspects on its wanted list, a feat never before achieved in political and military history. Delivers absolutely everything you will ever need to know to become a master Django programmer

About This Book Gain a complete understanding of Django—the most popular, Python-based web framework in the world

Gain the skills to successfully designing, developing, and deploying your app This book is packaged with fully described code so you can learn the fundamentals and the advanced topics to get a complete understanding of all of Django's core functions

Who This Book Is For This book assumes you have a basic understanding of the Internet and programming.

Experience with Python or Django would be an advantage, but is not necessary. It is ideal for beginner to intermediate programmers looking for a fast, secure, scalable, and maintainable alternative web development platform to those based on PHP, Java, and dotNET. What You Will Learn Use Django to access user-submitted form data, validate it, and work with it Get to know advanced URLconf tips and tricks Extend Django's template system with custom code Define models and use the database API to create, retrieve, update, and delete records Fully extend and customize the default implementation as per your project's needs Test and deploy your Django application Get to know more about Django's session, cache Framework, and middleware In Detail Mastering Django: Core is a completely revised and updated version of the original Django Book, written by Adrian Holovaty and Jacob Kaplan-Moss - the creators of Django. The main goal of this book is to make you a Django expert. By reading this book, you'll learn the skills needed to develop powerful websites quickly, with code that is clean and easy to maintain. This book is also a programmer's manual that provides complete coverage of the current Long Term Support (LTS) version of Django. For developers creating applications for commercial and business critical deployments, Mastering Django: Core provides a complete, up-to-date resource for Django 1.8LTS with a stable code-base, security fixes and support out to 2018. Style and approach This comprehensive step-by-step practical guide offers a thorough understanding of all the web development concepts related to Django. In addition to explaining the features of Django, this book provides real-world experience on how these features fit together to build extraordinary apps. Amplification of Chirality presents critical reviews of the present position and future trends in modern chemical research. The book contains short and concise reports on chemistry. Each is written by the world renowned experts. Still valid and useful after 5 or 10 years, more information as well as the electronic version of the whole content available at: springerlink.com. Summary Manning's bestselling Java 8 book has been revised for Java 9! In Modern Java in Action, you'll build on your existing Java language skills with the newest features and techniques. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Modern applications take advantage of innovative designs, including microservices, reactive architectures, and streaming data. Modern Java features like lambdas, streams, and the long-awaited Java Module System make implementing these designs significantly easier. It's time to upgrade your skills and meet these challenges head on! About the Book Modern Java in Action connects new features of the Java language with their practical applications. Using crystal-clear examples and careful attention to detail, this book respects your time. It will help you expand your existing knowledge of core Java as you master modern additions like the Streams API and the Java Module System, explore new approaches to concurrency, and learn how functional concepts can help you write code that's easier to read and maintain. What's inside Thoroughly revised edition of Manning's bestselling Java 8 in Action New features in Java 8, Java 9, and beyond Streaming data and

reactive programming The Java Module System About the Reader Written for developers familiar with core Java features. About the Author Raoul-Gabriel Urma is CEO of Cambridge Spark. Mario Fusco is a senior software engineer at Red Hat. Alan Mycroft is a University of Cambridge computer science professor; he cofounded the Raspberry Pi Foundation. Table of Contents PART 1 - FUNDAMENTALS Java 8, 9, 10, and 11: what's happening? Passing code with behavior parameterization Lambda expressions PART 2 - FUNCTIONAL-STYLE DATA PROCESSING WITH STREAMS Introducing streams Working with streams Collecting data with streams Parallel data processing and performance PART 3 - EFFECTIVE PROGRAMMING WITH STREAMS AND LAMBDA Collection API enhancements Refactoring, testing, and debugging Domain-specific languages using lambdas PART 4 - EVERYDAY JAVA Using Optional as a better alternative to null New Date and Time API Default methods The Java Module System PART 5 - ENHANCED JAVA CONCURRENCY Concepts behind CompletableFuture and reactive programming CompletableFuture: composable asynchronous programming Reactive programming PART 6 - FUNCTIONAL PROGRAMMING AND FUTURE JAVA EVOLUTION Thinking functionally Functional programming techniques Blending OOP and FP: Comparing Java and Scala Conclusions and where next for Java Build a world-class website in less than a week with Django CMS. Beginning Django CMS shows you how to simply and easily write a dynamic website with a full content management system in the backend. It is written for Internet developers who are sick and tired of dealing with complicated, bloated website frameworks that are a pain to build and a nightmare to maintain. Django CMS is an Open Source website building framework that is experiencing exponential growth because it is built on the simple, secure and scalable architecture of Django. This book takes you from knowing nothing about Django CMS, to building a functional website and content management system that you can deploy for your own website or for your customers. What You'll Learn: Install and configure Django CMS Build a dynamic website quickly and easily Author and submit content for publication Administer Django CMS Install and use custom and third-party plugins Deploy a website using Django CMS Who This Book is For: Beginning Django CMS is for programmers, in particular Python and Django programmers, wishing to build a simple, custom content management system (CMS). They do not have to be directly interested in the Django CMS application, Beginning Django CMS will be equally useful to a programmer looking to build a functioning CMS rapidly. Provides an overview of the developments and applications of Organic Light Emitting Transistors (OLETs) science and technology This book discusses the scientific fundamentals and key technological features of Organic Light Emitting Transistors (OLETs) by putting them in the context of organic electronics and photonics. The characteristics of OLETs are benchmarked to those of OLEDs for applications in Flat Panel Displays and sensing technology. The authors provide a comparative analysis between OLED and OLET devices in order to highlight the fundamental differences in terms of device architecture and working principles, and to point out the

enabling nature of OLETs for truly flexible displays. The book then explores the principles of OLET devices, their basic optoelectronic characteristics, the properties of currently available materials, processing and fabrication techniques, and the different approaches adopted to structure the active channel and to control organic and hybrid interfaces. Examines the photonic properties of OLETs, focusing on the external quantum efficiency, the brightness, the light outcoupling, and emission directionality Analyzes the charge transport and photophysical properties of OLET, emphasizing the excitonic properties and spatial emitting characteristics Reviews the key building blocks of the OLET devices and their role in determining the device's performance Discusses the challenges in OLET design, namely color gamut, power efficiency, and reliability Presents key applications of OLET devices and their potential impact on display technology and sensing Organic Light-Emitting Transistors: Towards the Next Generation Display Technology serves as a reference for researchers, technology developers and end-users to have a broad view of the distinguishing features of the OLET technology and to profile the impact on the display and sensing markets. A complete step-by-step course which shows you how to play and deepen your understanding of chess. Provides information on pursuing a career in web development, including the major categories of web development jobs, the necessary skills, how to build a resume and develop a web portfolio, and how to use online job boards. "Two scoops of Django introduces you to various tips, tricks, patterns, code snippets, and techniques . . ."--Page 4 of cover. Grade Level 6.2, Book# 385, Points 7. A beginner's guide that will help you get familiar with Django for web development. KEY FEATURES ? Learn to build websites with a strong blend of concepts and practical learning. ? Set up your public website with advanced functionalities from scratch. ? Explore Django architecture, components, navigation panel and templates. DESCRIPTION 'Building Websites with Django' book teaches readers to develop their high-quality, feature-rich website by learning Django and its various tools. You will learn the best techniques to develop a dynamic website, right from scratch. This book focuses not only on just creating a particular application but rather develops a strong understanding of theoretical concepts with rich examples. You will learn to troubleshoot errors, develop navigation panels and add advanced functionalities like deploying on heroku server. You will read about models, templates, different types of views. You will learn to create apps and learn how to integrate different apps. By the end of this book, You will create a project from scratch and will deploy it as a public website by yourself. WHAT YOU WILL LEARN ? Create a Django project from scratch and deploy them as a public website. ? Work with Django components such as Model, View, and Template. ? Interact with the database using Query Sets. ? Deploy your Django application for free on Heroku. ? Learn how to use Django's built-in authentication and authorization module effectively. WHO THIS BOOK IS FOR This book is for early entrepreneurs, beginners, software professionals, bloggers and hobbyists who want to create their online presence on their own without having any prior technical knowledge about

web tools. TABLE OF CONTENTS 1. Introduction to Django 2. An Overview of the MTV Architecture 3. Understanding Django Settings 4. Django Admin Utility 5. Interacting with the Database using Query Sets 6. Enhancing your Project 7. Understanding Models 8. Django Views 9. Django Templates 10. URL and Regex 11. Forms in Django 12. Setting up a Project 13. The Account app 14. The Genre app 15. The Post app 16. Deploying the Website Build your first website with Python and Django will teach you step by step, and in easy to understand language, how to design, build and deploy a complete website. Python has a strong reputation for being the easiest programming language to learn and paired with Django, they make a perfect platform for programmers to learn web application development. Beginners and programmers new to Django alike will get something out of this book. Each chapter is written in the same easy to understand style and each line of code is explained so you can gain a full understanding of what is going on in the application. The book concludes with full instructions on how to deploy the website you have created to the Internet. A comprehensive guide to Python programming for web development using the most popular Python web framework - Django Key Features Learn the fundamentals of programming with Python and building web apps Build web applications from scratch with Django Create real-world RESTful web services with the latest Django framework Book Description If you want to develop complete Python web apps with Django, this Learning Path is for you. It will walk you through Python programming techniques and guide you in implementing them when creating 4 professional Django projects, teaching you how to solve common problems and develop RESTful web services with Django and Python. You will learn how to build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Learn Web Development with Python will get you started with Python programming techniques, show you how to enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. Last but not least, you'll learn the best practices for creating real-world applications. By the end of this Learning Path, you will have a full understanding of how Django works and how to use it to build web applications from scratch. This Learning Path includes content from the following Packt products: Learn Python Programming by Fabrizio Romano Django RESTful Web Services by Gastón C. Hillar Django Design Patterns and Best Practices by Arun Ravindran What you will learn Explore the fundamentals of Python programming with interactive projects Grasp essential coding concepts along with the basics of data structures and control flow Develop RESTful APIs from scratch with Django and the Django REST Framework Create automated tests for RESTful web services Debug, test, and profile RESTful web services with Django and the Django REST Framework Use Django with other technologies such as Redis and Celery Who this book is for If you have little experience in coding or Python and want to learn how to build full-fledged web apps, this Learning Path is for you. No prior experience with RESTful web services, Python, or Django is required, but basic Python programming experience is needed to understand the concepts covered.

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