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Learning Website Development with Django Django Girls Tutorial Django by Example Learning Python Learning Django Web Development Django 4 for the Impatient The Definitive Guide to Django Pro Django Machine Learning for the Web Hello Web App Dive Into Python Two Scoops of Django Teach Yourself VISUALLY Python Practical Django Projects Django 2 by Example Django: Web Development with Python

Learn Python 3 the Hard Way Automate the Boring Stuff with Python, 2nd Edition Beginning Django CMS Building Websites with Django Test-Driven Development with Python The Hitchhiker's Guide to Python Django for Beginners Head First Python Mastering Django Django 3 By Example - Third Edition

While I hope this book will eventually serve as a good reference for you, I didn't write

it with that intention in mind. It is a "course" on Django. The idea is for you to start at the beginning and work your way through to the end. This is a Django book for Python developers. The better you know Python, the easier it will be to learn Django. Conversely, one of the great things about learning Django is that it will help you improve your Python skills. The Django framework is written beautifully and you have full access to the source code. We encourage you to dig into that code to see why things work the way they do and to learn how you can customize your site to work exactly how you want it to work. Django is magical. That

magic makes it easy to to get started quickly. But it also can make it easy to get a little (or a lot) confused about how things happen. And when something goes wrong, it can be hard to figure out why. I don't promise that learning Django will always be easy. Some parts are pretty easy, and some parts are pretty hard. Be patient with yourself. Pretend you're the teacher as well as the student. When the student fails, the good teacher doesn't insult or chastise. The good teacher encourages. The good teacher knows that failure is a part of learning, and that overcoming failure is exciting and leads to more learning. So, be a good teacher and treat yourself

well. But be a good student too. When reading this book, you should be sitting at your computer. When you first begin, plan to spend at least two uninterrupted hours. You should do your best to get through the Getting Started with Django lesson in the first sitting. Go through the book slowly and methodically. Read every demo carefully. Work through every exercise. You cannot learn to code through reading alone. You must practice. 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 Get started in programming with Python! Teach Yourself VISUALLY Python is your ultimate guide to getting you started in programming! Python has become one of the most popular programming languages in the world. If you are looking to take on programming, start here, right now, with this hands-on guide! This guide will get you started from the very beginning by installing the right version of Python, downloading and installing Thomy and getting it configured to work properly.

Follow along through each step by writing your first code in Python This book will also teach you how to; Get started with variables Work with files and folders How to make decisions in code Work with functions and text Handle errors and; Work with lists and classes. By the time you have gone through the exercises in this book, you will have the skills you need to manipulate text, work with images, and program your very own code projects. Create your own line of successful web applications with Django About This Book • Learn Django by building four fully-functional, real-world web applications from scratch • Develop powerful web

applications quickly using the best coding practices • Integrate other technologies into your application with clear, step-by-step explanations and comprehensive example code Who This Book Is For If you are a web developer who is completely new or familiar with Django and want to make the most out of it, this book is for you. Some basic knowledge of Python, HTML, and JavaScript is beneficial, but is not required. What You Will Learn • Build a search engine with Django and Solr • Add asynchronous tasks to applications with Celery • Create pluggable Django applications by building an activity stream system •

Enhance the user experience using AJAX views • Extend the Django Admin site with custom actions • Use third-party Django applications to add social authentication to projects • Manage payments and orders by integrating a third-party payment gateway • Engage users by building a gamification system

In Detail Django is a powerful Python web framework designed to solve all types of web development problems and questions, providing Python developers with an easy solution to web application development. With a wealth of third-party modules available, you'll be able to create a highly customizable web application

with this powerful framework. This book will walk you through the creation of four professional Django projects and show you how to solve common problems and implement best practices. The book begins by first showing you how to create a simple blog and integrate it with third-party applications, before gradually moving on to extending this blog by adding features such as custom template tags and filters. You will build a complete social website, share its contents, track user actions in a timeline, and use Redis with Django to store item views. You will also build an online shop, manage its payments and orders, and

add internationalization and localization to the project. Before you are introduced to content creation and building an evaluation system, you will build an e-learning application. Finally, you will build a gamification system where you will learn to build a badges application and get familiar with Django management commands. After reading this book, you will have a good understanding of how Django works and how to integrate it with other technologies. You will be able to build advanced Django applications for production use.

Style and approach This is an easy-to-follow guide to building four different production-ready

Django projects. Each project focuses on a particular area of the framework and each topic within the projects is explained with practical examples and includes best practice recommendations. This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. In just 24 lessons of one hour or less, you will be able to build full-featured production websites using Django, the powerful web development framework based on Python. Designed for experienced website developers who have at least some familiarity with the Python programming language,

this book uses a straightforward, step-by-step approach. Each lesson builds on the previous ones, enabling you to learn the essentials of implementing the Django framework. Get a comprehensive, in-depth introduction to the core Python language with this hands-on book. Based on author Mark Lutz's popular training course, this updated fifth edition will help you quickly write efficient, high-quality code with Python. It's an ideal way to begin, whether you're new to programming or a professional developer versed in other languages. Complete with quizzes, exercises, and helpful illustrations, this easy-to-follow, self-paced tutorial

gets you started with both Python 2.7 and 3.3—the latest releases in the 3.X and 2.X lines—plus all other releases in common use today. You'll also learn some advanced language features that recently have become more common in Python code. Explore Python's major built-in object types such as numbers, lists, and dictionaries Create and process objects with Python statements, and learn Python's general syntax model Use functions to avoid code redundancy and package code for reuse Organize statements, functions, and other tools into larger components with modules Dive into classes: Python's object-oriented

programming tool for structuring code Write large programs with Python's exception-handling model and development tools Learn advanced Python tools, including decorators, descriptors, metaclasses, and Unicode processing Welcome to the Django Girls Tutorial! We are happy to see you here: ) In this tutorial, we will take you on a journey under the hood of web technologies, offering you a glimpse of all the bits and pieces that need to come together to make the web work as we know it. As with all unknown things, this is going to be an adventure - but no worries, since you already worked up the courage to be

here, you'll be just fine: ) This book is a BEGINNER's guide to building a web application using HTML, CSS, Javascript, Python and Django Web framework. I have explained all the topics in a simple, concise and easy language with thorough examples, codes and have tried my best to make the learning process fun, informative and interesting at the same time. If you want to gain an in-depth understanding, it is quite a simple book for the job. In addition, it is a good way to get started with learning Django Web Framework Explore the web and make smarter predictions using Python About This Book Targets two big and

prominent markets where sophisticated web apps are of need and importance. Practical examples of building machine learning web application, which are easy to follow and replicate. A comprehensive tutorial on Python libraries and frameworks to get you up and started. Who This Book Is For The book is aimed at upcoming and new data scientists who have little experience with machine learning or users who are interested in and are working on developing smart (predictive) web applications. Knowledge of Django would be beneficial. The reader is expected to have a background in Python programming and good knowledge of statistics.

What You Will Learn Get familiar with the fundamental concepts and some of the jargons used in the machine learning community Use tools and techniques to mine data from websites Grasp the core concepts of Django framework Get to know the most useful clustering and classification techniques and implement them in Python Acquire all the necessary knowledge to build a web application with Django Successfully build and deploy a movie recommendation system application using the Django framework in Python In Detail Python is a general purpose and also a comparatively easy to learn programming language. Hence it is the

language of choice for data scientists to prototype, visualize, and run data analyses on small and medium-sized data sets. This is a unique book that helps bridge the gap between machine learning and web development. It focuses on the difficulties of implementing predictive analytics in web applications. We focus on the Python language, frameworks, tools, and libraries, showing you how to build a machine learning system. You will explore the core machine learning concepts and then develop and deploy the data into a web application using the Django framework. You will also learn to carry out web, document, and server mining

tasks, and build recommendation engines. Later, you will explore Python's impressive Django framework and will find out how to build a modern simple web app with machine learning features. Style and approach Instead of being overwhelmed with multiple concepts at once, this book provides a step-by-step approach that will guide you through one topic at a time. An intuitive step-by-step guide that will focus on one key topic at a time. Building upon the acquired knowledge in each chapter, we will connect the fundamental theory and practical tips by illustrative visualizations and hands-on code examples. A quick-start



guide to exploring and using Python and Django to develop web applications in minutes

Key Features • Develop web applications with Python and Django quickly • Understand Django features with short explanations and learn how to use them right away • Create a movie reviews app with a responsive user interface and deploy it to the cloud

Book Description Learning Django can be a tricky and time-consuming activity. There are hundreds of tutorials, loads of documentation, and many explanations that are hard to digest. However, this book enables you to use and learn Django in just a couple of days. In this book, you'll go on a fun,

hands-on, and pragmatic journey to learn Django full stack development. You'll start building your first Django app within minutes. You'll be provided with short explanations and a practical approach that cover some of the most important Django features, such as Django Apps' structure, URLs, views, templates, models, CSS inclusion, image storage, authentication and authorization, Django admin panel, and many more. You'll also use Django to develop a movies review app and deploy it to the internet. By the end of this book, you'll be able to build and deploy your own Django web applications. What you will

learn • Understand and implement Django Apps' basic structure, including URLs, views, templates, and models • Add bootstrap to improve the aesthetics of the site • Create your own custom pages and have different URLs to route to them • Navigate between pages by adding a header bar to all pages • Work with databases and models • Explore the powerful built-in admin interface with Django • Use Django's powerful, built-in authentication system • Deploy your Django project on the internet for the world to use

Who this book is for This book is for Python developers at any level of experience with Python programming who want to

build full-stack Python web applications using Django. The book is for absolute Django beginners. By taking you through the development of a real web application from beginning to end, the second edition of this hands-on guide demonstrates the practical advantages of test-driven development (TDD) with Python. You'll learn how to write and run tests before building each part of your app, and then develop the minimum amount of code required to pass those tests. The result? Clean code that works. In the process, you'll learn the basics of Django, Selenium, Git, jQuery, and Mock, along with current web development

techniques. If you're ready to take your Python skills to the next level, this book—updated for Python 3.6—clearly demonstrates how TDD encourages simple designs and inspires confidence. Dive into the TDD workflow, including the unit test/code cycle and refactoring Use unit tests for classes and functions, and functional tests for user interactions within the browser Learn when and how to use mock objects, and the pros and cons of isolated vs. integrated tests Test and automate your deployments with a staging server Apply tests to the third-party plugins you integrate into your site Run tests automatically by using a

Continuous Integration environment Use TDD to build a REST API with a front-end Ajax interface 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. You Will Learn Python 3! Zed Shaw has perfected the

world's best system for learning Python 3. Follow it and you will succeed—just like the millions of beginners Zed has taught to date! You bring the discipline, commitment, and persistence; the author supplies everything else. In *Learn Python 3 the Hard Way*, you'll learn Python by working through 52 brilliantly crafted exercises. Read them. Type their code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you'll learn how a computer works; what good programs look like; and how to read, write, and think about code. Zed then teaches you even more in 5+ hours of video where he shows you how to

break, fix, and debug your code—live, as he's doing the exercises. Install a complete Python environment Organize and write code Fix and break code Basic mathematics Variables Strings and text Interact with users Work with files Looping and logic Data structures using lists and dictionaries Program design Object-oriented programming Inheritance and composition Modules, classes, and objects Python packaging Automated testing Basic game development Basic web development It'll be hard at first. But soon, you'll just get it—and that will feel great! This course will reward you for every minute you put into it.

Soon, you'll know one of the world's most powerful, popular programming languages. You'll be a Python programmer. This Book Is Perfect For Total beginners with zero programming experience Junior developers who know one or two languages Returning professionals who haven't written code in years Seasoned professionals looking for a fast, simple, crash course in Python 3 Being a beginner's guide this book has a very simple and clear approach. It is a practical guide that will help you learn the features of Django and help you build a dynamic website using those features. This book is for web developers who want to see

how to build a complete site with Web 2.0 features, using the power of a proven and popular development system, but do not necessarily want to learn how a complete framework functions in order to do this. Basic knowledge of Python development is required for this book, but no knowledge of Django is expected. In just 24 lessons of one hour or less, you will be able to build full-featured production websites using Django, the powerful web development framework based on Python. Designed for experienced website developers who have at least some familiarity with the Python programming language,

this book uses a straightforward, step-by-step approach. Each lesson builds on the previous ones, enabling you to learn the essentials of implementing the Django framework on a website from the ground up. Step-by-step instructions carefully walk you through the most common Django tasks. Q&As, quizzes, and exercises at the end of each lesson help you test your knowledge. Notes and tips point out shortcuts and solutions. Learn how to... Install and configure the Django web development framework Cleanly separate data, logic, and view layers Implement site interfaces with build templates and views

Utilize templates and views to store, access, and retrieve data Use the Django forms library Define custom tags and filters to minimize coding Secure sites with registration, authorization, logins, and permissions Manage sessions and cookies Implement middleware for request and response handling Create sitemaps to inform search engines of your content Internationalize your site Optimize performance with caching Deploy Django in multiple configurations Maintain sites with Django's administrator interface Introduction 1 Part I: Creating the Website Framework Hour 1: Understanding Django 7

Hour 2: Creating Your First Website 19 Hour 3: Adding Models and Objects to Your Website 37 Hour 4: Creating the Initial Views 63 Part II: Implementing the Website Interface Hour 5: Using Data from the Database in Views 81 Hour 6: Configuring Web Page Views 103 Hour 7: Implementing Django Templates to Create Custom Views 117 Hour 8: Using Built-in Template Tags to Enhance Views 139 Hour 9: Using Built-in Template Filters to Enhance Views 155 Hour 10: Adding Forms to Views 185 Hour 11: Using Views to Add and Update Data in the Database 209 Hour 12: Utilizing Generic Views 231 Hour 13: Advanced View

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Django Resources 477 Appendix B: Django Form Field Objects 481 Appendix C: Formatting Dates and Times 491 Index 493 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. Learn Django 3 with four end-to-end web projects Key Features Learn Django 3 by building real-world web applications from scratch in Python, using coding best practices Integrate other technologies into your

application with clear, step-by-step explanations and comprehensive example code Implement advanced functionalities like a full-text search engine, a user activity stream, or a recommendation engine Add real-time features with Django Channels and WebSockets Book Description If you want to learn the entire process of developing professional web applications with Python and Django, then this book is for you. In the process of building four professional Django projects, you will learn about Django 3 features, how to solve common web development problems, how to implement best practices, and how to

successfully deploy your applications. In this book, you will build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Step-by-step guidance will teach you how to integrate popular technologies, enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. By the end of this book, you will have mastered Django 3 by building advanced web applications. What you will learn Build real-world web applications Learn Django essentials, including models, views, ORM, templates, URLs, forms, and authentication Implement

advanced features such as custom model fields, custom template tags, cache, middleware, localization, and more Create complex functionalities, such as AJAX interactions, social authentication, a full-text search engine, a payment system, a CMS, a RESTful API, and more Integrate other technologies, including Redis, Celery, RabbitMQ, PostgreSQL, and Channels, into your projects Deploy Django projects in production using NGINX, uWSGI, and Daphne Who this book is for This book is intended for developers with Python knowledge who wish to learn Django in a pragmatic way. Perhaps you are

completely new to Django, or you already know a little but you want to get the most out of it. This book will help you to master the most relevant areas of the framework by building practical projects from scratch. You need to have familiarity with programming concepts in order to read this book. Some previous knowledge of HTML and JavaScript is assumed.

"Two scoops of Django introduces you to various tips, tricks, patterns, code snippets, and techniques . . ."--Page 4 of cover. 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! Learn how to code web apps and get on the path to building your next side project, your lifestyle business, or your startup. Hello Web App is written for non-programmers by a designer, and will walk

you through every step you need before launching your web app live to real customers. No jargon, using simple and friendly language. This book doesn't walk you through a specific tutorial, but instead uses a generic example (a "collection of things") to allow you to create something that interests you. A blog is a collection of posts, a store is a collection of products, a directory is a collection of people. The possibilities are endless! Learn by doing-- creating a project unique to you while teaching yourself how to build a web app. 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. Completely updated for Django 4.0! Django for Professionals takes your web development skills to the next level, teaching you how to build production-ready websites with Python and Django. Once you have learned

the basics of Django there is a massive gap between building simple "toy apps" and what it takes to build a "production-ready" web application suitable for deployment to thousands or even millions of users. In the book you'll learn how to: \*

- Build a Bookstore website from scratch
- Use Docker and PostgreSQL locally to mimic production settings
- Implement advanced user registration with email
- Customize permissions to control user access
- Write comprehensive tests
- Adopt advanced security and performance improvements
- Add search and file/image uploads
- Deploy with confidence

If you want to take

advantage of all that Django has to offer, Django for Professionals is a comprehensive best practices guide to building and deploying modern websites. Ever wished you could learn Python from a book? Head First Python is a complete learning experience for Python that helps you learn the language through a unique method that goes beyond syntax and how-to manuals, helping you understand how to be a great Python programmer. You'll quickly learn the language's fundamentals, then move onto persistence, exception handling, web development, SQLite, data wrangling, and Google App Engine. You'll also learn how to

write mobile apps for Android, all thanks to the power that Python gives you. We think your time is too valuable to waste struggling with new. Mastering Django helps the reader master the powerful Django framework for Python for creating dynamic applications and projects. Django is a high-level, open-source Python web framework created to help web developers achieve tight deadlines while also meeting a variety of needs. The primary feature of Django that makes it so popular among developers is that it promotes rapid development while providing a consistent and realistic design. Django is a complete toolkit with a basic

code architecture and highly adaptable architecture that promotes rapid development -- it can shape and pace your web app concept and see it through to launch in a matter of hours. Django's simplicity, stability, scalability, and flexibility are unmatched. It is currently a vibrant, collaborative open source project with thousands of users and contributors. Django is a versatile framework capable of developing any website. Robust design, rapid software development, fantastic documentation and tutorials, a vast community with readymade solutions, reasonably easy learning curve, and a high degree of clarity and

readability are all hallmarks of this popular web framework. Django has carved out a niche for itself in the industry over the years, and appropriately so. Many popular apps use Django as their secret ingredient. Django has many features and can accommodate any modern web application. If you wish to build a successful career in web development, learning Django is a wise choice. With Mastering Django, learning the Django framework becomes a charm, and will help readers undoubtedly advance their careers. About the Series The Mastering Computer Science covers a wide range of topics, spanning programming languages as well as modern-

day technologies and frameworks. The series has a special focus on beginner-level content, and is presented in an easy to understand manner, comprising: Crystal-clear text, spanning various topics sorted by relevance, Special focus on practical exercises, with numerous code samples and programs, A guided approach to programming, with step by step tutorials for the absolute beginners, Keen emphasis on real-world utility of skills, thereby cutting the redundant and seldom-used concepts and focusing instead of industry-prevalent coding paradigm, A wide range of references and resources, to help both beginner and intermediate-

level developers gain the most out of the books. Mastering Computer Science series of books start from the core concepts, and then quickly move on to industry-standard coding practices, to help learners gain efficient and crucial skills in as little time as possible. The books assume no prior knowledge of coding, so even the absolute newbie coders can benefit from this series. Mastering Computer Science series is edited by Sufyan bin Uzayr, a writer and educator with over a decade of experience in the computing field. Django, the Python-based Web development framework, is one of the hottest topics in Web development today. Its

creator (and co-author of this book) Adrian Holovaty has built a compelling array of Web applications using Django, including <http://chicagocrime.org>. Django creator Adrian Holovaty and lead developer Jacob Kaplan-Moss have created this book as the definitive guide to the technology. Beginning with fundamentals such as installation and configuration, the book tackles sophisticated features of Django, such as outputting non-HTML content such as RSS feeds and PDFs, caching, and user management. Also includes a detailed reference to Django's many configuration options and commands. The second edition

of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the technically uninclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In this fully revised second edition of the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python to

write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of

automation to:

- Search for text in a file or across multiple files
- Create, update, move, and rename files and folders
- Search the Web and download online content
- Update and format data in Excel spreadsheets of any size
- Split, merge, watermark, and encrypt PDFs
- Send email responses and text notifications
- Fill out online forms

Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if

you've never written a line of code, you can make your computer do the grunt work. Learn how in *Automate the Boring Stuff with Python, 2nd Edition*. Using the simple, robust, Python-based Django framework, you can build powerful Web solutions with remarkably few lines of code. In *Python Web Development with Django®*, three experienced Django and Python developers cover all the techniques, tools, and concepts you need to make the most of Django 1.0, including all the major features of the new release. The authors teach Django through in-depth explanations, plus provide extensive sample code

supported with images and line-by-line explanations. You'll discover how Django leverages Python's development speed and flexibility to help you solve a wide spectrum of Web development problems and learn Django best practices covered nowhere else. You'll build your first Django application in just minutes and deepen your real-world skills through start-to-finish application projects including Simple Web log (blog) Online photo gallery Simple content management system Ajax-powered live blogger Online source code sharing/syntax highlighting tool How to run your Django applications on the Google App Engine This

complete guide starts by introducing Python, Django, and Web development concepts, then dives into the Django framework, providing a deep understanding of its major components (models, views, templates), and how they come together to form complete Web applications. After a discussion of four independent working Django applications, coverage turns to advanced topics, such as caching, extending the template system, syndication, admin customization, and testing. Valuable reference appendices cover using the command-line, installing and configuring Django, development tools, exploring

existing Django applications, the Google App Engine, and how to get more involved with the Django community. Introduction 1 Part I: Getting Started Chapter 1: Practical Python for Django 7 Chapter 2: Django for the Impatient: Building a Blog 57 Chapter 3: Starting Out 77 Part II: Django in Depth Chapter 4: Defining and Using Models 89 Chapter 5: URLs, HTTP Mechanisms, and Views 117 Chapter 6: Templates and Form Processing 135 Part III: Django Applications by Example Chapter 7: Photo Gallery 159 Chapter 8: Content Management System 181 Chapter 9: Liveblog 205 Chapter 10: Pastebin 221 Part



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Colophon 375 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. Build

a Django content management system, blog, and social networking site with James Bennett as he introduces version 1.1 of the popular Django framework. You'll work through the development of each project, implementing and running the applications while learning new features along the way. Web frameworks are playing a major role in the creation of today's most compelling web applications, because they automate many of the tedious tasks, allowing developers to instead focus on providing users with creative and powerful features. Python developers have been particularly fortunate in this area, having been able to take

advantage of Django, a very popular open-source web framework whose stated goal is to "make it easier to build better web applications more quickly with less code." Practical Django Projects introduces this popular framework by way of a series of real-world projects. Readers follow along with the development of each project, implementing and running each application while learning new features along the way. This edition is updated for Django 1.1 and includes an all-new chapter covering practical development tools and techniques you'll be able to apply to your own development workflow. The Hitchhiker's

Guide to Python takes the journeyman Pythonista to true expertise. More than any other language, Python was created with the philosophy of simplicity and parsimony. Now 25 years old, Python has become the primary or secondary language (after SQL) for many business users. With popularity comes diversity—and possibly dilution. This guide, collaboratively written by over a hundred members of the Python community, describes best practices currently used by package and application developers. Unlike other books for this audience, The Hitchhiker's Guide is light on reusable code and heavier

on design philosophy, directing the reader to excellent sources that already exist. Completely updated for Django 4.0 & Django REST Framework 3.13! Django for APIs is a project-based guide to building modern web APIs with Django & Django REST Framework. It is suitable for beginners who have never built an API before as well as professional programmers looking for a fast-paced introduction to Django fundamentals and best practices. Over the course of 200+ pages you'll learn how to set up a new project properly, how web APIs work under the hood, and advanced testing and deployment techniques. Three separate projects are built from

scratch with progressively more advanced features including a Library API, Todo API, and Blog API. User authentication, permissions, documentation, viewsets, and routers are all covered thoroughly. Django for APIs is a best-practices guide to building powerful Python-based web APIs with a minimal amount of code. \* Quick start to learning python—very example oriented approach \* Book has its own Web site established by the author: <http://diveintopython.org/> Author is well known in the Open Source community and the book has a unique quick approach to learning an object oriented language. Learn

Django 2.0 with four end-to-end projects Key Features Learn Django by building real-world web applications from scratch Develop powerful web applications quickly using the best coding practices Integrate other technologies into your application with clear, step-by-step explanations and comprehensive example code Book Description If you want to learn about the entire process of developing professional web applications with Django, then this book is for you. This book will walk you through the creation of four professional Django projects, teaching you how to solve common problems and implement best practices. You will learn how to build a

blog application, a social image-bookmarking website, an online shop, and an e-learning platform. The book will teach you how to enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. The book walks you through the creation of real-world applications, while solving common problems and implementing best practices. By the end of this book, you will have a deep understanding of Django and how to build advanced web applications. What you will learn: Build practical, real-world web applications with Django. Use Django with other technologies, such as Redis and

Celery. Develop pluggable Django applications. Create advanced features, optimize your code, and use the cache framework. Add internationalization to your Django projects. Enhance your user experience using JavaScript and AJAX. Add social features to your projects. Build RESTful APIs for your applications. Who this book is for: If you are a web developer who wants to see how to build professional sites with Django, this book is for you. You will need a basic knowledge of Python, HTML, and JavaScript, but you don't need to have worked with Django before. Learn Django 3 with four end-to-end web projects. Key

Features: Learn Django 3 by building real-world web applications from scratch in Python, using coding best practices. Integrate other technologies into your application with clear, step-by-step explanations and comprehensive example code. Implement advanced functionalities like a full-text search engine, a user activity stream, or a recommendation engine. Add real-time features with Django Channels and WebSockets. Book Description: If you want to learn the entire process of developing professional web applications with Python and Django, then this book is for you. In the process of building four

professional Django projects, you will learn about Django 3 features, how to solve common web development problems, how to implement best practices, and how to successfully deploy your applications. In this book, you will build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Step-by-step guidance will teach you how to integrate popular technologies, enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. By the end of this book, you will have mastered Django 3 by building advanced web applications.

What you will learn Build real-world web applications Learn Django essentials, including models, views, ORM, templates, URLs, forms, and authentication Implement advanced features such as custom model fields, custom template tags, cache, middleware, localization, and more Create complex functionalities, such as AJAX interactions, social authentication, a full-text search engine, a payment system, a CMS, a RESTful API, and more Integrate other technologies, including Redis, Celery, RabbitMQ, PostgreSQL, and Channels, into your projects Deploy Django projects in production using

NGINX, uWSGI, and Daphne Who this book is for This book is intended for developers with Python knowledge who wish to learn Django in a pragmatic way. Perhaps you are completely new to Django, or you already know a little but you want to get the most out of it. This book will help you to master the most relevant areas of the framework by building practical projects from scratch. You need to have familiarity with programming concepts in order to read this book. Some previous knowledge of HTML and JavaScript is assumed. Completely updated for Django 4.0! 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
- \* Customize the look and feel of your sites
- \* Write tests and run them for all your code
- \* Integrate user authentication, email, and custom user models
- \* 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. This book is for web developers who want to get started with Django for web development. Basic knowledge of Python programming is required but no knowledge of Django is expected. Django for Beginners takes you from total beginner to confident Django developer. Proceed step-by-step through four progressively more complex web applications: from a "Hello World" app all the way to a robust Blog app with forms and user accounts. Learn current best practices around class-based views, templates, urls, user authentication,

testing, and deployment. The material is up-to-date with the latest versions of both Django (2.0) and Python (3.6).

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- \* Conclusion

This latest edition of The Definitive Guide to Django is updated for Django 1.1, and, with the forward-compatibility guarantee that Django now provides, should serve as the ultimate tutorial and reference for this popular framework for years to come. Django, the Python-based equivalent to

Ruby's Rails web development framework, is one of the hottest topics in web development today. Lead developer Jacob Kaplan-Moss and Django creator Adrian Holovaty show you how they use this framework to create award-winning web sites by guiding you through the creation of a web application reminiscent of ChicagoCrime.org. The Definitive Guide to Django is broken into three parts, with the first introducing Django fundamentals such as installation and configuration, and creating the components that together power a Django-driven web site. The second part delves into the

more sophisticated features of Django, including outputting non-HTML content such as RSS feeds and PDFs, caching, and user management. The appendixes serve as a detailed reference to Django's many configuration options and commands. Django is the leading Python web application development framework. Learn how to leverage the Django web framework to its full potential in this advanced tutorial and reference. Endorsed by Django, Pro Django more or less picks up where The Definitive Guide to Django left off and examines in greater detail the unusual and complex problems that Python web application developers can

face and how to solve them. Provides in-depth information about advanced tools and techniques available in every Django installation. Runs the gamut from the theory of Django's internal operations to actual code that solves real-world problems for high-volume environments. Goes above and beyond other books, leaving the basics behind. Shows how Django can do things even its core developers never dreamed possible. How can you take advantage of the Django framework to integrate complex client-side interactions and real-time features into your web applications? Through a series of rapid application

development projects, this hands-on book shows experienced Django developers how to include REST APIs, WebSockets, and client-side MVC frameworks such as Backbone.js into new or existing projects. Learn how to make the most of Django's decoupled design by choosing the components you need to build the lightweight applications you want. Once

you finish this book, you'll know how to build single-page applications that respond to interactions in real time. If you're familiar with Python and JavaScript, you're good to go. Learn a lightweight approach for starting a new Django project Break reusable applications into smaller services that communicate with one another Create a static, rapid prototyping site as a

scaffold for websites and applications Build a REST API with django-rest-framework Learn how to use Django with the Backbone.js MVC framework Create a single-page web application on top of your REST API Integrate real-time features with WebSockets and the Tornado networking library Use the book's code-driven examples in your own projects