

# High Performance Django

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## **Pro Django** - Marty Alchin 2013-08-23

Learn how to leverage Django, the leading Python web application development framework, to its full potential in this advanced tutorial and reference. Updated for Django 1.5 and Python 3, Pro Django, Second Edition examines in great detail the complex problems that Python web application developers can face and how to solve them. It provides in-depth information about advanced tools and techniques available in every Django installation, running the gamut from the theory of Django's internal operations to actual code that solves real-world problems for high-volume environments. Pro Django, Second Edition goes above and beyond other books, leaving the basics far behind and showing how Django can do things even its core developers never expected. By drawing on the dynamic nature of Python, you can write Django applications that stretch the limits of what you thought possible!

## Introduction to Tornado - Michael Dory 2011-09-30

Discusses how to use the Tornado server to create powerful web applications, covering how to modify templates, use persistent storage, secure applications from vulnerabilities, and authenticate applications with external services.

## **Hands-On High Performance with Go** - Bob Strecansky 2020-03-24

Proven methodologies and concurrency techniques that will help you write faster and better code with Go programming Key FeaturesExplore Go's profiling tools to write faster programs by identifying and fixing bottlenecksAddress Go-specific performance issues such as memory allocation and garbage collectionDelve into the subtleties of concurrency and discover how to successfully implement it in everyday applicationsBook Description Go is an easy-to-write language that is popular among developers thanks to its features such as concurrency, portability, and ability to reduce complexity. This Golang book will teach you how to construct idiomatic Go code that is reusable and highly performant. Starting with an introduction to performance concepts, you'll understand the ideology behind Go's performance. You'll then learn how to effectively implement Go data structures and algorithms along with exploring data manipulation and organization to write programs for scalable software. This book covers channels and goroutines for parallelism and concurrency to write high-performance code for distributed systems. As you advance, you'll learn how to manage memory effectively. You'll explore the compute unified device architecture (CUDA) application programming interface (API), use containers to build Go code, and work with the Go build cache for quicker compilation. You'll also get to grips with profiling and tracing Go code for detecting bottlenecks in your system. Finally, you'll evaluate clusters and job queues for performance optimization and monitor the application for performance regression. By the end of this Go programming book, you'll be able to improve existing code and fulfill customer requirements by writing efficient programs. What you will learnOrganize and manipulate data effectively with clusters and job queuesExplore commonly applied Go data structures and algorithmsWrite anonymous functions in Go to build reusable appsProfile and trace Go apps to reduce bottlenecks and improve efficiencyDeploy, monitor, and iterate Go programs with a focus on performanceDive into memory management and CPU and GPU parallelism in GoWho this book is for This Golang book is a must for developers and professionals who have an intermediate-to-advanced understanding of Go programming, and are interested in improving their speed of code execution.

## **Beginning Django E-Commerce** - James McGaw 2010-06-21

Beginning Django E-Commerce guides you through producing an e-commerce site using Django, the most

popular Python web development framework. Topics covered include how to make a shopping cart, a checkout, and a payment processor; how to make the most of Ajax; and search engine optimization best practices. Throughout the book, you'll take each topic and apply it to build a single example site, and all the while you'll learn the theory behind what you're architecting. Build a fully functional e-commerce site. Learn to architect your site properly to survive in an increasingly competitive online landscape with good search engine optimization techniques. Become versed in the Django web framework and learn how you can put it to use to drastically reduce the amount of work you need to do to get a site up and running quickly.

## The Definitive Guide to Django - Adrian Holovaty 2009-08-15

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 for Beginners** - William S. Vincent 2021-12-16

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.

## **Hands-On Software Engineering with Python** - Brian Allbee 2018-10-26

Explore various verticals in software engineering through high-end systems using Python Key FeaturesMaster the tools and techniques used in software engineeringEvaluates available database options and selects one for the final Central Office system-componentsExperience the iterations software go through and craft enterprise-grade systemsBook Description Software Engineering is about more than just writing code—it includes a host of soft skills that apply to almost any development effort, no matter what the language, development methodology, or scope of the project. Being a senior developer all but requires awareness of how those skills, along with their expected technical counterparts, mesh together through a project's life cycle. This book walks you through that discovery by going over the entire life cycle of a multi-tier system and its related software projects. You'll see what happens before any development takes place, and what impact the decisions and designs made at each step have on the development process. The

development of the entire project, over the course of several iterations based on real-world Agile iterations, will be executed, sometimes starting from nothing, in one of the fastest growing languages in the world—Python. Application of practices in Python will be laid out, along with a number of Python-specific capabilities that are often overlooked. Finally, the book will implement a high-performance computing solution, from first principles through complete foundation. What you will learn Understand what happens over the course of a system's life (SDLC) Establish what to expect from the pre-development life cycle steps Find out how the development-specific phases of the SDLC affect development Uncover what a real-world development process might be like, in an Agile way Find out how to do more than just write the code Identify the existence of project-independent best practices and how to use them Find out how to design and implement a high-performance computing process Who this book is for Hands-On Software Engineering with Python is for you if you are a developer having basic understanding of programming and its paradigms and want to skill up as a senior programmer. It is assumed that you have basic Python knowledge.

*Beginning Django CMS* - Nigel George 2015-12-29

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.

**Haskell High Performance Programming** - Samuli Thomasson 2016-09-26

Boost the performance of your Haskell applications using optimization, concurrency, and parallel programming About This Book Explore the benefits of lazy evaluation, compiler features, and tools and libraries designed for high performance Write fast programs at extremely high levels of abstraction Work through practical examples that will help you address the challenges of writing efficient code Who This Book Is For To get the most out of this book, you need to have a working knowledge of reading and writing basic Haskell. No knowledge of performance, optimization, or concurrency is required. What You Will Learn Program idiomatic Haskell that's also surprisingly efficient Improve performance of your code with data parallelism, inlining, and strictness annotations Profile your programs to identify space leaks and missed opportunities for optimization Find out how to choose the most efficient data and control structures Optimize the Glasgow Haskell Compiler and runtime system for specific programs See how to smoothly drop to lower abstractions wherever necessary Execute programming for the GPU with Accelerate Implement programming to easily scale to the cloud with Cloud Haskell In Detail Haskell, with its power to optimize the code and its high performance, is a natural candidate for high performance programming. It is especially well suited to stacking abstractions high with a relatively low performance cost. This book addresses the challenges of writing efficient code with lazy evaluation and techniques often used to optimize the performance of Haskell programs. We open with an in-depth look at the evaluation of Haskell expressions and discuss optimization and benchmarking. You will learn to use parallelism and we'll explore the concept of streaming. We'll demonstrate the benefits of running multithreaded and concurrent applications. Next we'll guide you through various profiling tools that will help you identify performance issues in your program. We'll end our journey by looking at GPGPU, Cloud and Functional Reactive Programming in Haskell. At the very end there is a catalogue of robust library recommendations with code samples. By the end of the book, you will be able to boost the performance of any app and prepare it to stand up to real-world punishment. Style and approach This easy-to-follow guide teaches new practices and

techniques to optimize your code, and then moves towards more advanced ways to effectively write efficient Haskell code. Small and simple practical examples will help you test the concepts yourself, and you will be able to easily adapt them for any application.

Delphi High Performance - Primož Gabrijelčič 2018-02-26

Build fast, scalable, and high performing applications with Delphi Key Features Build efficient and concurrent applications in Delphi with focused examples Identify performance bottlenecks and apply the correct algorithm to increase the performance of applications. Delve into parallel programming and memory management to optimize your code Book Description Delphi is a cross-platform Integrated Development Environment (IDE) that supports rapid application development for Microsoft Windows, Apple Mac OS X, Google Android, iOS, and now Linux with RAD Studio 10.2. This book will be your guide to build efficient high performance applications with Delphi. The book begins by explaining how to find performance bottlenecks and apply the correct algorithm to fix them. It will teach you how to improve your algorithms before taking you through parallel programming. You'll then explore various tools to build highly concurrent applications. After that, you'll delve into improving the performance of your code and master cross-platform RTL improvements. Finally, we'll go through memory management with Delphi and you'll see how to leverage several external libraries to write better performing programs. By the end of the book, you'll have the knowledge to create high performance applications with Delphi. What you will learn Find performance bottlenecks and easily mitigate them Discover different approaches to fix algorithms Understand parallel programming and work with various tools included with Delphi Master the RTL for code optimization Explore memory managers and their implementation Leverage external libraries to write better performing programs Who this book is for This book is for Delphi developers who would like to build high performance applications with Delphi. Prior knowledge of Delphi is assumed.

**Learning Website Development with Django** - Ayman Hourieh 2008-04-11

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.

**RabbitMQ in Action** - Jason Williams 2012-04-19

Summary RabbitMQ in Action is a fast-paced run through building and managing scalable applications using the RabbitMQ messaging server. It starts by explaining how message queuing works, its history, and how RabbitMQ fits in. Then it shows you real-world examples you can apply to your own scalability and interoperability challenges. About the Technology There's a virtual switchboard at the core of most large applications where messages race between servers, programs, and services. RabbitMQ is an efficient and easy-to-deploy queue that handles this message traffic effortlessly in all situations, from web startups to massive enterprise systems. About the Book RabbitMQ in Action teaches you to build and manage scalable applications in multiple languages using the RabbitMQ messaging server. It's a snap to get started. You'll learn how message queuing works and how RabbitMQ fits in. Then, you'll explore practical scalability and interoperability issues through many examples. By the end, you'll know how to make Rabbit run like a well-oiled machine in a 24 x 7 x 365 environment. Written for developers familiar with Python, PHP, Java, .NET, or any other modern programming language. No RabbitMQ experience required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Learn fundamental messaging design patterns Use patterns for on-demand scalability Glue a PHP frontend to a backend written in anything Implement a PubSub-alerting service in 30 minutes flat Configure RabbitMQ's built-in clustering Monitor, manage, extend, and tune RabbitMQ

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Table of Contents Pulling RabbitMQ out of the hat Understanding messaging Running and administering Rabbit Solving problems with Rabbit: coding and patterns Clustering and dealing with failure Writing code that survives failure Warrens and Shovels: failover and replication Administering RabbitMQ from the Web Controlling Rabbit with the REST API Monitoring: Houston, we have a problem Supercharging and securing your Rabbit Smart

Rabbits: extending RabbitMQ

**Mastering Django: Core** - Nigel George 2016-12-23

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.

Django for Professionals - William S. Vincent 2022-05-19

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.

**Django** - Michael Dregni 2004-11-01

Django Reinhardt was arguably the greatest guitarist who ever lived, an important influence on Les Paul, Charlie Christian, B.B. King, Jerry Garcia, Chet Atkins, and many others. Yet there is no major biography of Reinhardt. Now, in Django, Michael Dregni offers a definitive portrait of this great guitarist. Handsome, charismatic, childlike, and unpredictable, Reinhardt was a character out of a picaresque novel. Born in a gypsy caravan at a crossroads in Belgium, he was almost killed in a freak fire that burned half of his body and left his left hand twisted into a claw. But with this maimed left hand flying over the frets and his right hand plucking at dizzying speed, Django became Europe's most famous jazz musician, commanding exorbitant fees--and spending the money as fast as he made it. Dregni not only chronicles this remarkably colorful life--including a fascinating account of gypsy culture--but he also sheds much light on Django's musicianship. He examines his long musical partnership with violinist Stéphane Grappelli--the one suave and smooth, the other sharper and more dissonant--and he traces the evolution of their novel string jazz ensemble, Quintette du Hot Club de France. Indeed, the author spotlights Django's amazing musical diversity, describing his swing-styled Nouveau Quintette, his big band Django's Music, and his later bebop ensemble, as well as his many compositions, including symphonic pieces influenced by Ravel and Debussy

and his unfinished organ mass inspired by Bach. And along the way, the author offers vivid snapshots of the jazz scene in Paris--colorful portraits of Josephine Baker, Bricktop, Louis Armstrong, Coleman Hawkins, and countless others--and of Django's vagabond wanderings around France, Europe, and the United States, where he toured with Duke Ellington. Capturing the extraordinary life and times of one of the great musicians of the twentieth century, Django is a must-read portrait of a true original.

*Django: Web Development with Python* Samuel Dauzon 2016-08-31

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!

**Django Unleashed** - Andrew Pinkham 2015-11-23

Django is an amazingly powerful system for creating modern, dynamic websites. But programming Django hasn't always been easy--until now. Django Unleashed is your step-by-step, beginner-friendly guide to leveraging Django's core capabilities and its powerful contributed library. You'll learn in the most effective way possible: hands on, by building a fully functional Django website from scratch. You'll even deploy the website to the cloud. As you build your website, expert Django consultant and trainer Andrew Pinkham reveals how websites operate; how Django makes building websites easy; how to write Python code that leverages its immense capabilities; and how to build solutions that are robust, reliable, and secure. You'll start simply and learn to solve increasingly challenging problems: mastering new features and

understanding how Django's architecture shapes their behavior, and gaining essential knowledge for working with any web framework, not just Django.

[Django for APIs](#) - William S. Vincent 2022-02-23

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.

[Django Design Patterns and Best Practices](#) - Anurag Ravindran 2018-05-31

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.

[Python High Performance](#) - Gabriele Lanaro 2017-05-24

Learn how to use Python to create efficient applications About This Book Identify the bottlenecks in your applications and solve them using the best profiling techniques Write efficient numerical code in NumPy, Cython, and Pandas Adapt your programs to run on multiple processors and machines with parallel programming Who This Book Is For The book is aimed at Python developers who want to improve the performance of their application. Basic knowledge of Python is expected What You Will Learn Write efficient numerical code with the NumPy and Pandas libraries Use Cython and Numba to achieve native performance Find bottlenecks in your Python code using profilers Write asynchronous code using Asyncio and RxPy Use Tensorflow and Theano for automatic parallelism in Python Set up and run distributed algorithms on a cluster using Dask and PySpark In Detail Python is a versatile language that has found applications in many industries. The clean syntax, rich standard library, and vast selection of third-party libraries make Python a wildly popular language. Python High Performance is a practical guide that shows how to leverage the power of both native and third-party Python libraries to build robust applications. The book explains how to use various profilers to find performance bottlenecks and apply the correct algorithm

to fix them. The reader will learn how to effectively use NumPy and Cython to speed up numerical code. The book explains concepts of concurrent programming and how to implement robust and responsive applications using Reactive programming. Readers will learn how to write code for parallel architectures using Tensorflow and Theano, and use a cluster of computers for large-scale computations using technologies such as Dask and PySpark. By the end of the book, readers will have learned to achieve performance and scale from their Python applications. Style and approach A step-by-step practical guide filled with real-world use cases and examples

[R High Performance Programming](#) - Aloysius Lim 2015-01-29

This book is for programmers and developers who want to improve the performance of their R programs by making them run faster with large data sets or who are trying to solve a pesky performance problem.

[Practical Django 2 and Channels 2](#) - Federico Marani 2018-12-14

Learn how to rapidly build your own ecommerce site by applying Django's battle-tested components. This book demonstrates Django's features and conventions to help you develop modern web applications quickly. You'll adopt a "learn by doing" approach and gain a deeper understanding Django by working through a project in which the real-time component will be critical. The book starts with the basics and explains the difference between a Django project and a Django app, the most important settings, how to change them, and the fundamentals of packaging. You'll then be introduced to all the standard tools of Django, along with a sample project. The book then moves on to Channels, a recent addition to the Django ecosystem. It extends the framework with support for real-time operations such as Websockets and other asynchronous features. Practical Django 2 and Channels 2 provides the practical concepts needed to create complex, database-driven websites as easily as possible. What You'll Learn Build and deploy a simple company site with Django Develop more complex, data-heavy sites using the Django ORM Integrate Django with Channels Unit-test your solutions Who This Book Is For Python developers and web developers wanting to learn Django 2 and Channels 2

[High Performance Django](#) - Peter Baumgartner 2015-03-31

Getting started with Django is easy. There are tutorials and books that literally walk you through the process of getting your first site up and running. Taking that code from your laptop to the real world is like opening Pandora's box. Should I use Apache, Gunicorn, uWSGI or something else? Where should I use caching to make things faster? How do I know if my database has the right indexes or if it needs more resources? Do I need a NoSQL database like MongoDB? The site runs great on my laptop. Why is it so slow in production? How many servers does my site need? How big should they be? What is the 20% effort that will solve 80% of my performance problems? If you've asked yourself any of these questions, you're like most Django developers. Heck, we were asking some of the same questions when we started working with Django 7 years ago at Lincoln Loop. Since then we've built, deployed, and maintained a lot of Django sites. Everything from realtime applications to large-scale CMSes with tons of traffic. Quite frankly, we made a lot of mistakes, but we learned a lot too. High Performance Django is the book we wish we had when we got started. It will give you a repeatable blueprint for building and deploying fast, scalable Django sites. More information and ebook formats available at <https://highperformancedjango.com>.

[Two Scoops of Django](#) - Audrey Roy Greenfeld 2015-05-15

"Two scoops of Django introduces you to various tips, tricks, patterns, code snippets, and techniques . . ."-- Page 4 of cover.

[Django 2 Web Development Cookbook](#) - Jake Kronika 2018-10-31

Django is a framework designed to balance rapid web development with high performance. It handles high levels of user traffic and interaction, integrates with a variety of databases, and collects and processes data in real time. This book follows a task-based approach to guide you through developing with the Django 2.1 framework, starting with ...

[High Performance Python](#) - Micha Gorelick 2020-04-30

Your Python code may run correctly, but you need it to run faster. Updated for Python 3, this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high-data-volume programs. By exploring the fundamental theory behind design choices, High Performance Python helps you gain a deeper understanding of Python's implementation. How do you take advantage of

multicore architectures or clusters? Or build a system that scales up and down without losing reliability? Experienced Python programmers will learn concrete solutions to many issues, along with war stories from companies that use high-performance Python for social media analytics, productionized machine learning, and more. Get a better grasp of NumPy, Cython, and profilers Learn how Python abstracts the underlying computer architecture Use profiling to find bottlenecks in CPU time and memory usage Write efficient programs by choosing appropriate data structures Speed up matrix and vector computations Use tools to compile Python down to machine code Manage multiple I/O and computational operations concurrently Convert multiprocessing code to run on local or remote clusters Deploy code faster using tools like Docker

**Monitoring with Graphite** - Jason Dixon 2017-03-13

Graphite has become one of the most powerful monitoring tools available today, due to its ease of use, rapid graph prototyping abilities, and a friendly rendering API. With this practical guide, system administrators and engineers will learn how to use this open source tool to track operational data you need to monitor your systems, as well as application-level metrics for profiling your services. Author Jason Dixon, member of the Graphite project, provides a thorough introduction of Graphite from the basics to the skills and tools you need for troubleshooting and scaling out its software components. If you want to learn more about monitoring systems, services, or applications, this is the book you need. Get an introduction to monitoring, including important concepts and terminology Examine the features and functionality of key Graphite components, including Carbon and Whisper Learn the typical user workflow necessary to create a basic line chart Build complex charts with chained functions and multiple axes that interact directly with the rendering API Understand how to use the native Graphite dashboard, as well as the more popular third-party dashboards Master the art of scaling and troubleshooting high-performance or highly available Graphite clusters

**The Definitive Guide to Django** - Jacob Kaplan-Moss 2008-03-08

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.

**Django 2 Web Development Cookbook-Third Edition** - Jake Kronika 2018-10-31

Create unbelievably fast, robust and secure web apps with Django Web Framework and Python 3.6 Key Features Discover solutions to a variety of web application scenarios, leveraging the power of the Django framework Understand URL routing, models, forms, templates, and RESTful services with Django 2.14 Test, deploy, and scale your web applications efficiently with Amazon Web Services Book Description Django is a framework designed to balance rapid web development with high performance. It handles high levels of user traffic and interaction, integrates with a variety of databases, and collects and processes data in real time. This book follows a task-based approach to guide you through developing with the Django 2.1 framework, starting with setting up and configuring Docker containers and a virtual environment for your project. You'll learn how to write reusable pieces of code for your models and manage database changes. You'll work with forms and views to enter and list data, applying practical examples using templates and JavaScript together for the optimum user experience. This cookbook helps you to adjust the built-in Django administration to fit your needs and sharpen security and performance to make your web applications as robust, scalable, and dependable as possible. You'll also explore integration with Django CMS, the popular content management suite. In the final chapters, you'll learn programming and debugging tricks and discover how collecting data from different sources and providing it to others in various formats can be a breeze. By the end of the book, you'll learn how to test and deploy projects to a remote dedicated server and scale your application to meet user demands. 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 Secure web applications against malicious usage and address common performance bottlenecks Integrate with, and extend, the Django CMS Construct and manage complex and deep hierarchies Import data from

local sources and external web services and export it to third parties Who this book is for This book is designed for Python developers working on fast and secure web apps that can scale over time. You'll also find this book useful if you want to upgrade to latest Django framework. A background in Python 3 along with basic knowledge of the Django framework will be useful.

**F# High Performance** - Eriawan Kusumawardhono 2017-01-18

Build powerful and fast applications with F# About This Book Explore the advanced concurrency support in F# and .NET TPL Covers major optimization techniques in F# to improve the performance of applications Use Struct, Class and Record model, Interop with C# and VB without sacrificing performance. Who This Book Is For This book is for F# developers who want to build high-performance applications. Knowledge of functional programming would be helpful. What You Will Learn Understand how the execution of functions in F# works Identify common performance bottlenecks Implement best practices to optimize performance Use the available tooling to help measure performance Combine the best practice of asynchronous and synchronous Optimize further using various F# language constructs In Detail F# is a functional programming language and is used in enterprise applications that demand high performance. It has its own unique trait: it is a functional programming language and has OOP support at the same time. This book will help you make F# applications run faster with examples you can easily break down and take into your own work. You will be able to assess the performance of the program and identify bottlenecks. Beginning with a gentle overview of concurrency features in F#, you will get to know the advanced topics of concurrency optimizations in F#, such as F# message passing agent of MailboxProcessor and further interoperability with .NET TPL. Based on this knowledge, you will be able to enhance the performance optimizations when implementing and using other F# language features. The book also covers optimization techniques by using F# best practices and F# libraries. You will learn how the concepts of concurrency and parallel programming will help in improving the performance. With this, you would be able to take advantage of multi-core processors and track memory leaks, root causes, and CPU issues. Finally, you will be able to test their applications to achieve scalability. Style and approach This easy-to-follow guide is full of hands-on examples of real-world multithreading tasks. Each topic is explained and placed in context, and for the more inquisitive, there are also more in-depth details of the concepts used.

**Django** - Moaml Mohammed 2019-10-26

DjangoWeb framework for PythonBy Max Beerbohm and moaml mohammedWhat is Django? Django is a high-level Python Web framework that encourages rapid development and clean pragmatic design. A Web framework is a set of components that provide a standard way to develop websites fast and easily. Django's primary goal is to ease the creation of complex database-driven websites. Some well known sites that use Django include PBS, Instagram, Disqus, Washington Times, Bitbucket and Mozilla. Testing Django applications. Testing is vital. The articles on testing will introduce you to unit and integration testing for your Django applications. You will also learn about the different packages and libraries available to assist with writing and running test suites. REST API Learn how to create RESTful APIs using the Django Rest Framework (DRF), an application used for rapidly building RESTful APIs based on Django models. Best practices Learn Django best practices, recommended workflow, project structure and also how to avoid common pitfalls when building Django projects. Deployment When your application is ready to leave the room and be deployed, the tutorials and articles on deployment will cover deployment options available to you and how to deploy your site to each one. Caching Fast page loads improve the experience of visiting your site. Here you'll learn about factors that slow web applications down and how you can boost performance by implementing caching.

**Building Websites with Django** - Awanish Ranjan 2021-02-16

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

[Mastering Python](#) - Rick van Hattem 2016-04-29

Master the art of writing beautiful and powerful Python by using all of the features that Python 3.5 offers About This Book Become familiar with the most important and advanced parts of the Python code style Learn the trickier aspects of Python and put it in a structured context for deeper understanding of the language Offers an expert's-eye overview of how these advanced tasks fit together in Python as a whole along with practical examples Who This Book Is For Almost anyone can learn to write working script and create high quality code but they might lack a structured understanding of what it means to be 'Pythonic'. If you are a Python programmer who wants to code efficiently by getting the syntax and usage of a few intricate Python techniques exactly right, this book is for you. What You Will Learn Create a virtualenv and start a new project Understand how and when to use the functional programming paradigm Get familiar with the different ways the decorators can be written in Understand the power of generators and coroutines without digressing into lambda calculus Create metaclasses and how it makes working with Python far easier Generate HTML documentation out of documents and code using Sphinx Learn how to track and optimize application performance, both memory and cpu Use the multiprocessing library, not just locally but also across multiple machines Get a basic understanding of packaging and creating your own libraries/applications In Detail Python is a dynamic programming language. It is known for its high readability and hence it is often the first language learned by new programmers. Python being multi-paradigm, it can be used to achieve the same thing in different ways and it is compatible across different platforms. Even if you find writing Python code easy, writing code that is efficient, easy to maintain, and reuse is not so straightforward. This book is an authoritative guide that will help you learn new advanced methods in a clear and contextualised way. It starts off by creating a project-specific environment using venv, introducing you to different Pythonic syntax and common pitfalls before moving on to cover the functional features in Python. It covers how to create different decorators, generators, and metaclasses. It also introduces you to functools.wraps and coroutines and how they work. Later on you will learn to use asyncio module for asynchronous clients and servers. You will also get familiar with different testing systems such as py.test, doctest, and unittest, and debugging tools such as Python debugger and falthandler. You will learn to optimize application performance so that it works efficiently across multiple machines and Python versions. Finally, it will teach you how to access C functions with a simple Python call. By the end of the book, you will be able to write more advanced scripts and take on bigger challenges. Style and Approach This book is a comprehensive guide that covers advanced features of the Python language, and communicate them with an authoritative understanding of the underlying rationale for how, when, and why to use them.

[The Temple of Django Database Performance](#) - Andrew Michael Brookins 2019-11-30

Improve your Django application's database performance while exploring an abandoned temple. Descend the Sacrificial Cliff of Profiling. Get lost in the Labyrinth of Indexing. Ransack the Crypt of Querying. Then get back to saving the world from unbounded queries!

[Practical Django Projects](#) - James Bennett 2009-07-31

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.

[Web Development with Django Cookbook](#) Aidas Bendoraitis 2016-01-28

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.

[Web Development with Django](#) - Ben Shaw 2021-02-25

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.

[Python Web Development with Django](#) - Jeff Forcier 2008-10-24

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 IV: Advanced Django Techniques and Features Chapter 11: Advanced Django Programming 235 Chapter 12: Advanced Django Deployment 261 Part V: Appendices Appendix A: Command Line Basics 285 Appendix B: Installing and Running Django 295 Appendix C: Tools for Practical Django Development 313 Appendix D: Finding, Evaluating, and Using Django Applications 321 Appendix E: Django on the Google App Engine 325 Appendix F: Getting Involved in the Django Project 337 Index 339 Colophon 375

[Lightweight Django](#) - Julia Elman 2014-11-03

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

**Building Django 2.0 Web Applications** - Tom Aratyn 2018-04-27

Go from the initial idea to a production-deployed web app using Django 2.0. Key Features A beginners guide to learning python's most popular framework, Django Build fully featured web projects in Django 2.0 through examples. Deploy web applications in quick and reliable fashion with Docker Book Description This project-based guide will give you a sound understanding of Django 2.0 through three full-featured applications. It starts off by building a basic IMDB clone and adding users who can register, vote on their favorite movies, and upload associated pictures. You will learn how to use the votes that your users have cast to build a list of the top 10 movies. This book will also take you through deploying your app into a production environment using Docker containers hosted on the server in Amazon's Electric Computing Cloud (EC2). Next, you're going to build a Stack Overflow clone wherein registered users can ask and answer questions. You will learn how to enable a user asking a question to accept answers and mark them as useful. You will also learn how to add search functionality to help users find questions by using Elasticsearch. You'll discover ways to apply the principles of 12 factor apps while deploying Django on the most popular web server, Apache, with mod\_wsgi. Lastly, you'll build a clone of MailChimp so users can send and create emails, and deploy it using AWS. Get set to take your basic Python skills to the next level with this comprehensive guide! What you will learn 1. Build new projects from scratch using Django 2.0 2. Provide full-text searching using Elasticsearch and Django 2.0 3. Learn Django 2.0 security best practices and how they're applied 4. Deploy a full Django 2.0 app almost anywhere with mod\_wsgi 5. Deploy a full Django 2.0 app to AWS's PaaS Elastic Beanstalk 6. Deploy a full Django 2.0 app with Docker 7. Deploy a full Django 2.0 app with NGINX and uWSGI Who this book is for If you have some basic knowledge of HTML, CSS, and Python and want to build fully-featured and secure applications using Django, then this book is for you.