Quick answers to common problems

Web Development with Django Cookbook

Second Edition

Over 90 practical recipes to help you create scalable websites
using the Django 1.8 framework

Aidas Bendoraitis

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Web Development With Django Cookbook

Italo Maia

Web Development With Django Cookbook:

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 *Django Cookbook* Logan Barton,2016-10-11 This book is an exploration of Django a Python framework for web development It begins by exploring the Admin interface for Django You will learn how to use this to read data from a model and then provide a quick interface To use the Django admin interface there are some steps that

you have to go through which have been explored in detail The various model Admin objects in Django have also been discussed in detail You will also be shown how to write views in Django which are good for displaying data to the user Shortcut functions are useful for collection of classes and helper functions that span multiple levels of MVC They are also good for introducing a form controlled coupling in a system which are explored in this book This book also explores models and databases which are good for storage of data for an application Template language is another topic that is covered in this book The following topics are discussed in this book The Django Admin Interface Writing Views File Uploads Shortcut Functions Models and Databases Django Template Language   Web Development with Django Cookbook Aidas Bendoraitis,2014 Over 70 practical recipes to create multilingual responsive and scalable websites with Django In Detail Django is easy to learn and solves all types of web development problems and questions providing Python developers 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 Web Development with Django Cookbook will guide you through all web development processes with the Django framework You will get started with the virtual environment and configuration of the project and then you will learn how to define a database structure with reusable components Find out how to tweak the administration to make the website editors happy This book deals with some important third party modules necessary for fully equipped web development What You Will Learn Configure your Django project the right way Build a database structure out of reusable model mixins Manage hierarchical structures with MPTT Play nicely with JavaScript in responsive templates Create handy template filters and tags that you can reuse in every project Master the configuration of contributed administration Extend Django CMS with your own functionality   Django Cookbook Beau Curtin,2016-06-13 Django Cookbook Web Development with Django This book is an exploration of Django which is a Python framework used for the development of web apps This book provides you with an explanation of what the framework is and its relationship to Python The first chapter guides you on how to set up the environment ready for programming with Django The Admin Interface in Django will also be discussed After reading you will learn how to set up launch and use this interface This book also guides you as to how to create views in Django The process of URL mapping models in Django and how to perform page redirection will also be discussed in this book The various ways to send E mails in Django will also be covered Generic views as well as form processing will also be discussed in detail as well as the processes for handling both cookies and sessions Here is a preview of what you ll learn Setting up the Environment The Admin Interface Creating Views in Django URL Mapping Template System Models Page Redirection Sending E mails Generic Views Form Processing in Django Uploading Files Handling Cookies Sessions in Django Memory Caching in Django Download your copy of h1 Django Cookbook by scrolling up and clicking Buy Now With 1 Click button   Web Development with Django Cookbook - Second Edition Aidas Bendoraitis,2016 If you have created websites with Django but you want to sharpen your knowledge and learn some good

approaches for how to treat different aspects of web development you should definitely read this book It is intended for intermediate and professional Django users who need to build projects which must be multilingual functional on devices of different screen sizes and which scale over time   **Django 2 Web Development Cookbook** Jake Kronika,Aidas Bendoraitis,2018-10-31 Create unbelievably fast robust and secure web apps with Django Web Framework and Python 3 6 Key FeaturesDiscover solutions to a variety of web application scenarios leveraging the power of the Django frameworkUnderstand URL routing models forms templates and RESTful services with Django 2 14Test deploy and scale your web applications efficiently with Amazon Web ServicesBook 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 learnGet started with the basic configuration necessary to start any Django projectBuild a database structure out of reusable model mixinsSecure web applications against malicious usage and address common performance bottlenecksIntegrate with and extend the Django CMSConstruct and manage complex and deep hierarchiesImport data from local sources and external web services and export it to third partiesWho 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   **Django 3 Web Development Cookbook - Fourth Edition** Aidas Bendoraitis,Jake Kronika,2020 Practical recipes for building fast robust and secure web apps using Django 3 and Python Key Features Explore the latest version of Django and learn effectively with the help of practical examples Follow a task based approach to develop professional web apps using Django and Python Learn to deploy scale and secure apps using Docker and Amazon Web Services AWS Book Description Django is a web framework for perfectionists with deadlines designed to help you build manageable medium and large web projects in a short time span This fourth edition of Django Web Development Cookbook is updated with Django 3 s latest features to guide you effectively through the development process This Django book starts by

helping you create a virtual environment and project structure for building Python web apps You ll learn how to build models views forms and templates for your web apps and then integrate JavaScript in your Django apps to add more features As you advance you ll create responsive multilingual websites ready to be shared on social networks The book will take you through uploading and processing images rendering data in HTML5 PDF and Excel using and creating APIs and navigating different data types in Django You ll become well versed in security best practices and caching techniques to enhance your website s security and speed This edition not only helps you work with the PostgreSQL database but also the MySQL database You ll also discover advanced recipes for using Django with Docker and Ansible in development staging and production environments By the end of this book you will have become proficient in using Django s powerful features and will be equipped to create robust websites What you will learn Discover how to set the basic configurations to start any Django project Understand full stack web application development using Django Build a database structure using reusable model mixins Implement security performance and deployment features in your web apps Import data from local sources and external web services and export it to your app Secure web applications against malicious usage and find and fix common performance bottlenecks Who this book is for This Django book is for Python web developers who want to build fast and secure web apps that can scale over time You ll also find this book useful if you want to upgrade to the latest Django framework Knowledge of Python 3 along with a basic understanding of the   **Web Development with Django Cookbook** Aidas Bendoraitis,2014 If you have created websites with Django but you want to sharpen your knowledge and learn some good approaches for how to treat different aspects of web development you should definitely read this book It is intended for intermediate and professional Django users who need to build projects which must be multilingual functional on devices of different screen sizes and which scale over time   Django: Web Development with Python Samuel Dauzon,Aidas Bendoraitis,Arun Ravindran,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 3 By Example** Antonio Melé,2020-03-31 Learn Django 3 with four end to end web projects Key FeaturesLearn Django 3 by building real world web applications from scratch in Python using coding best practicesIntegrate other technologies into your application with clear step by step explanations and comprehensive example codeImplement advanced functionalities like a full text search engine a user activity stream or a recommendation engineAdd real time features with Django Channels and WebSocketsBook 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 learnBuild real world web applicationsLearn Django essentials including models views ORM templates URLs forms and authenticationImplement advanced features such as custom model fields custom template tags cache middleware localization and moreCreate complex functionalities such as AJAX interactions social authentication a full text search engine a payment system a CMS a RESTful API and moreIntegrate other technologies including Redis Celery RabbitMQ PostgreSQL and Channels into your projectsDeploy Django projects in production using NGINX uWSGI and DaphneWho 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 **Building Web Applications with Flask** Italo Maia,2015-06-26 Flask is a powerful web framework that helps you build great projects using your favorite tools Flask takes the flexible Python programming language and provides a simple template for web development Once imported into Python Flask can be used to save time building web applications It goes against the flow with the microframework concept leaving most of the architecture choices to the developer Through its great API extensions and powerful patterns Flask helps you create simple projects in minutes and complex ones as soon as possible From the beginning Building Web Applications with Flask shows you how to utilize Flask s concepts extensions and components to create engaging full featured web projects You ll learn how to properly handle forms using WTForms devise convenient templates with Jinja2 tags and macros use NoSQL and SQL databases to store user data test your projects with features and unit tests create powerful authentication and user authorization as well as administrative interfaces with ease and more As Flask does not enforce an architectural recipe neither do we This book makes no coding assumptions on how you should code leaving you free to experiment *Django 3 Web Development Cookbook* Aidas Bendoraitis,Jake Kronika,2020-03-23 Practical recipes for building fast robust and secure web apps using Django 3 and Python Key Features Explore the latest version of Django and learn effectively with the help of practical examples Follow a task based approach to develop professional web apps using Django and Python Learn to deploy scale and secure apps using Docker and Amazon Web Services AWS Book Description Django is a web framework for perfectionists with deadlines designed to help you build manageable medium and large web projects in a short time span This fourth edition of Django Web Development Cookbook is updated with Django 3 s latest features to guide you effectively through the development process This Django book starts by helping you create a virtual environment and project structure for building Python web apps You ll learn how to build models views forms and templates for your web apps and then integrate JavaScript in your Django apps to add more features As you advance you ll create responsive multilingual websites ready to be shared on social networks The book will take you through uploading and processing images rendering data in HTML5 PDF and Excel

using and creating APIs and navigating different data types in Django You ll become well versed in security best practices and caching techniques to enhance your website s security and speed This edition not only helps you work with the PostgreSQL database but also the MySQL database You ll also discover advanced recipes for using Django with Docker and Ansible in development staging and production environments By the end of this book you will have become proficient in using Django s powerful features and will be equipped to create robust websites What you will learn Discover how to set the basic configurations to start any Django project Understand full stack web application development using Django Build a database structure using reusable model mixins Implement security performance and deployment features in your web apps Import data from local sources and external web services and export it to your app Secure web applications against malicious usage and find and fix common performance bottlenecks Who this book is for This Django book is for Python web developers who want to build fast and secure web apps that can scale over time You ll also find this book useful if you want to upgrade to the latest Django framework Knowledge of Python 3 along with a basic understanding of the Django framework will help you make the most of this book   **Flask Blueprints** Joel Perras,2015-11-27 Dive into the world of the Flask microframework to develop an array of web applications About This Book Structure compose and build powerful Flask HTML based applications and JSON XML based APIs using advanced application design patterns Integrate third party Flask extensions for tasks such as social authentication sending emails and interacting with databases and cache layers Build a series of Flask applications of increasing complexity Who This Book Is For If you are a Python web developer who has developed basic Flask applications and now wants to build a series of more complex web applications then this is the book for you What You Will Learn Use the virtualenv Python package to effectively isolate your development environments Convert a simple one file Flask application into a more full fledged multi package application Integrate Flask Login for simple user authentication Flask WTF for forms and Flask SQLAlchemy for database interactions Explore URL routing and dispatching in a blueprint structured application Create your own signals and consume them within your application Learn to leverage Werkzeug the WSGI library that powers much of Flask Implement custom exceptions for handling non 20x response codes Write your own CLI tools for administrative and development tasks of your Flask application using Flask Script Click Build your Flask extensions to encapsulate reusable behaviors across your applications Integrate your application with open source JavaScript based graphing libraries to create simple data visualizations In Detail Flask is a small but powerful web development framework for Python Though Flask is termed a micro framework it is no way lacking in functionality there are many extensions available to Flask which helps it to function at the same level as other large frameworks such as Django and Ruby on Rails This book will demonstrate how to develop a series of web application projects with the Python web micro framework and leverage extensions and external Python libraries and APIs to extend the development of a variety of larger and more complex web applications The book will start by explaining Python s Virtualenv library and how to create and switch between multiple

virtual environments You ll first build an SQL database backed application which will use Flask WTF Flask SQLAlchemy Jinja templates and other methods Next you ll move on to a timeline application built using concepts including pytest Flask the Blinker package data modelling for user timelines exception handling and creating and organizing CLI tools Moving on you ll discover how to implement a photo timeline application where you ll explore topics such as writing and running celery tasks API error handling and testing and Werkzeug middlewares Finally the book walks you through creating an application which fetches data from GitHub and stores it locally You will also learn how to install and configure Flask Click extension Style and approach This book covers how to effectively use the Flask micro framework to develop a series of web applications Each chapter focusses on the development of an application increasing in complexity with easy steps to follow **Mastering Flask** Jack Stouffer,2015-09-30 Gain expertise in Flask to create dynamic and powerful web applications About This Book Work with scalable Flask application structures to create complex web apps Discover the most powerful Flask extensions and learn how to create one Deploy your application to real world platforms using this step by step guide Who This Book Is For If you are a Flask user who knows the basics of the library and how to create basic web pages with HTML and CSS and you want to take your applications to the next level this is the book for you Harnessing the full power of Flask will allow you to create complex web applications with ease What You Will Learn Set up a best practices Python environment Use SQLAlchemy to programmatically query a database Develop templates in Jinja Set up an MVC environment for Flask Discover NoSQL when to use it when not to and how to use it Develop a custom Flask extension Use Celery to create asynchronous tasks In Detail Flask is a library that allows programmers to create web applications in Python Flask is a micro framework that boasts a low learning curve a large community and the power to create complex web apps However Flask is easy to learn but difficult to master Starting from a simple Flask app this book will walk through advanced topics while providing practical examples of the lessons learned After building a simple Flask app a proper app structure is demonstrated by transforming the app to use a Model View Controller MVC architecture With a scalable structure in hand the next chapters use Flask extensions to provide extra functionality to the app including user login and registration NoSQL querying a REST API an admin interface and more Next you ll discover how to use unit testing to take the guesswork away from making sure the code is performing as it should The book closes with a discussion of the different platforms that are available to deploy a Flask app on the pros and cons of each one and how to deploy on each one Style and approach With plenty of useful examples this guide introduces new concepts and then shows you how those concepts can be used in a real world environment Most sections are based around a single example app that is developed throughout the book *Power Query Cookbook* Andrea Janicijevic,2021-10-15 Leverage your source data from hundreds of different connections perform millions of different transformations and easily manage highly complex data lifecycles with Power Query Key FeaturesCollect combine and transform data using Power Query s data connectivity and data preparation featuresOvercome the problems faced while

accessing data from multiple sources and reshape it to meet your business requirementsExplore how the M language can be used to write your own customized solutionsBook Description Power Query is a data preparation tool that enables data engineers and business users to connect reshape enrich and transform their data to facilitate relevant business insights and analysis With Power Query s wide range of features you can perform no code transformations and complex M code functions at the same time to get the most out of your data This Power Query book will help you to connect to data sources achieve intuitive transformations and get to grips with preparation practices Starting with a general overview of Power Query and what it can do the book advances to cover more complex topics such as M code and performance optimization You ll learn how to extend these capabilities by gradually stepping away from the Power Query GUI and into the M programming language Additionally the book also shows you how to use Power Query Online within Power BI Dataflows By the end of the book you ll be able to leverage your source data understand your data better and enrich it with a full stack of no code and custom features that you ll learn to design by yourself for your business requirements What you will learnUnderstand how to use Power Query to connect and explore dataExplore ways to reshape and enrich dataDiscover the potential of Power Query across the Microsoft platformBuild complex and custom transformationsUse M code to write new queries against data sourcesUse the Power Query Online tool within Power BI DataflowsImplement best practices such as reusing dataflows optimizing expanding table operations and field mappingWho this book is for This book is for data analysts BI developers data engineers and anyone looking for a desk reference guide to learn how Power Query can be used with different Microsoft products to handle data of varying complexity Beginner level knowledge of Power BI and the M Language will help you to get the best out of this book   <u>FastAPI Cookbook</u> Angela Nguyen,2025-08-18 FastAPI Cookbook Practical Recipes for Building Modern Web APIs Unlock the full potential of FastAPI with this hands on practical guide FastAPI Cookbook is designed for Python developers eager to build high performance modern web APIs with ease Whether you re transitioning from frameworks like Flask or Django or just starting in web development this book provides clear step by step solutions to common challenges Inside you ll find ready to use recipes that guide you through Setting up a robust FastAPI development environment Building your first API from scratch Handling HTTP requests and responses efficiently Integrating databases and managing data Implementing authentication and security Writing tests to ensure reliability Deploying applications to the cloud Each chapter is a self contained recipe letting you dive directly into the topics that matter most but for newcomers following the book from start to finish provides a comprehensive foundation With runnable examples and practical insights FastAPI Cookbook turns complex concepts into approachable real world solutions Whether you re a beginner or a seasoned Python developer this book equips you with the skills to build scalable modern APIs that perform beautifully in production

 Python Geospatial Analysis Cookbook Michael Diener,2015-11-30 Over 60 recipes to work with topology overlays indoor routing and web application analysis with Python About This Book Explore the practical process of using geospatial analysis

to solve simple to complex problems with reusable recipes Concise step by step instructions to teach you about projections vector raster overlay indoor routing and topology analysis Create a basic indoor routing application with geodjango Who This Book Is For If you are a student teacher programmer geospatial or IT administrator GIS analyst researcher or scientist looking to do spatial analysis then this book is for you Anyone trying to answer simple to complex spatial analysis questions will get a working demonstration of the power of Python with real world data Some of you may be beginners with GIS but most of you will probably have a basic understanding of geospatial analysis and programming What You Will Learn Discover the projection and coordinate system information of your data and learn how to transform that data into different projections Import or export your data into different data formats to prepare it for your application or spatial analysis Use the power of PostGIS with Python to take advantage of the powerful analysis functions Execute spatial analysis functions on vector data including clipping spatial joins measuring distances areas and combining data to new results Create your own set of topology rules to perform and ensure quality assurance rules in Python Find the shortest indoor path with network analysis functions in easy extensible recipes revolving around all kinds of network analysis problems Visualize your data on a map using the visualization tools and methods available to create visually stunning results Build an indoor routing web application with GeoDjango to include your spatial analysis tools built from the previous recipes In Detail Geospatial development links your data to places on the Earth s surface Its analysis is used in almost every industry to answer location type questions Combined with the power of the Python programming language which is becoming the de facto spatial scripting choice for developers and analysts worldwide this technology will help you to solve real world spatial problems This book begins by tackling the installation of the necessary software dependencies and libraries needed to perform spatial analysis with Python From there the next logical step is to prepare our data for analysis we will do this by building up our tool box to deal with data preparation transformations and projections Now that our data is ready for analysis we will tackle the most common analysis methods for vector and raster data To check or validate our results we will explore how to use topology checks to ensure top quality results This is followed with network routing analysis focused on constructing indoor routes within buildings over different levels Finally we put several recipes together in a GeoDjango web application that demonstrates a working indoor routing spatial analysis application The round trip will provide you all the pieces you need to accomplish your own spatial analysis application to suit your requirements Style and approach Easy to follow step by step recipes explaining from start to finish how to accomplish real world tasks **Learn MongoDB 4.x** Doug Bierer,2020-09-11 Design administer and deploy high volume and fault tolerant database applications using MongoDB 4 x Key FeaturesBuild a powerful and scalable MongoDB database using real industry dataUnderstand the process of designing NoSQL schema with the latest release of MongoDB 4 xExplore the ins and outs of MongoDB including queries replication sharding and vital admin tasksBook Description When it comes to managing a high volume of unstructured and non relational datasets MongoDB is the defacto

database management system DBMS for DBAs and data architects This updated book includes the latest release and covers every feature in MongoDB 4 x while helping you get hands on with building a MongoDB database app You ll get to grips with MongoDB 4 x concepts such as indexes database design data modeling authentication and aggregation As you progress you ll cover tasks such as performing routine operations when developing a dynamic database driven website Using examples you ll learn how to work with queries and regular database operations The book will not only guide you through design and implementation but also help you monitor operations to achieve optimal performance and secure your MongoDB database systems You ll also be introduced to advanced techniques such as aggregation map reduce complex queries and generating ad hoc financial reports on the fly Later the book shows you how to work with multiple collections as well as embedded arrays and documents before finally exploring key topics such as replication sharding and security using practical examples By the end of this book you ll be well versed with MongoDB 4 x and be able to perform development and administrative tasks associated with this NoSQL database What you will learnUnderstand how to configure and install MongoDB 4 xBuild a database driven website using MongoDB as the backendPerform basic database operations and handle complex MongoDB queriesDevelop a successful MongoDB database design for large corporate customers with complex requirementsSecure MongoDB database systems by establishing role based access control with X 509 transport level securityOptimize reads and writes directed to a replica set or sharded clusterPerform essential MongoDB administration tasksMaintain database performance through monitoringWho this book is for This book is a MongoDB tutorial for DevOps engineers database developers database administrators system administrators and those who are just getting started with NoSQL and looking to build document oriented databases and gain real world experience in managing databases using MongoDB Basic knowledge of databases and Python is required to get started with this DBMS book   *Modern Python Cookbook* Steven F. Lott,2016-11-30 The latest in modern Python recipes for the busy modern programmer About This Book Develop succinct expressive programs in Python Learn the best practices and common idioms through carefully explained and structured recipes Discover new ways to apply Python for the new age of development Who This Book Is For The book is for web developers programmers enterprise programmers engineers big data scientist and so on If you are a beginner Python Cookbook will get you started If you are experienced it will expand your knowledge base A basic knowledge of programming would help What You Will Learn See the intricate details of the Python syntax and how to use it to your advantage Improve your code readability through functions in Python Manipulate data effectively using built in data structures Get acquainted with advanced programming techniques in Python Equip yourself with functional and statistical programming features Write proper tests to be sure a program works as advertised Integrate application software using Python In Detail Python is the preferred choice of developers engineers data scientists and hobbyists everywhere It is a great scripting language that can power your applications and provide great speed safety and scalability By exposing Python as a series of simple recipes you

can gain insight into specific language features in a particular context Having a tangible context helps make the language or standard library feature easier to understand This book comes with over 100 recipes on the latest version of Python The recipes will benefit everyone ranging from beginner to an expert The book is broken down into 13 chapters that build from simple language concepts to more complex applications of the language The recipes will touch upon all the necessary Python concepts related to data structures OOP functional programming as well as statistical programming You will get acquainted with the nuances of Python syntax and how to effectively use the advantages that it offers You will end the book equipped with the knowledge of testing web services and configuration and application integration tips and tricks The recipes take a problem solution approach to resolve issues commonly faced by Python programmers across the globe You will be armed with the knowledge of creating applications with flexible logging powerful configuration and command line options automated unit tests and good documentation Style and approach This book takes a recipe based approach where each recipe addresses specific problems and issues The recipes provide discussions and insights and an explanation of the problems   *The Digital Research Skills Cookbook* Dejan Jotanovic,Dr Tyne Daile Sumner,2018-01-15 Research Platform Services is excited to announce the publication of The Digital Research Skills Cookbook An Introduction to the Research Bazaar Community This new publication is a guide to learning and teaching digital research tools It also explains how to build your own research community Each chapter includes introductory information about the latest digital tools and challenges that encourage innovative and effective pedagogy Material is organized to facilitate practical application of digital research skills and to encourage learning by doing The book includes step by step visual introductions to learning and teaching the following tools Python R Studio Matlab Twitter Scraping Textual Analysis with NLTK TinkerCAD Inventor Fusion360 3D Slicer Omeka and LaTeX Employing the latest pedagogical practices the Digital Research Skills CookBook ensures learning is open and accessible to all Whether you want to teach yourself or start your own Research Bazaar this is the book for you

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