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Christopher Pitt

Modern Python Standard Library Cookbook Alessandro Molina,2018-08-31 Build optimized applications in Python by smartly implementing the standard library Key Features Strategic recipes for effective application development in Python Techniques to create GUIs and implement security through cryptography Best practices for developing readily scalable, production-ready applications Book Description The Python 3 Standard Library is a vast array of modules that you can use for developing various kinds of applications. It contains an exhaustive list of libraries, and this book will help you choose the best one to address specific programming problems in Python. The Modern Python Standard Library Cookbook begins with recipes on containers and data structures and guides you in performing effective text management in Python. You will find Python recipes for command-line operations, networking, filesystems and directories, and concurrent execution. You will learn about Python security essentials in Python and get to grips with various development tools for debugging, benchmarking, inspection, error reporting, and tracing. The book includes recipes to help you create graphical user interfaces for your application. You will learn to work with multimedia components and perform mathematical operations on date and time. The recipes will also show you how to deploy different searching and sorting algorithms on your data. By the end of the book, you will have acquired the skills needed to write clean code in Python and develop applications that meet your needs. What you will learn Store multiple values per key in associative containers Create interactive character-based user interfaces Work with native time and display data for your time zone Read/write SGML family languages, both as a SAX and DOM parser to meet file sizes and other requirements Group equivalent items using itertools and sorted features together Use partials to create unary functions out of multi-argument functions Implement hashing algorithms to

store passwords in a safe way Who this book is for If you are a developer who wants to write highly responsive, manageable, scalable, and resilient code in Python, this book is for you. Prior programming knowledge in Python will help you make the most out of the book.

Python API Development Fundamentals Jack Chan,Ray Chung,Jack Huang,2019-11-22 Learn all that's needed to build a fully functional web application from scratch. Key FeaturesDelve deep into the principle behind RESTful APILearn how to build a scalable web application with the RESTful API architecture and Flask frameworkKnow what are the exact tools and methodology to test your applications and how to use themBook Description Python is a flexible language that can be used for much more than just script development. By knowing the Python RESTful APIs work, you can build a powerful backend for web applications and mobile applications using Python. You'll take your first steps by building a simple API and learning how the frontend web interface can communicate with the backend. You'll also learn how to serialize and deserialize objects using the marshmallow library. Then, you'll learn how to authenticate and authorize users using Flask-JWT. You'll also learn how to enhance your APIs by adding useful features, such as email, image upload, searching, and pagination. You'll wrap up the whole book by deploying your APIs to the cloud. By the end of this book, you'll have the confidence and skill to leverage the power of RESTful APIs and Python to build efficient web applications. What you will learnUnderstand the concept of a RESTful APIBuild a RESTful API using Flask and the Flask-Restful extensionManipulate a database using Flask-SQLAlchemy and Flask-MigrateSend out plaintext and HTML format emails using the Mailgun APIImplement a pagination function using Flask-SQLAlchemyUse caching to improve API performance and efficiently obtain the latest informationDeploy an application to Heroku and test it using PostmanWho this book is for This book is ideal for aspiring

software developers who have a basic-to-intermediate knowledge of Python programming and who want to develop web applications using Python. Knowledge of how web applications work will be beneficial but is not essential.

Thoughtful Machine Learning Matthew Kirk,2014-09-26 Learn how to apply test-driven development (TDD) to machine-learning algorithms—and catch mistakes that could sink your analysis. In this practical guide, author Matthew Kirk takes you through the principles of TDD and machine learning, and shows you how to apply TDD to several machine-learning algorithms, including Naive Bayesian classifiers and Neural Networks. Machine-learning algorithms often have tests baked in, but they can't account for human errors in coding. Rather than blindly rely on machine-learning results as many researchers have, you can mitigate the risk of errors with TDD and write clean, stable machine-learning code. If you're familiar with Ruby 2.1, you're ready to start. Apply TDD to write and run tests before you start coding Learn the best uses and tradeoffs of eight machine learning algorithms Use real-world examples to test each algorithm through engaging, hands-on exercises Understand the similarities between TDD and the scientific method for validating solutions Be aware of the risks of machine learning, such as underfitting and overfitting data Explore techniques for improving your machine-learning models or data extraction

Visual Basic 2012 Unleashed Alessandro Del Sole,2013-01-17 Normal 0 false false false MicrosoftInternetExplorer4 Fully updated for Windows 8 support, .NET 4.5, and Windows Phone development, this is the most comprehensive, practical reference to modern programming with Visual Basic 2012. Written by Visual Basic MVP Alessandro Del Sole, a long-time leader of the global VB community, this book illuminates the core of the VB language and demonstrates its effective use in many current programming scenarios. Del Sole covers both Visual Basic 2012 Professional Edition for professional developers and the Express

Edition for hobbyists, novices, and students. Writing for VB programmers at all levels of experience, he walks through using VB 2012 for data access, Windows desktop/Windows Phone user interface development, networking, communication, and much more. For those moving from structured languages—including VB 6—Del Sole offers detailed guidance on building effective object-oriented code. He also demonstrates how to make the most of Microsoft's updated .NET 4.5 platform to write more robust and powerful software. Detailed information on how to... ¿ Understand the Visual Studio 2012 IDE, .NET Framework 4.5, and the anatomy of a VB 2012 application ¿ Debug VB applications and implement error handling and exceptions ¿ Build efficient object-oriented software with classes, objects, namespaces, and inheritance ¿ Work with advanced object-oriented features, including interfaces, generics, delegates, events, and collections ¿ Access data with LINQ—including LINQ to Objects, SQL, DataSets, Entities, XML, and Parallel LINQ ¿ Build modern Windows applications with WPF ¿ Develop web-centric applications using ASP.NET, Silverlight 5, and Windows Azure Services cloud computing ¿ Use advanced .NET 4.5 platform capabilities, including asynchronous programming, multithreading, parallel programming ¿ Build apps for Windows Phone ¿ Test code with unit tests, TDD, and code contracts ¿ Deploy apps efficiently with InstallShield for Visual Studio and ClickOnce

Supercharging Node.js Applications with Sequelize Daniel Durante,Sascha Depold,2022-10-28 A hands-on implementation guide to application development in Node.js using the powerful Sequelize ORM Key FeaturesUse the highly powerful JavaScript library to map your database to objects easilyBuild an application from scratch with easy-to-follow steps and examplesDiscover industry best practices, tips, and techniques on Sequelize to manage your database with easeBook Description Continuous changes in business requirements can make it difficult for

programmers to organize business logic into database models, which turns out to be an expensive operation as changes to the database may result in errors and incongruity within applications. Supercharging Node.js Applications with Sequelize helps you get to grips with Sequelize, a reliable ORM that enables you to alleviate these issues in your database and applications. With Sequelize, you'll no longer need to store information in flat files or memory. This book takes a hands-on approach to implementation and associated methodologies for your database that will have you up and running in no time. You'll learn how to configure Sequelize for your Node.js application properly, develop a better sense of understanding of how this ORM works, and find out how to manage your database from Node.js using Sequelize. Finally, you'll be able to use Sequelize as the database driver for building your application from scratch. By the end of this Node.js book, you'll be able to configure, build, store, retrieve, validate, and associate your data from a database to a Node.js application. What you will learnConfigure and optimize Sequelize for your applicationValidate your database and hydrate it with dataAdd life cycle events (or hooks) to your application for business logicOrganize and ensure the integrity of your data even on preexisting databasesScaffold a database using built-in Sequelize features and toolsDiscover industry-based best practices, tips, and techniques to simplify your application developmentWho this book is for This book is for beginner- to intermediate-level Node.js developers looking to upgrade their skills and use Sequelize as their ORM of choice. Basic knowledge of and prior experience with JavaScript and SQL are needed to make the most out of this book.

    Actor & Avatar Dieter Mersch,Anton Rey,Thomas Grunwald,Jörg Sternagel,Lorena Kegel,Miriam Laura Loertscher,2023-07-31 What kind of relationship do we have with artificial beings (avatars, puppets, robots, etc.)? What does it mean to mirror ourselves in them, to perform them or to play trial

identity games with them? Actor & Avatar addresses these questions from artistic and scholarly angles. Contributions on the making of »technical others« and philosophical reflections on artificial alterity are flanked by neuroscientific studies on different ways of perceiving living persons and artificial counterparts. The contributors have achieved a successful artistic-scientific collaboration with extensive visual material.

Avatar John Passarella,2001-03-01 Angel and Cordelia discover that the ties between a trail of corpses are the means of their death and their passion for online chatting, and Angel must find the techno-savvy demon before it completes its evil ritual.

Oracle Visual Builder Cloud Service Revealed Sten Vesterli,2019-07-10 Build and deploy an attractive, user-friendly web or mobile application in one day or less using Oracle's new, low-code development tool: Visual Builder Cloud Service. Today's IT world is fast-paced, and the ability to rapidly deliver running code is the most crucial and sought-after skill a developer can have. Oracle has brought together their enterprise experience, advanced usability knowledge, and their best cloud engineering to produce an innovative platform giving developers unprecedented productivity. You will learn how to use all aspects of Oracle Visual Builder Cloud Service to build web or mobile applications. Using the fully browser-based development environment, you'll gain experience with all the modern user-interface components that the tool offers for a visual, user-interface-driven, development approach. You'll also see how to use the integrated data management capabilities and existing REST data services to store your data, and learn how to easily transfer applications to a test/staging environment and later to production, while continuing to develop the next version in the development environment. What You'll LearnBuild great-looking web and mobile applications in a browser-based, visual design environment Define custom business logic in the visual logic editor or with JavaScript Manage multiple concurrent application

versions from development through staging and production Define business objects with validation logic for application-specific data Communicate with, and draw data from, existing REST web services Use Visual Builder Cloud Service to expand Oracle SaaS solutions Who This Book Is For Developers at all expertise levels as well as business professionals and UX designers with an interest in using IT to quickly solve simple business problems. Because this tool is based on a modern low-code approach, no prior programming experience is necessary to benefit from the book.

E-Service Digital Innovation Kyeong Kang,Fatuma Namisango,2023-12-13

Seasons of ''Avatar: The Last Airbender'' ,

The Making of Avatar Jody Duncan,Lisa Fitzpatrick,2010-10-01 The story of James Cameron and his crew's journey from Avatar's conception to the vast production effort is examined in the first authoritative and official record in words and pictures from the most significant film of today.

Mobile Forensics - The File Format Handbook Christian Hummert,Dirk Pawlaszczyk,2022 This open access book summarizes knowledge about several file systems and file formats commonly used in mobile devices. In addition to the fundamental description of the formats, there are hints about the forensic value of possible artefacts, along with an outline of tools that can decode the relevant data. The book is organized into two distinct parts. First, Part I describes several different file systems that are commonly used in mobile devices: APFS is the file system that is used in all modern Apple devices including iPhones, iPads, and even Apple Computers, like the MacBook series. Ext4 is very common in Android devices and is the successor of the Ext2 and Ext3 file systems that were commonly used on Linux-based computers. The Flash-Friendly File System (F2FS) is a Linux system designed explicitly for NAND Flash memory, common in removable storage devices and mobile devices, which Samsung

Electronics developed in 2012. The QNX6 file system is present in Smartphones delivered by Blackberry (e.g. devices that are using Blackberry 10) and modern vehicle infotainment systems that use QNX as their operating system. Second, Part II describes five different file formats that are commonly used on mobile devices: SQLite is nearly omnipresent in mobile devices with an overwhelming majority of all mobile applications storing their data in such databases. The second leading file format in the mobile world are Property Lists, which are predominantly found on Apple devices. Java Serialization is a popular technique for storing object states in the Java programming language. Mobile application (app) developers very often resort to this technique to make their application state persistent. The Realm database format has emerged over recent years as a possible successor to the now ageing SQLite format and has begun to appear as part of some modern applications on mobile devices. Protocol Buffers provide a format for taking compiled data and serializing it by turning it into bytes represented in decimal values, which is a technique commonly used in mobile devices. The aim of this book is to act as a knowledge base and reference guide for digital forensic practitioners who need knowledge about a specific file system or file format. It is also hoped to provide useful insight and knowledge for students or other aspiring professionals who want to work within the field of digital forensics. The book is written with the assumption that the reader will have some existing knowledge and understanding about computers, mobile devices, file systems and file formats.

Getting started with Flask Andrés Cruz Yoris, This guide is intended to take your first steps with Flask using Python; with this, we are going to propose two things: It is not a book that aims to know Flask 100%, or from zero to expert, since it would be too big an objective for the scope of this guide, otherwise, to know what it offers us and create the first web applications with Flask , know its extensions, create an API, use Jinja2 among others... It is

assumed that the reader has at least basic knowledge of Python development. This book has a practical approach, knowing the key aspects of the technology and moving into practice, gradually implementing small features of an application that has real scope. To follow this book you need to have a computer with Windows, Linux or MacOS. The book is currently in development. This book consists of 20 chapters, with which we will learn in detail the most important and basic features of Flask: Chapter 1: In this chapter we will give an introduction to Python, knowing its basic characteristics and functionalities such as variables, data types, functions, classes, among others. Chapter 2: In this chapter we are going to present the software necessary to create projects in Flask, what happens from Python, to preparing the environment, the editor that we will use, VSC and a web browser. Chapter 3: We present some essential commands to develop in Flask, we will prepare the environment and give an introduction to the framework, we will create a structure for the project in Flask and we will get a basic understanding of the routing for the controllers. Chapter 4: In this chapter we will see how to use the template engine par excellence in Flask, which is Jinja, with which we can return responses in HTML format and customize the page with embedded Python code with which we can customize using blocks, filters, macros, among others. Chapter 5: In this chapter we will see how to connect an application in Flask to a relational database such as MySQL using SQLAlchemy; We will see how to configure a database, connection through the models, generation of automatic migrations based on the models and basic CRUD operations to manipulate the database. Chapter 6: In this chapter we will install the Flask Migrate extension to configure a migration system for the project and in this way be able to customize the tables and have a robust schema to be able to make changes to the database in a practical and scalable way, in addition to be able to create a trace with these changes. Chapter 7: In this chapter we will use the Form WTF extension to

create forms, apply validations, initial values and later dump this data into the database, these forms are classes with the aforementioned attributes and in this way we can apply the same schema for server and client side data manipulation. Chapter 8: In this chapter we will see how to use one-to-one, one-to-many and many-to-many relationships in Flask with SQLAlchemy. Chapter 9: In this chapter we will see how to use flash messages useful to inform the user about the operations carried out. Chapter 10: In this chapter we will use Flask Login to create an authentication system and protect drivers. Chapter 11: In this chapter we will see how to implement a Rest Api using the Restful Flash package, generate access tokens and make test connections. Chapter 12: In this chapter we will see how to implement unit tests that are part of the development of any application. To do this, we will use the Pytest package available for Python. Chapter 13: In this chapter we will integrate the Bootstrap 5 web framework to our project in Flask, in this way, we will see how to use both technologies together and we will apply styles to the forms, lists, navigation menu, among others. Chapter 14: In this chapter we will use Flask Babel to add a multilanguage system to the application, to give the application the ability to use more than one language. Chapter 15: In this chapter we will learn about several Flask extensions that we have not used until this chapter, such as cache, CLI, a debug banner, email, among others. Chapter 16: In this chapter we will learn how to create custom decorators to use in controllers. Chapter 17: In this chapter we will integrate a role system into the application, in addition to this, we will enhance the user profile with several options such as the option to change the password, social networks, address, preferred language, among others. Chapter 18: In this chapter we are going to learn about some operations on the database using SQLAlchemy, in addition to knowing how to use the Flask shell. Chapter 19: In this chapter we are going to learn how to use files to manage environment
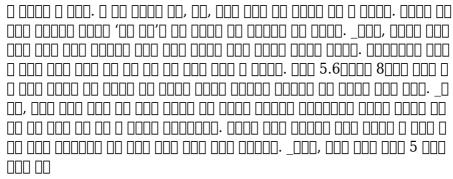
variables in Flask. Chapter 20: In this chapter we are going to create our first experiment which will be a filter to filter by search term, category and tag.

The Social Life of Avatars Ralph Schroeder,2012-12-06 Virtual reality (VR) technology has been developed commercially since the early 1990s [1]. Yet it is only with the growth of the Internet and other high-bandwidth links that VR systems have increasingly become networked to allow users to share the same virtual environment (VE). Shared YEs raise a number of interesting questions: what is the difference between face-to-face interaction and interaction between persons inside YEs? How does the appearance of the avatar - as the graphical representation of the user has become known - change the nature of interaction? And what governs the formation of virtual communities? This volume brings together contributions from social scientists and computer scientists who have conducted research on social interaction in various types of YEs. Two previous volumes in this CSCW book series [2, 3] have examined related aspects of research on YEs - social navigation and collaboration - although they do not always deal with VRIVEs in the sense that it is used here (see the definition in Chapter 1). The aim of this volume is to explore how people interact with each other in computer-generated virtual worlds.

Laravel – Die umfassende Einführung Matt Stauffer,2020-03-27 Was Laravel von anderen PHP-Web-Frameworks unterscheidet? Es ist schnell, strukturiert, elegant und macht einfach Spaß. Dieses Framework für die schnelle Anwendungsentwicklung bietet ein ganzes Ökosystem an Tools, sodass Sie schon nach kurzer Zeit in der Lage sind, neue Websites und Anwendungen mit sauberem, lesbarem Code zu erstellen. Dieses Buch bietet eine umfassende Einführung in eines der derzeit beliebtesten Web-Frameworks - inklusive erprobtem Praxiswissen und tiefergehender Einblicke in die zugrunde liegenden Konzepte. Es deckt die Version Laravel 6 (mit Long

Term Support) ab. Matt Stauffer, ein führender Entwickler der Laravel-Community, liefert einen Gesamtüberblick und eine Vielzahl konkreter Beispiele, sodass PHP-Web-Entwickler sofort produktiv mit dem Framework arbeiten können. Diese Aufgabe behandelt auch Laravel Dusk und Horizon und bietet Informationen über Community-Ressourcen sowie Pakete, die nicht zum Kern von Laravel gehören. Machen Sie sich vertraut mit: - Blade, Laravels mächtiger Templating-Engine - dem Sammeln, Validieren, Normalisieren und Filtern von benutzerdefinierten Daten - Eloquent, dem objektrelationalen Mapper für die Arbeit mit Anwendungsdatenbanken - dem Testen Ihres Codes mit PHPUnit, Mockery und Dusk - dem Entwurf von JSON- und RESTful-APIs - dem Zugriff auf Dateisystem, Sitzungen, Cookies, Caches und Suchfunktionen - dem Einsatz von Queues, Jobs, Events und Notifications - dem Einbinden von Frontend-Komponenten wie Vue.js, ReactVue.js oder React

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CSS Framework Alternatives Aravind Shenoy,Anirudh Prabhu,2018-03-10 Learn how to use lightweight CSS framework alternatives to build intuitive websites. This book presents five project examples that use Skeleton, Miligram, UI Kit, Material Design Lite and Susy. This no-nonsense introduction will help you understand the concept of designing interactive websites using these frameworks with ease. Each framework is demonstrated through a practical project in an easy-to-understand manner. Web design is streamlined nowadays thanks to CSS frameworks and, although Bootstrap and Foundation rule the roost with web design, you don't need an exhaustive framework like these for smaller websites.You'll get a glimpse into additional front-end frameworks which basically are pre-prepared packages containing structure of files and folders of HTML and CSS documents (some with JavaScript functions) that help designers and developers build interactive and immersive websites. What You'll Learn Delve deeper into the world of CSS designs Create interactive and immersive webpages with UI Kit, Material Design Life, and Susy Build a landing webpage with Skeleton Design a product page for a Secure VPN product with Milligram Who This Book Is For Readers who are familiar with basic knowledge of HTML, CSS, and JavaScript, and experienced web designers who aren't familiar with frameworks other than Bootstrap or Foundation.

R Markdown Yihui Xie,J.J. Allaire,Garrett

Grolemund,2018-07-27 R Markdown: The Definitive Guide is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports, presentations, dashboards, interactive applications, books, dissertations, websites, and journal articles, while enjoying the simplicity of Markdown and the great power of R and other languages. In this book, you will learn Basics: Syntax of Markdown and R code chunks, how to generate figures and tables, and how to use other computing languages Built-in output formats of R Markdown: PDF/HTML/Word/RTF/Markdown documents and ioslides/Slidy/Beamer/PowerPoint presentations Extensions and applications: Dashboards, Tufte handouts, xaringan/reveal.js presentations, websites, books, journal articles, and interactive tutorials Advanced topics: Parameterized reports, HTML widgets, document templates, custom output formats, and Shiny documents. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, Dynamic Documents with R and knitr, bookdown: Authoring Books and Technical Documents with R Markdown, and blogdown: Creating Websites with R Markdown. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Grolemund is the co-author of R for Data Science and author of Hands-On Programming with R. He wrote the lubridate R package and works for RStudio as an advocate who trains engineers to do data science with R and the Tidyverse.

React Components Christopher Pitt,2016-04-21 Explore the power of React components for cutting-edge web development About This Book Learn to build better websites by creating a

variety of different components in React Conceptualize the design and build maintainable web apps with the help of components A fast-paced guide to help you learn about component-based development in React Who This Book Is For This book is ideal for developers who are familiar with the basics of React and are looking for a guide to building a wide range of components as well as develop component-driven UIs. What You Will Learn How to structure an app into components Working with nested components Work with nested components Set up communication across components Style the existing components Work with Material Design as a component Render components on the server Make the best of design patterns Make the app pluggable In Detail The reader will learn how to use React and its component-based architecture in order to develop modern user interfaces. A new holistic way of thinking about UI development will establish throughout this book and the reader will discover the power of React components with many examples. After reading the book and following the example application, the reader has built a small to a mid-size application with React using a component based UI architecture. The book will take the reader through a journey to discover the benefits of component-based user interfaces over the classical MVC architecture. Throughout the book, the reader will develop a wide range of components and then bring them together to build a component-based UI. By the end of this book, readers would have learned several techniques to build powerful components and how the component-based development is beneficial over regular web development. Style and approach This book is a compact, example-driven guide that provides a step-by-step approach.

Building REST APIs with Flask Kunal Relan,2019-09-12 Develop RESTful web services using the Flask micro-framework and integrate them using MySQL. Use Flask to develop, deploy, and manage REST APIs with easy-to-read and understand Python code. Solve your problem from a choice of libraries. Learn to use

MySQL as the web services database for your Flask API using SQLAlchemy ORM. Building REST APIs with Flask provides a primer on Flask, RESTful services, and working with pip to set up your virtual environment. The key differences between NoSQL and SQL are covered, and you are taught how to connect MySQL and Flask using SQLAlchemy. Author Kunal Relan presents best practices for creating REST APIs and guides you in structuring your app and testing REST endpoints. He teaches you how to set up authentication and render HTML using views. You learn how to write unit tests for your REST APIs, and understand mocks, assertions, and integration testing. You will know how to document your REST APIs, deploy your Flask application on all of the major cloud platforms, and debug and monitor your Flask application. What You'll LearnUse MySQL to create Flask REST APIs Test REST endpoints Create CRUD endpoints with Flask and MySQL Deploy Flask on all of the major cloud platforms Monitor your Flask application Who This Book Is For Python developers interested in REST API development using Flask and web developers with basic programming knowledge who want to learn how Python and REST APIs work together. Readers should be familiar with Python (command line, or at least pip) and MySQL.

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