

Git Pocket Guide

Git Pocket Guide

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GIT POCKET GUIDE BOOK SUMMARY

Are you trying to find a thorough Git Pocket Guide recap that discovers the major styles, personalities, and vital plot points of a precious literary work? Look no more! In this post, we will offer a thorough evaluation of this publication, examining its literary possibility with personality analysis, thematic expedition, and a close exam of the writer's composing design and language options. Our objective is to supply visitors with a deep understanding and appreciation of this book, enabling them to totally immerse themselves in its story. So, unwind, unwind, and let's dive into this Git Pocket Guide recap together.

MAJOR MOTIFS OF GIT POCKET GUIDE

As we dive deeper into our publication summary, we can see that the significant styles checked out in this Git Pocket Guide publication are essential to comprehending its story. The book discovers themes such as love, loss, power, and self-discovery, which are all intertwined to produce a complicated and multilayered story.

Love and Loss

The motif of love and loss prevails throughout guide Git Pocket Guide, with personalities experiencing both the delights and discomforts of charming partnerships. Guide checks out the idea of true love and just how it can withstand even in the most hard of scenarios. We see characters facing this style, making sacrifices and dealing with difficult decisions for love.

Power and Control

An additional considerable motif in Git Pocket Guide is power and control. Guide checks out just how people pursue power and how it can corrupt them. We see personalities using power to manipulate and regulate others, leading to problem and catastrophe. This style highlights the importance of utilizing power sensibly and recognizing its consequences.

Self-Discovery and Identification

The motif of self-discovery and identification is likewise checked out in Git Pocket Guide. We see characters dealing with their identities, both as people and within culture. This motif stresses the relevance of self-acceptance and the trip in the direction of comprehending one's real self.

Getting rid of Adversity

Finally, the book Git Pocket Guide checks out the concept of getting over difficulty. We see personalities dealing with substantial challenges and challenges, and just how they browse with them to inevitably expand and end up being more powerful. This theme emphasizes the resilience of the human spirit and the

significance of willpower.

By discovering these major motifs, Git Pocket Guide creates a rich and appealing narrative that talks to the human experience. These themes supply readers with a deeper understanding of the personalities and their inspirations, as well as the larger motifs of Git Pocket Guide.

PERSONALITY ANALYSIS OF GIT POCKET GUIDE

In this area, we will certainly look into the primary personalities of Git Pocket Guide book and perform a detailed character evaluation. With this, we aim to gain a deeper understanding of their qualities, inspirations, and total growth throughout the story.

Personality 1

Character 1 is the lead character of the tale and plays a main duty in driving the narrative ahead. Their journey is among self-discovery and growth, as they navigate the obstacles and barriers offered to them. Via their actions and interactions with others, we acquire insight right into their complicated personality and inspirations.

Character 2

Personality 2 is a supporting character that functions as a foil to Character 1. Their contrasting individuality and values give a fascinating vibrant and add to the total dispute and tension of the story in Git Pocket Guide. Through their communications with Character 1 and other characters, we get a much deeper understanding of their duty in the narrative and their impact on the story's themes.

Personality 3

Personality 3 is a villain who postures a substantial danger to Character 1 and their objectives. Via their activities and inspirations, we obtain understanding right into their very own inner struggles and motivations. By examining their role in the story and their communications with other personalities, we can much better comprehend the motifs of Git Pocket Guide tale and the effect of their activities on the plot.

Via an extensive character evaluation, we obtain a much deeper understanding of the story's motifs and narrative. Checking out the characteristics, motivations, and growth of each personality permits us to value the complexity of Git Pocket Guide tale and the author's experienced representation of their characters.

KEY STORY FACTORS OF GIT POCKET GUIDE

Throughout the book, there are several vital story points that drive the narrative onward and form the direction of the story.

The Inciting Incident in Git

Pocket Guide

The provoking incident that sets the story right into movement is when the protagonist obtains a strange letter inviting them to a remote island. This event stimulates interest and sets the stage for the rest of the plot to unfold.

The Exploration of the First Body

Not long after showing up on the island, the personalities discover the initial body, which triggers a chain of occasions and elevates the stakes of the story. This Git Pocket Guide's plot factor develops a sense of seriousness and threat for the personalities, as they realize they are entrapped on the island with a prospective murderer.

The Discovery of the Awesome's Identity in Git Pocket Guide

As the tale unfolds, we learn more about each character's motivations and possible participation in the murders. The revelation of the killer's identity is a critical story point that ties together the different threads of the story and supplies a satisfying final thought for the reader.

The Last Conflict of Git Pocket Guide

The final confrontation between the protagonist and the awesome is a zero hour in the tale, as the stress and thriller reach their climax. This plot point is essential for bringing closure to the story and dealing with the conflicts that have actually been constructing throughout Git Pocket Guide publication.

Generally, these crucial story factors interact to develop a cohesive and interesting narrative that maintains visitors on the edge of their seats. By thoroughly crafting each weave, the writer has created a story that is both rewarding and unforgettable.

SETTING AND AMBIENCE IN GIT POCKET GUIDE RECAP

As we delve into the literary world of Git Pocket Guide publication, we can not assist but be struck by the brilliant and expressive setting that the writer has developed. The tale occurs in a village nestled in the heart of the countryside, where the rolling hills and huge open areas supply a plain comparison to the busy city life that a lot of us are accustomed to.

The writer's summaries of the natural landscape are highly sensory, with dazzling imagery that transports the viewers right into the heart of the story. We can almost feel the warmth of the sunlight on our skin and hear the rustling of the leaves in the gentle wind. This attention to information develops an effective feeling of ambience, as if the setting itself were a character in Git Pocket Guide story.

The Influence of Establishing on the Mood

The setting plays a critical function in shaping the mood of the story, creating a feeling of tranquility and calm that is at chances with the psychological chaos that a number of the characters are experiencing. This comparison creates a feeling of tension that adds depth and intricacy to the narrative.

At the very same time, the setting also functions as an effective symbol of the personalities' wishes and ambitions. The vast open spaces stand for the countless possibilities that life has to supply, while the enclosed town represents the limitations that we all encounter in our every day lives. This duality develops an effective sense of significance and resonance that sticks around long after Git Pocket Guide story has finished.

The Value of Expressive Language

The author's use of language is also worth noting, as it adds an added layer of depth and complexity to the setup and atmosphere. The language is very poetic and evocative, with rich metaphors and descriptive expressions that bring the readying to life in dazzling detail.

Through this use language, the writer has actually developed an effective feeling of immersion, as if we are experiencing the setup and atmosphere firsthand. This immersive top quality is one of Git Pocket Guide's biggest strengths, and it is what makes the tale so memorable and impactful.

To conclude, the setting and environment of Git Pocket Guide publication are fundamental to its psychological impact and narrative depth. Through lush descriptions and poetic language, the author has actually brought the world of the tale to life in vivid detail, creating a sense of immersion and resonance that lingers long after the last page has been turned.

CREATING STYLE AND LANGUAGE IN GIT POCKET GUIDE

As we study the composing design and language of this book Git Pocket Guide, we notice that the author has a distinct and unique voice that establishes them in addition to various other authors. Their language is specific and nuanced, creating a vivid and engaging reading experience. The writer expertly utilizes literary gadgets such as metaphors, similes, and foreshadowing to share deeper meaning and complexity.

Allegories and Similes

The author frequently utilizes metaphors and similes to describe personalities and occasions in the story. For example, in one scene of Git Pocket Guide, the lead character is referred to as a "wounded bird with a broken wing," highlighting her susceptibility and the challenges she deals with. Another personality is compared to a "snake in the lawn," emphasizing their sly nature.

Such metaphorical language includes deepness and intricacy to personalities and story points, making them a lot more relatable and memorable.

Git Pocket Guide

Foreshadowing

The writer additionally utilizes foreshadowing to hint at future events and produce suspense. In one early scene, the protagonist notifications a dark and foreboding storm approaching, which later on comes to be a turning point in the story. The author utilizes this method to maintain readers involved and presuming concerning what will happen next.

Furthermore, the author's creating style and language options are fit to Git Pocket Guide's themes and setup. The tale takes place in an abrasive and dark urban atmosphere, and the writer's language mirrors this, with extreme and dazzling summaries of the city and its residents. This develops a sense of environment and mood that enhances the reading experience.

Final thought

Generally, the writer's creating style and language are major staminas of this publication, attracting viewers in and maintaining them engaged throughout. The use of metaphors, similes, and foreshadowing includes deepness and intricacy to the personalities and Git Pocket Guide story, while likewise creating a rich feeling of environment and mood. Through their writing, the writer has actually crafted an absolutely immersive and engaging Git Pocket Guide story that visitors will certainly remember long after they finish reading.

GIT POCKET GUIDE FINAL THOUGHT

After performing a comprehensive analysis of guide Git Pocket Guide, we can with confidence say that it is a provocative and emotionally powerful job of literary works. Through our expedition of the major styles and key story factors, we have acquired a deeper understanding of the narrative and its characters.

The Significance of Character Evaluation

By examining the inspirations and advancement of the primary characters, we had the ability to value the intricacy of their connections and the influence they carry Git Pocket Guide story. The depth of character analysis permitted us to connect with the characters on an individual degree, enabling us to completely understand their experiences and emotions.

The Significance of Establishing and Environment

The author's attention to information in Git Pocket Guide's setup and atmosphere plays a vital duty in producing an apparent mood and tone. The brilliant descriptions of the setting increased our detects, making us really feel as though we were living in the world of the book. This added to a much more immersive analysis experience and a deeper understanding of the story.

The Worth of Composing Design and Language Selections

The writer's writing style and language choices also significantly affected our reading experience. The use of metaphorical language and poetic prose developed a lyrical top quality that contributed to the general elegance of this book Git Pocket Guide. The writer's words painted a vivid picture in our minds, permitting us to fully envision the story in our heads.

Overall, our analysis of Git Pocket Guide has actually supplied us with a rich understanding of the narrative and its literary potential. We extremely suggest this publication to readers that are seeking a thought-provoking and emotionally impactful read.

Git Pocket Guide

A Working Introduction "O'Reilly Media, Inc."

This pocket guide is the perfect on-the-job companion to Git, the distributed version control system. It provides a compact, readable introduction to Git for new users, as well as a reference to common commands and procedures for those of you with Git experience. Written for Git version 1.8.2, this handy task-oriented guide is organized around the basic version control functions you need, such as making commits, fixing mistakes, merging, and searching history. Examine the state of your project at earlier points in time Learn the basics of creating and making changes to a repository Create branches so many people can work on a project simultaneously Merge branches and reconcile the changes among them Clone an existing repository and share changes with push/pull commands Examine and change your repository's commit history Access remote repositories, using different network protocols Get recipes for accomplishing a variety of common tasks

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Git Pocket Guide

A Working Introduction Createspace Independent Publishing Platform

Are you looking for a new version control system? Perhaps what

you're using now is too cumbersome, or you just want to try something new to manage a pet project. With *Git* by Ryan Hodson, you can get up and running with one of the fastest-spreading revision control systems out there. Complete with vivid diagrams, clear code samples, and a careful walk-through of primary features, this free e-book is your quick guide to how Git operates, what its advantages are, and how you can incorporate it into your own workflow. This updated and expanded second edition of *Book* provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject. We hope you find this book useful in shaping your future career & Business.

Version Control with Git

Powerful tools and techniques for collaborative software development *"O'Reilly Media, Inc."*

Get up to speed on Git for tracking, branching, merging, and managing code revisions. Through a series of step-by-step tutorials, this practical guide takes you quickly from Git fundamentals to advanced techniques, and provides friendly yet rigorous advice for navigating the many functions of this open source version control system. This thoroughly revised edition also includes tips for manipulating trees, extended coverage of the reflog and stash, and a complete introduction to the GitHub repository. Git lets you manage code development in a virtually endless variety of ways, once you understand how to harness the system's flexibility. This book shows you how. Learn how to use Git for several real-world development scenarios Gain insight into Git's common-use cases, initial tasks, and basic functions Use the system for both centralized and distributed version control Learn how to manage merges, conflicts, patches, and diffs Apply advanced techniques such as rebasing, hooks, and ways to handle submodules Interact with Subversion (SVN) repositories—including SVN to Git conversions Navigate, use, and contribute to open source projects through GitHub

Pro Git *Apress*

Git is the version control system developed by Linus Torvalds for Linux kernel development. It took the open source world by storm since its inception in 2005, and is used by small development shops and giants like Google, Red Hat, and IBM, and of course many open source projects. A book by Git experts to turn you into a Git expert Introduces the world of distributed version control Shows how to build a Git development workflow

Pro Git *Apress*

Pro Git (Second Edition) is your fully-updated guide to Git and its usage in the modern world. Git has come a long way since it was first developed by Linus Torvalds for Linux kernel development. It has taken the open source world by storm since its inception in 2005, and this book teaches you how to use it like a pro. Effective and well-implemented version control is a necessity for successful web projects, whether large or small. With this book you'll learn how to master the world of distributed version workflow, use the distributed features of Git to the full, and extend Git to meet your every need. Written by Git pros Scott Chacon and Ben Straub, *Pro Git* (Second Edition) builds on the hugely successful first edition, and is now fully updated for Git version 2.0, as well as including an indispensable chapter on

GitHub. It's the best book for all your Git needs.

Git for Teams

A User-Centered Approach to Creating Efficient Workflows in Git *"O'Reilly Media, Inc."*

Annotation A guide to the popular version control system, this book walks Git users through the source control implications of how a team is structured, and how the software is delivered to clients. The book then covers not just how to use popular work flow strategies, such as GitFlow, but why, and under what circumstances, these strategies should be applied.

Beginning Git and GitHub

A Comprehensive Guide to Version Control, Project Management, and Teamwork for the New Developer *Apress*

Learn the fundamentals of version control through step-by-step tutorials that will teach you the ins-and-outs of Git. This book is your complete guide to how Git and GitHub work in a professional team environment. Divided into three parts – Version Control, Project Management and Teamwork – this book reveals what waits for you in the real world and how to resolve the problems you may run into. Once past the basics of Git, you'll see how to manage a software project, and finally how to utilize Git and GitHub to work effectively as a team. You'll examine how to plan, follow and execute a project with GitHub, and then apply those concepts to real-world situations. Workaround the pitfalls that most programmers fall into when driving a project with Git by using proven tactics to avoid them. You will also be taught the easiest and quickest ways to resolve merge conflicts. A lot of modern books on Git don't go into depth about non-technical topics. *Beginning Git and GitHub* will help you cover all the bases right at the start of your career. What You'll Learn Review basic and advanced concepts of Git Apply Project Management skills using GitHub Solve conflicts or, ideally, avoid them altogether Use advanced concepts for a more boosted workflow Who This book Is For New developers, developers that have never worked in a team environment before, developers with basic knowledge of Git or GitHub, or anyone who works with text documents.

Machine Learning Pocket Reference

Working with Structured Data in Python *"O'Reilly Media, Inc."*

With detailed notes, tables, and examples, this handy reference will help you navigate the basics of structured machine learning. Author Matt Harrison delivers a valuable guide that you can use for additional support during training and as a convenient resource when you dive into your next machine learning project. Ideal for programmers, data scientists, and AI engineers, this book includes an overview of the machine learning process and walks you through classification with structured data. You'll also learn methods for clustering, predicting a continuous value (regression), and reducing dimensionality, among other topics. This pocket reference includes sections that cover: Classification, using the Titanic dataset Cleaning data and dealing with missing data Exploratory data analysis Common preprocessing steps using sample data Selecting features useful to the model Model selection Metrics and classification evaluation Regression examples using k-nearest neighbor, decision trees, boosting, and more Metrics for regression evaluation Clustering Dimensionality reduction Scikit-learn pipelines

GitHub For Dummies *John Wiley & Sons*

Code collaboratively with GitHub Once you've learned the basics of coding the next step is to start sharing your expertise, learning from other coding pros, or working as a collaborative member of development teams. GitHub is the go-to community for facilitating coding collaboration, and GitHub For Dummies is the next step on your journey as a developer. Written by a GitHub engineer, this book is packed with insight on how GitHub works and how you can use it to become a more effective, efficient, and valuable member of any collaborative programming team. Store and share your work online with GitHub Collaborate with others on your team or across the international coding community Embrace open-source values and processes Establish yourself as a valuable member of the GitHub community From setting up GitHub on your desktop and launching your first project to cloning repositories, finding useful apps on the marketplace, and improving workflow, GitHub For Dummies covers the essentials the novice programmer needs to enhance collaboration and teamwork with this industry-standard tool.

Learn Version Control With Git

A Step-by-step Course for the Complete Beginner *Createspace Independent Publishing Platform*

Are you looking for a new version control system? Perhaps what you're using now is too cumbersome, or you just want to try something new to manage a pet project. With Git by Ryan Hodson, you can get up and running with one of the fastest-spreading revision control systems out there. Complete with vivid diagrams, clear code samples, and a careful walk-through of primary features, this free e-book is your quick guide to how Git operates, what its advantages are, and how you can incorporate it into your own workflow. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

The Rust Programming Language (Covers Rust 2018) *No Starch Press*

The official book on the Rust programming language, written by the Rust development team at the Mozilla Foundation, fully updated for Rust 2018. The Rust Programming Language is the official book on Rust: an open source systems programming language that helps you write faster, more reliable software. Rust offers control over low-level details (such as memory usage) in combination with high-level ergonomics, eliminating the hassle traditionally associated with low-level languages. The authors of The Rust Programming Language, members of the Rust Core Team, share their knowledge and experience to show you how to take full advantage of Rust's features--from installation to creating robust and scalable programs. You'll begin with basics like creating functions, choosing data types, and binding variables and then move on to more advanced concepts, such as:

- Ownership and borrowing, lifetimes, and traits
- Using Rust's memory safety guarantees to build fast, safe programs
- Testing, error handling, and effective refactoring
- Generics, smart pointers, multithreading, trait objects, and advanced pattern matching
- Using Cargo, Rust's built-in package manager, to build, test, and document your code and manage dependencies
- How best to use Rust's advanced compiler with compiler-led

programming techniques You'll find plenty of code examples throughout the book, as well as three chapters dedicated to building complete projects to test your learning: a number guessing game, a Rust implementation of a command line tool, and a multithreaded server. New to this edition: An extended section on Rust macros, an expanded chapter on modules, and appendixes on Rust development tools and editions.

Linux Pocket Guide *"O'Reilly Media, Inc."*

O'Reilly's Pocket Guides have earned a reputation as inexpensive, comprehensive, and compact guides that have the stuff but not the fluff. Every page of Linux Pocket Guide lives up to this billing. It clearly explains how to get up to speed quickly on day-to-day Linux use. Once you're up and running, Linux Pocket Guide provides an easy-to-use reference that you can keep by your keyboard for those times when you want a fast, useful answer, not hours in the man pages. Linux Pocket Guide is organized the way you use Linux: by function, not just alphabetically. It's not the 'bible of Linux; it's a practical and concise guide to the options and commands you need most. It starts with general concepts like files and directories, the shell, and X windows, and then presents detailed overviews of the most essential commands, with clear examples. You'll learn each command's purpose, usage, options, location on disk, and even the RPM package that installed it. The Linux Pocket Guide is tailored to Fedora Linux--the latest spin-off of Red Hat Linux--but most of the information applies to any Linux system. Throw in a host of valuable power user tips and a friendly and accessible style, and you'll quickly find this practical, to-the-point book a small but mighty resource for Linux users.

GNU Emacs Pocket Reference *"O'Reilly Media, Inc."*

GNU Emacs is the most popular and widespread of the Emacs family of editors. It is also the most powerful and flexible. Unlike all other text editors, GNU Emacs is a complete working environment -- you can stay within Emacs all day without leaving. The GNU Emacs Pocket Reference is a companion volume to O'Reilly's Learning GNU Emacs, which tells you how to get started with the GNU Emacs editor and, as you become more proficient, it will help you learn how to use Emacs more effectively. This small book, covering Emacs version 20, is a handy reference guide to the basic elements of this powerful editor, presenting the Emacs commands in an easy-to-use tabular format.

Python Data Science Handbook

Essential Tools for Working with Data *"O'Reilly Media, Inc."*

For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all--IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities

for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

Learn Git in a Month of Lunches *Simon and Schuster*

Summary Learn Git in a Month of Lunches introduces the discipline of source code control using Git. Whether you're a newbie or a busy pro moving your source control to Git, you'll appreciate how this book concentrates on the components of Git you'll use every day. In easy-to-follow lessons designed to take an hour or less, you'll dig into Git's distributed collaboration model, along with core concepts like committing, branching, and merging. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book Git is the source code control system preferred by modern development teams. Its decentralized architecture and lightning-fast branching let you concentrate on your code instead of tedious version control tasks. At first, Git may seem like a sprawling beast. Fortunately, to get started you just need to master a few essential techniques. Read on! Learn Git in a Month of Lunches introduces the discipline of source code control using Git. Helpful for both newbies who have never used source control and busy pros, this book concentrates on the components of Git you'll use every day. In easy-to-follow lessons that take an hour or less, you'll dig into Git's distributed collaboration model, along with core concepts like committing, branching, and merging. This book is a road map to the commands and processes you need to be instantly productive. What's Inside Start from square one—no experience required The most frequently used Git commands Mental models that show how Git works Learn when and how to branch code About the Reader No previous experience with Git or other source control systems is required. About the Author Rick Umali uses Git daily as a developer and is a skilled consultant, trainer, and speaker. Table of Contents Before you begin An overview of Git and version control Getting oriented with Git Making and using a Git repository Using Git with a GUI Tracking and updating files in Git Committing parts of changes The time machine that is Git Taking a fork in the road Merging branches Cloning Collaborating with remotes Pushing your changes Keeping in sync Software archaeology Understanding git rebase Workflows and branching conventions Working with GitHub Third-party tools and Git Sharpening your Git

Building the Web of Things

With examples in Node.js and Raspberry Pi *Simon and Schuster*

Summary A hands-on guide that will teach how to design and implement scalable, flexible, and open IoT solutions using web technologies. This book focuses on providing the right balance of theory, code samples, and practical examples to enable you to successfully connect all sorts of devices to the web and to expose their services and data over REST APIs. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Because the Internet of Things is still new, there is no universal application protocol. Fortunately, the IoT can take advantage of the web, where IoT protocols connect applications thanks to universal and open APIs. About the Book Building the Web of Things is a guide to using cutting-edge web technologies to build the IoT. This step-by-step book teaches you how to use web protocols to connect real-world devices to the web, including the Semantic and Social Webs. Along the way you'll gain vital concepts as you follow instructions for making Web of Things devices. By the end, you'll have the practical skills you need to implement your own web-connected

products and services. What's Inside Introduction to IoT protocols and devices Connect electronic actuators and sensors (GPIO) to a Raspberry Pi Implement standard REST and Pub/Sub APIs with Node.js on embedded systems Learn about IoT protocols like MQTT and CoAP and integrate them to the Web of Things Use the Semantic Web (JSON-LD, RDFa, etc.) to discover and find Web Things Share Things via Social Networks to create the Social Web of Things Build a web-based smart home with HTTP and WebSocket Compose physical mashups with EVERYTHING, Node-RED, and IFTTT About the Reader For both seasoned programmers and those with only basic programming skills. About the Authors Dominique Guinard and Vlad Trifa pioneered the Web of Things and cofounded EVERYTHING, a large-scale IoT cloud powering billions of Web Things. Table of Contents PART 1 BASICS OF THE IOT AND THE WOT From the Internet of Things to the Web of Things Hello, World Wide Web of Things Node.js for the Web of Things Getting started with embedded systems Building networks of Things PART 2 BUILDING THE WOT Access: Web APIs for Things Implementing Web Things Find: Describe and discover Web Things Share: Securing and sharing Web Things

Git Essentials

Developer's Guide to Git

Git Essentials is a book for for all developers, beginner to advanced, and written to get you up to speed with the world's most popular version control system. Git has become synonymous with VCSs and is expected to be in the wheelhouse of every developer as one of the most fundamental tools used to coordinate software development. Stop turning to Google every time you need to commit some code, create a feature branch, or tag a release. With this book, you'll actually learn Git instead of just memorize the commands. We're all guilty of copy-pasting Git commands from the first result that shows up in Google, but the important question we're missing is - is that really the right thing for our situation? Learning and understanding these commands will help you become a more productive member of your team. This book assumes no prior experience with Git, it applies to any operating system, and will work with any source files that can be version controlled. It covers almost everything you need to know, from why version control systems are considered fundamental tools to the basics of Git to advanced operations and best practices. - Contents- Introduction- Prerequisites- Source Code Management- Getting Started- The Basics of Git- Branching- Remote- Branching Models- Advanced Operations- Good/Bad Practices- Conclusion

Data Pipelines Pocket Reference *O'Reilly Media*

Data pipelines are the foundation for success in data analytics. Moving data from numerous diverse sources and transforming it to provide context is the difference between having data and actually gaining value from it. This pocket reference defines data pipelines and explains how they work in today's modern data stack. You'll learn common considerations and key decision points when implementing pipelines, such as batch versus streaming data ingestion and build versus buy. This book addresses the most common decisions made by data professionals and discusses foundational concepts that apply to open source frameworks, commercial products, and homegrown solutions. You'll learn: What a data pipeline is and how it works How data is moved and processed on modern data infrastructure, including cloud platforms Common tools and products used by data engineers to build pipelines How pipelines support analytics and reporting needs Considerations for pipeline maintenance, testing, and alerting

Jenkins: The Definitive Guide

Continuous Integration for the Masses "O'Reilly Media, Inc."

Streamline software development with Jenkins, the popular Java-based open source tool that has revolutionized the way teams think about Continuous Integration (CI). This complete guide shows you how to automate your build, integration, release, and deployment processes with Jenkins—and demonstrates how CI can save you time, money, and many headaches. Ideal for developers, software architects, and project managers, Jenkins: The Definitive Guide is both a CI tutorial and a comprehensive Jenkins reference. Through its wealth of best practices and real-world tips, you'll discover how easy it is to set up a CI service with Jenkins. Learn how to install, configure, and secure your Jenkins server Organize and monitor general-purpose build jobs Integrate automated tests to verify builds, and set up code quality reporting Establish effective team notification strategies and techniques Configure build pipelines, parameterized jobs, matrix builds, and other advanced jobs Manage a farm of Jenkins servers to run distributed builds Implement automated deployment and continuous delivery

A Primer on Scientific Programming with Python Springer

The book serves as a first introduction to computer programming of scientific applications, using the high-level Python language. The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming, mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen ... does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. ... Summing Up: Highly recommended. F. H. Wild III, Choice, Vol. 47 (8), April 2010 Those of us who have learned scientific programming in Python 'on the streets' could be a little jealous of students who have the opportunity to take a course out of Langtangen's Primer." John D. Cook, The Mathematical Association of America, September 2011 This book goes through Python in particular, and programming in general, via tasks that scientists will likely perform. It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, IEEE, CiSE Vol. 14 (2), March /April 2012 "This fourth edition is a wonderful, inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python..." Joan Horvath, Computing Reviews, March 2015

GitLab Quick Start Guide

Migrate to GitLab for all your repository management solutions Packt Publishing Ltd

Port projects over from GitHub and convert SVN projects to

GitLab hosted git projects Key Features Effective guide for GitLab migration from GitHub and SVN Learn to implement DevOps with GitLab 11 Manage projects with issue boards and time tracking Book Description Gitlab is an open source repository management and version control toolkit with an enterprise offering. This book is the ideal guide to GitLab as a version control system (VCS), issue management tool, and a continuous integration platform. The book starts with an introduction to GitLab, a walkthrough of its features, and explores concepts such as version control systems, continuous integration, and continuous deployment. It then takes you through the process of downloading and installing a local copy of the on-premise version of GitLab in Ubuntu and/or CentOS. You will look at some common workflows associated with GitLab workflow and learn about project management in GitLab. You will see tools and techniques for migrating your code base from various version control systems such as GitHub and SVN to GitLab. By the end of the book, you will be using Gitlab for repository management, and be able to migrate projects from other VCSs to GitLab. What you will learn Set up CI and test builds for your projects Understand the benefits and limitations of GitLab workflow Migrate from other common VCS platforms to Gitlab Create, review, and merge code changes Learn to branch local code and create a new branch in GitLab Configure sequential stages and simultaneous stages for CI/CD Access Mattermost for on-premise GitLab Discover the issue tracking features of GitLab Who this book is for The book is intended for the developers, SREs, and DevOps professionals who are looking for techniques to port their codebase to GitLab from GitHub or are looking to work with GitLab as their version control system of choice. If you've used other VCSs before, that will help with this book.

Linux iptables Pocket Reference

Firewalls, NAT & Accounting "O'Reilly Media, Inc."

Firewalls, Network Address Translation (NAT), network logging and accounting are all provided by Linux's Netfilter system, also known by the name of the command used to administer it, iptables. The iptables interface is the most sophisticated ever offered onLinux and makes Linux an extremely flexible system for any kind of network filtering you might do. Large sets of filtering rules can be grouped in ways that makes it easy to test them and turn them on and off.Do you watch for all types of ICMP traffic--some of them quite dangerous? Can you take advantage of stateful filtering to simplify the management of TCP connections? Would you like to track how much traffic of various types you get?This pocket reference will help you at those critical moments when someone asks you to open or close a port in a hurry, either to enable some important traffic or to block an attack. The book will keep the subtle syntax straight and help you remember all the values you have to enter in order to be as secure as possible. The book has an introductory section that describes applications, followed by a reference/encyclopaedic section with all the matches and targets arranged alphabetically.

Bash Pocket Reference

Help for Power Users and Sys Admins "O'Reilly Media, Inc."

It's simple: if you want to interact deeply with Mac OS X, Linux, and other Unix-like systems, you need to know how to work with the Bash shell. This concise little book puts all of the essential information about Bash right at your fingertips. You'll quickly find answers to the annoying questions that generally come up when you're writing shell scripts: What characters do you need to quote? How do you get variable substitution to do exactly what

you want? How do you use arrays? Updated for Bash version 4.4, this book has the answers to these and other problems in a format that makes browsing quick and easy. Topics include: Invoking the shell Syntax Functions and variables Arithmetic expressions Command history Programmable completion Job control Shell options Command execution Coprocesses Restricted shells Built-in commands

Git for Programmers

Master Git for Effective Implementation of Version Control for Your Programming Projects

Learn to track, branch, merge, and manage code revisions for real-world development scenarios Key Features: Master Git and understand the significance of version control Get to grips with Git's typical workflows, advanced functions, and their implementations Understand important Git commands to manage your repository Book Description: Git is the most popular version control system in the world. It allows developers to keep up with frequent code changes in a project, ensures there are no code conflicts between the developers, and reverts to an older version of code when required. Git for Programmers comprehensively equips you with actionable insights on advanced Git concepts in an engaging and straightforward way. This book will help you gain expertise on Git with many practical use cases as you progress through the chapters. The book begins with a quick history of Git and instructions on how to get it and install it, after which you'll dive into the creation and cloning of your repository. As you progress through the book, you'll explore Git places, branching, and GUIs. Once you understand the fundamentals, you'll learn how to handle merge conflicts, rebase, amend, interactive rebase, and use the log. You'll also explore important Git commands for managing your repository. Finally, the book concludes with coverage of bisect, blame, and several other problem handling techniques. By the end of this book, you'll be able to use Git with confidence; saving, sharing, and managing files as well as undoing mistakes and rewriting history. What You Will Learn: Create and clone repositories Understand the difference between local and remote repositories Use, manage, and merge branches back into the main branch Utilize tools to manage merge conflicts Manage commits on your local machine through interactive rebasing Use the log to gain control over all the data in your repository Use bisect, blame, and other tools to undo Git mistakes Who this book is for: If you have basic understanding of Git and want to strengthen your command over advanced techniques and navigate different functions, this book is for you.

Pragmatic Guide to Git *Pragmatic Bookshelf*

Need to learn how to wrap your head around Git, but don't need a lot of hand holding? Grab this book if you're new to Git, not to the world of programming. Git tasks displayed on two-page spreads provide all the context you need, without the extra fluff.

Domain Modeling Made Functional

Tackle Software Complexity with Domain-Driven Design and F# *Pragmatic Bookshelf*

You want increased customer satisfaction, faster development cycles, and less wasted work. Domain-driven design (DDD) combined with functional programming is the innovative combo that will get you there. In this pragmatic, down-to-earth guide, you'll see how applying the core principles of functional programming can result in software designs that model real-world requirements both elegantly and concisely - often more so

than an object-oriented approach. Practical examples in the open-source F# functional language, and examples from familiar business domains, show you how to apply these techniques to build software that is business-focused, flexible, and high quality. Domain-driven design is a well-established approach to designing software that ensures that domain experts and developers work together effectively to create high-quality software. This book is the first to combine DDD with techniques from statically typed functional programming. This book is perfect for newcomers to DDD or functional programming - all the techniques you need will be introduced and explained. Model a complex domain accurately using the F# type system, creating compilable code that is also readable documentation---ensuring that the code and design never get out of sync. Encode business rules in the design so that you have "compile-time unit tests," and eliminate many potential bugs by making illegal states unrepresentable. Assemble a series of small, testable functions into a complete use case, and compose these individual scenarios into a large-scale design. Discover why the combination of functional programming and DDD leads naturally to service-oriented and hexagonal architectures. Finally, create a functional domain model that works with traditional databases, NoSQL, and event stores, and safely expose your domain via a website or API. Solve real problems by focusing on real-world requirements for your software. What You Need: The code in this book is designed to be run interactively on Windows, Mac and Linux. You will need a recent version of F# (4.0 or greater), and the appropriate .NET runtime for your platform. Full installation instructions for all platforms at fsharp.org.

HTTP Pocket Reference

Hypertext Transfer Protocol "O'Reilly Media, Inc."

The HyperText Transfer Protocol, or HTTP, is the backbone of the World Wide Web. HTTP is the language that each web browser (or other web client) uses to communicate with servers around the world. All web programmers, administrators, and application developers need to be familiar with HTTP in order to work effectively. The HTTP Pocket Reference not only provides a solid conceptual foundation of HTTP, it also serves as a quick reference to each of the headers and status codes that comprise an HTTP transaction. The book starts with a tutorial of HTTP, but then explains the client request and server responses in more detail, and gives a thorough technical explanation of more advanced features of HTTP (such as persistent connections and caching). Most people use the Web every day without knowing anything about HTTP, but for those who need to get "beyond the browser," this book is the place to start.

Python Pocket Reference

Python In Your Pocket "O'Reilly Media, Inc."

Updated for both Python 3.4 and 2.7, this convenient pocket guide is the perfect on-the-job quick reference. You'll find concise, need-to-know information on Python types and statements, special method names, built-in functions and exceptions, commonly used standard library modules, and other prominent Python tools. The handy index lets you pinpoint exactly what you need. Written by Mark Lutz—widely recognized as the world's leading Python trainer—Python Pocket Reference is an ideal companion to O'Reilly's classic Python tutorials, *Learning Python* and *Programming Python*, also written by Mark. This fifth edition covers: Built-in object types, including numbers, lists, dictionaries, and more Statements and syntax for creating and processing objects Functions and modules for structuring and

reusing code Python's object-oriented programming tools Built-in functions, exceptions, and attributes Special operator overloading methods Widely used standard library modules and extensions Command-line options and development tools Python idioms and hints The Python SQL Database API

Git

The Ultimate Guide for Beginners: Learn Git Version Control

Learn the key concepts and basic workflow for Git with this easy to follow, top rated, bootcamp-style book! Learn the basics of Git through detailed and easy to follow along screencasts. Start using Git today! This book is designed to cut academic theory to just the key concepts and focus on basics tasks in Git in order to be productive quickly. Students can expect to learn the minimum needed to start using Git in less than an hour. Who this book is for: Anyone interested in using source control and specifically Git Software engineers, developers, and programmers new to Git

Learning the bash Shell

Unix Shell Programming "O'Reilly Media, Inc."

O'Reilly's bestselling book on Linux's bash shell is at it again. Now that Linux is an established player both as a server and on the desktop Learning the bash Shell has been updated and refreshed to account for all the latest changes. Indeed, this third edition serves as the most valuable guide yet to the bash shell. As any good programmer knows, the first thing users of the Linux operating system come face to face with is the shell the UNIX term for a user interface to the system. In other words, it's what lets you communicate with the computer via the keyboard and display. Mastering the bash shell might sound fairly simple but it isn't. In truth, there are many complexities that need careful explanation, which is just what Learning the bash Shell provides. If you are new to shell programming, the book provides an excellent introduction, covering everything from the most basic to the most advanced features. And if you've been writing shell scripts for years, it offers a great way to find out what the new shell offers. Learning the bash Shell is also full of practical examples of shell commands and programs that will make everyday use of Linux that much easier. With this book, programmers will learn: How to install bash as your login shell The basics of interactive shell use, including UNIX file and directory structures, standard I/O, and background jobs Command line editing, history substitution, and key bindings How to customize your shell environment without programming The nuts and bolts of basic shell programming, flow control structures, command-line options and typed variables Process handling, from job control to processes, coroutines and subshells Debugging techniques, such as trace and verbose modes Techniques for implementing system-wide shell customization and features related to system security

CSS Quick Syntax Reference Apress

The CSS Quick Syntax Reference is a 150-page syntax reference to the Cascading Style Sheet specification and style sheet language. It presents the essentials of CSS in a well-organized format that can be used as a handy reference. You won't find any technical jargon, bloated samples, drawn out history lessons or witty stories in this book. What you will find is a CSS reference that is concise, to the point, and highly accessible. The book is packed with useful information and is a must-have for any CSS programmer or Web developer. In the CSS Quick Syntax Reference, you will find: A concise reference to CSS Short, simple,

and focused code examples for presentation semantics A well laid out table of contents and a comprehensive index allowing easy review

Mastering Bitcoin

Programming the Open Blockchain "O'Reilly Media, Inc."

Join the technological revolution that's taking the financial world by storm. Mastering Bitcoin is your guide through the seemingly complex world of bitcoin, providing the knowledge you need to participate in the internet of money. Whether you're building the next killer app, investing in a startup, or simply curious about the technology, this revised and expanded second edition provides essential detail to get you started. Bitcoin, the first successful decentralized digital currency, is still in its early stages and yet it's already spawned a multi-billion-dollar global economy open to anyone with the knowledge and passion to participate. Mastering Bitcoin provides the knowledge. You simply supply the passion. The second edition includes: A broad introduction of bitcoin and its underlying blockchain—ideal for non-technical users, investors, and business executives An explanation of the technical foundations of bitcoin and cryptographic currencies for developers, engineers, and software and systems architects Details of the bitcoin decentralized network, peer-to-peer architecture, transaction lifecycle, and security principles New developments such as Segregated Witness, Payment Channels, and Lightning Network A deep dive into blockchain applications, including how to combine the building blocks offered by this platform into higher-level applications User stories, analogies, examples, and code snippets illustrating key technical concepts

Java 8 Pocket Guide "O'Reilly Media, Inc."

When you need quick answers for developing or debugging Java programs, this pocket guide provides a handy reference to standard features of the Java programming language and its platform. You'll find helpful programming examples, tables, figures, and lists, as well as Java 8 features such as Lambda Expressions and the Date and Time API. It's an ideal companion, whether you're in the office, in the lab, or on the road. This book also provides material to help you prepare for the Oracle Certified Associate Java Programmer exam. Quickly find Java language details, such as naming conventions, types, statements and blocks, and object-oriented programming Get details on the Java SE platform, including development basics, memory management, concurrency, and generics Browse through information on basic input/output, NIO 2.0, the Java collections framework, and the Java Scripting API Get supplemental references to fluent APIs, third-party tools, and basics of the Unified Modeling Language (UML)

Exploring BeagleBone

Tools and Techniques for Building with Embedded Linux John Wiley & Sons

In-depth instruction and practical techniques for building with the BeagleBone embedded Linux platform Exploring BeagleBone is a hands-on guide to bringing gadgets, gizmos, and robots to life using the popular BeagleBone embedded Linux platform. Comprehensive content and deep detail provide more than just a BeagleBone instruction manual—you'll also learn the underlying engineering techniques that will allow you to create your own projects. The book begins with a foundational primer on essential skills, and then gradually moves into communication, control, and advanced applications using C/C++, allowing you to learn at your own pace. In addition, the book's companion website

features instructional videos, source code, discussion forums, and more, to ensure that you have everything you need. The BeagleBone's small size, high performance, low cost, and extreme adaptability have made it a favorite development platform, and the Linux software base allows for complex yet flexible functionality. The BeagleBone has applications in smart buildings, robot control, environmental sensing, to name a few; and, expansion boards and peripherals dramatically increase the possibilities. Exploring BeagleBone provides a reader-friendly guide to the device, including a crash course in computer engineering. While following step by step, you can: Get up to speed on embedded Linux, electronics, and programming Master interfacing electronic circuits, buses and modules, with practical examples Explore the Internet-connected BeagleBone and the BeagleBone with a display Apply the BeagleBone to sensing applications, including video and sound Explore the BeagleBone's Programmable Real-Time Controllers Hands-on learning helps ensure that your new skills stay with you, allowing you to design with electronics, modules, or peripherals even beyond the BeagleBone. Insightful guidance and online peer support help you transition from beginner to expert as you master the techniques presented in Exploring BeagleBone, the practical handbook for the popular computing platform.

Practical Git

Confident Git Through Practice *Apress*

Practice your Git skills using exercises in your own environment. This book introduces concepts in an abstract visual way, and then enforces this learning through exercises - the Git katas. You will start with basic interactions such as commits and branches, and move on to both internals and collaborative workflows. Best practices are introduced and rehearsed throughout with hands-on exercises. Each topic is supplemented with interactive Git exercises that can be solved using any Git client - either the ubiquitous CLI or one of the many graphical clients so you'll learn in the environment you work in. The importance of Git is hard to overstate - it is used by 90% of software engineers worldwide and is the de facto standard for version control. Honing your Git skills is guaranteed to make you a better and more efficient developer. Building software can be stressful, but it doesn't need to be. Practical Git will give you the Git skills you need, and help keep your Git skills sharp. Add it to your library today. What You'll Learn Use Git through scripted exercises and the Git katas Understand Git's graph model Troubleshoot common and rare scenarios you may face Select and apply the right Git tool for the task Maintain and collaborate on Git repositories Tweak Git to gain the most from this powerful tool Who This Book Is For Anyone who is currently using Git in a copy-paste fashion. It will take you from using Git to knowing Git.

Domain-Driven Design Quickly *Lulu.com*

Domain Driven Design is a vision and approach for dealing with highly complex domains that is based on making the domain itself the main focus of the project, and maintaining a software model that reflects a deep understanding of the domain. This book is a short, quickly-readable summary and introduction to the fundamentals of DDD; it does not introduce any new concepts; it attempts to concisely summarize the essence of what DDD is, drawing mostly Eric Evans' original book, as well other sources since published such as Jimmy Nilsson's Applying Domain Driven Design, and various DDD discussion forums. The main topics covered in the book include: Building Domain Knowledge, The Ubiquitous Language, Model Driven Design, Refactoring Toward Deeper Insight, and Preserving Model Integrity. Also included is

an interview with Eric Evans on Domain Driven Design today.

Ansible: Up and Running

Automating Configuration Management and Deployment the Easy Way *O'Reilly Media, Inc.*

Among the many configuration management tools available, Ansible has some distinct advantages—it's minimal in nature, you don't need to install anything on your nodes, and it has an easy learning curve. This practical guide shows you how to be productive with this tool quickly, whether you're a developer deploying code to production or a system administrator looking for a better automation solution. Author Lorin Hochstein shows you how to write playbooks (Ansible's configuration management scripts), manage remote servers, and explore the tool's real power: built-in declarative modules. You'll discover that Ansible has the functionality you need and the simplicity you desire. Understand how Ansible differs from other configuration management systems Use the YAML file format to write your own playbooks Learn Ansible's support for variables and facts Work with a complete example to deploy a non-trivial application Use roles to simplify and reuse playbooks Make playbooks run faster with ssh multiplexing, pipelining, and parallelism Deploy applications to Amazon EC2 and other cloud platforms Use Ansible to create Docker images and deploy Docker containers

SSH, The Secure Shell

The Definitive Guide *O'Reilly Media, Inc.*

Are you serious about network security? Then check out SSH, the Secure Shell, which provides key-based authentication and transparent encryption for your network connections. It's reliable, robust, and reasonably easy to use, and both free and commercial implementations are widely available for most operating systems. While it doesn't solve every privacy and security problem, SSH eliminates several of them very effectively. Everything you want to know about SSH is in our second edition of SSH, The Secure Shell: The Definitive Guide. This updated book thoroughly covers the latest SSH-2 protocol for system administrators and end users interested in using this increasingly popular TCP/IP-based solution. How does it work? Whenever data is sent to the network, SSH automatically encrypts it. When data reaches its intended recipient, SSH decrypts it. The result is "transparent" encryption—users can work normally, unaware that their communications are already encrypted. SSH supports secure file transfer between computers, secure remote logins, and a unique "tunneling" capability that adds encryption to otherwise insecure network applications. With SSH, users can freely navigate the Internet, and system administrators can secure their networks or perform remote administration. Written for a wide, technical audience, SSH, The Secure Shell: The Definitive Guide covers several implementations of SSH for different operating systems and computing environments. Whether you're an individual running Linux machines at home, a corporate network administrator with thousands of users, or a PC/Mac owner who just wants a secure way to telnet or transfer files between machines, our indispensable guide has you covered. It starts with simple installation and use of SSH, and works its way to in-depth case studies on large, sensitive computer networks. No matter where or how you're shipping information, SSH, The Secure Shell: The Definitive Guide will show you how to do it securely.

HTTP

The Definitive Guide *"O'Reilly Media, Inc."* optimizing proxies, designing web crawlers, content negotiation,
Covers topics including HTTP methods and status codes, and load-balancing strategies.