

Software Version Control

**Ferdinando Santacroce,Aske Olsson,Rasmus
Voss,Jakub Narebski**

Version Control with Git Jon Loeliger,Matthew

McCullough,2012-08-14 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 though GitHub

An Abstraction for Version Control Systems Matthias

Kleine,Robert Hirschfeld,Gilad Bracha,2012 Version Control Systems (VCS) allow developers to manage changes to software artifacts. Developers interact with VCSs through a variety of client programs, such as graphical front-ends or command line tools. It is desirable to use the same version control client program against different VCSs. Unfortunately, no established abstraction over VCS concepts exists. Instead, VCS client programs implement ad-hoc solutions to support interaction with multiple VCSs. This thesis presents Pur, an abstraction over version control concepts that allows building rich client programs that can interact with multiple VCSs. We provide an implementation of this abstraction and

validate it by implementing a client application.

Version Control by Example Eric Sink,2011-01-01

Subversion 1.6 Official Guide Ben Collins-Sussman,Brian W. Fitzpatrick,C. Michael Pilato,2009-10 This is the official guide and reference manual for Subversion 1.6 - the popular open source revision control technology.

Building Software Teams Joost Visser,Sylvan Rigal,Gijs Wijnholds,Zeeger Lubsen,2016-12-12 Why does poor software quality continue to plague enterprises of all sizes in all industries? Part of the problem lies with the process, rather than individual developers. This practical guide provides ten best practices to help team leaders create an effective working environment through key adjustments to their process. As a follow-up to their popular book, Building Maintainable Software, consultants with the Software Improvement Group (SIG) offer critical lessons based on their assessment of development processes used by hundreds of software teams. Each practice includes examples of goalsetting to help you choose the right metrics for your team. Achieve development goals by determining meaningful metrics with the Goal-Question-Metric approach Translate those goals to a verifiable Definition of Done Manage code versions for consistent and predictable modification Control separate environments for each stage in the development pipeline Automate tests as much as possible and steer their guidelines and expectations Let the Continuous Integration server do much of the hard work for you Automate the process of pushing code through the pipeline Define development process standards to improve consistency and simplicity Manage dependencies on third party code to keep your software consistent and up to date Document only the most necessary and current knowledge

Head First Software Development Dan Pilone,Russ

Miles,2008-12-26 Provides information on successful software development, covering such topics as customer requirements, task estimates, principles of good design, dealing with source code,

system testing, and handling bugs.

Subversion Version Control William Nagel, 2005 In any software development project, many developers contribute changes over a period of time. Using a version control system to track and manage these changes is vital to the continued success of the project. This book introduces you to Subversion, a free, open-source version control system, which is both more powerful and much less complex than its predecessor CVS. In this practical, hands-on guide, you will learn how to use Subversion and how to effectively merge a version control system within your development process. As a seasoned Subversion user, William Nagel draws on lessons learned through trial and error, providing useful tips for accomplishing tasks that arise in day-to-day software development. Nagel clearly explains how to expand on the built-in abilities of Subversion, making the system work better for you. He organizes Subversion commands by activity to allow for quick task reference. Using example scripts and configurations, he also includes development approaches that you can customize to fit your own environment. Inside, you will find A guide to installing Subversion on Linux, Windows, and Mac OS X. A tutorial walkthrough of Subversion, from creating your first repository to basic branching and merging. A detailed look at the most important Subversion client commands, as well as properties, user configuration, and integration with a variety of external tools. A guide to repository administration and organization, including repository security and migration from another version control system. An in-depth look at automation in Subversion, including using hook scripts, metadata, and the Subversion API, plus example scripts. Case studies that examine both archetypal and real-world projects and their use of Subversion. A Subversion command reference for fast access to essential technical information. Details on Subversion's many advanced features, such as its Apache-integrated WebDAV server and database file storage system. Whether you are an administrator, project

manager, or software developer, Subversion Version Control will show you how to realize the full potential of Subversion.

Mercurial: The Definitive Guide Bryan

O'Sullivan, 2009-06-16 This instructive book takes you step by step through ways to track, merge, and manage both open source and commercial software projects with Mercurial, using Windows, Mac OS X, Linux, Solaris, and other systems. Mercurial is the easiest system to learn when it comes to distributed revision control. And it's a very flexible tool that's ideal whether you're a lone programmer working on a small project, or part of a huge team dealing with thousands of files. Mercurial permits a countless variety of development and collaboration methods, and this book offers several concrete suggestions to get you started. This guide will help you: Learn the basics of working with a repository, changesets, and revisions Merge changes from separate repositories Set up Mercurial to work with files on a daily basis, including which ones to track Get examples and tools for setting up various workflow models Manage a project that's making progress on multiple fronts at once Find and fix mistakes by isolating problem sources Use hooks to perform actions automatically in response to repository events Customize the output of Mercurial Mercurial: The Definitive Guide maintains a strong focus on simplicity to help you learn Mercurial quickly and thoroughly.

Pragmatic Version Control Using Git Travis

Swicegood, 2008-12-28 There's a change in the air. High-profile projects such as the Linux Kernel, Mozilla, Gnome, and Ruby on Rails are now using Distributed Version Control Systems (DVCS) instead of the old stand-bys of CVS or Subversion. Git is a modern, fast, DVCS. But understanding how it fits into your development can be a daunting task without an introduction to the new concepts. Whether you're just starting out as a professional programmer or are an old hand, this book will get you started using Git in this new distributed world.

Git in Practice Mike McQuaid, 2014-09-29 Summary Git in Practice is a collection of 66 tested techniques that will optimize the way you and your team manage your development projects. The book begins with a brief reminder of the core version control concepts you need when using Git and moves on to the high-value features you may not have explored yet. Then, you'll dig into cookbook-style techniques like history visualization, advanced branching and rewriting history each presented in a problem-solution-discussion format. Finally you'll work out how to use Git to its full potential through configuration, team workflows, submodules and using GitHub pull requests effectively. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Git is a source control system, but it's a lot more than just that. For teams working in today's agile, continuous delivery environments, Git is a strategic advantage. Built with a decentralized structure that's perfect for a distributed team, Git manages branching, committing, complex merges, and task switching with minimal ceremony so you can concentrate on your code. About the Book *Git in Practice* is a collection of battle-tested techniques designed to optimize the way you and your team manage development projects. After a brief overview of Git's core features, this practical guide moves quickly to high-value topics like history visualization, advanced branching and rewriting, optimized configuration, team workflows, submodules, and how to use GitHub pull requests. Written in an easy-to-follow Problem/Solution/Discussion format with numerous diagrams and examples, it skips the theory and gets right to the nitty-gritty tasks that will transform the way you work. Written for developers familiar with version control and ready for the good stuff in Git. What's Inside Team interaction strategies and techniques Replacing bad habits with good practices Juggling complex configurations Rewriting history and disaster recovery About the Author Mike McQuaid is a software engineer at GitHub. He's contributed to Qt and the Linux kernel,

and he maintains the Git-based Homebrew project. Table of Contents PART 1 INTRODUCTION TO GIT Local Git Remote Git PART 2 GIT ESSENTIALS Filesystem interactions History visualization Advanced branching Rewriting history and disaster recovery PART 3 ADVANCED GIT Personalizing Git Vendoring dependencies as submodules Working with Subversion GitHub pull requests Hosting a repository PART 4 GIT BEST PRACTICES Creating a clean history Merging vs. rebasing Recommended team workflows

Modern Programming Made Easy Adam L.

Davis,2020-01-17 Get up and running fast with the basics of programming using Java as an example language. This short book gets you thinking like a programmer in an easy and entertaining way. Modern Programming Made Easy teaches you basic coding principles, including working with lists, sets, arrays, and maps; coding in the object-oriented style; and writing a web application. This book is largely language agnostic, but mainly covers the latest appropriate and relevant release of Java, with some updated references to Groovy, Scala, and JavaScript to give you a broad range of examples to consider. You will get a taste of what modern programming has to offer and set yourself up for further study and growth in your chosen language. What You'll Learn Write code using the functional programming style Build your code using the latest releases of Java, Groovy, and more Test your code Read and write from files Design user interfaces Deploy your app in the cloud Who This Book Is For Anyone who wants to learn how to code. Whether you're a student, a teacher, looking for a career change, or just a hobbyist, this book is made for you.

Version Control with Subversion Brian Fitzpatrick,Michael

Pilato,Ben Collins-Sussman,2017-11-22 In the world of open source software, the Concurrent Versions System (CVS) was the tool of choice for version control for many years. And rightly so. CVS was open source software itself, and its nonrestrictive modus operandi and support for networked operation allowed dozens of geographically dispersed programmers to share their work. It fit

the collaborative nature of the open source world very well. CVS and its semi-chaotic development model have since become cornerstones of open source culture. But CVS was not without its flaws, and simply fixing those flaws promised to be an enormous effort. Enter Subversion. Subversion was designed to be a successor to CVS, and its originators set out to win the hearts of CVS users in two ways, by creating an open source system with a design (and look and feel) similar to CVS, and by attempting to avoid most of CVS's noticeable flaws. While the result wasn't and isn't the next great evolution in version control design, Subversion is very powerful, very usable, and very flexible.

Pro Git Scott Chacon, Ben Straub, 2014-11-18 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: Mastering Version Control Ferdinando

Santacroce, Aske Olsson, Rasmus Voss, Jakub Narebski, 2016-10-25 Learn everything you need to take full control of your workflow with Git with this curated Learning Path – dive in and transform the way you work About This Book Master all the basic concepts of Git to protect your code and make it easier to evolve Filled with practical recipes that will teach you how to use the most advanced features of the Git system Harness the full power of the Git version

control system to customize Git behavior, manipulate history, integrate external tools, and explore platform shortcuts

Who This Book Is For This learning path is for software developers who want to become proficient at using the Git version control system. A basic understanding of any version control system would be beneficial.

What You Will Learn Transport your work to a remote repository in a centralized manner Experiment with your code without affecting functional code files Explore some tools used to migrate to Git from other versioning systems without losing your development history Understand the Git data model and how you can navigate the database with simple commands Debug with Git and use various techniques to find faulty commits Customize Git behavior system-wide, on a per-user, per-repository, and per-file basis Master administering and setting up Git repositories, configuring access, finding and recovering from repository errors, and performing repository maintenance Chose a workflow and configure/set up support for the chosen workflow

In Detail Git is one of the most popular types of Distributed Version Control System. Since its inception, it has attracted skilled developers due to its robust, powerful, and reliable features. Like most powerful tools, Git can be hard to approach for the newcomers. However, this learning path will help you overcome this fear and become adept at all the basic and advanced tasks in Git. This course starts with an introduction to version control systems before you delve deeply into the essentials of Git. This serves as a primer for the topics to follow such as branching and merging, creating and managing a GitHub personal repository, and fork and pull requests. You'll also learn how to migrate from SVN using Git tools or TortoiseGit and migrate from other VCSs, concluding with a collection of resources, links, and appendices. As you progress on to the next module, you will learn how you can automate the usual Git processes by utilizing the hook system built into Git. It also covers advanced repository management, including different options to rewrite the history of a Git repository before you

discover how you can work offline with Git, how to track what is going on behind the scenes, and how to use the stash for different purposes. Moving forward, you will gain deeper insights into Git's architecture, its underlying concepts, behavior, and best practices. It gives a quick implementation example of using Git for a collaborative development of a sample project to establish the foundation knowledge of Git operational tasks and concepts. By exploring advanced Git practices, you will attain a deeper understanding of Git's behavior, allowing you to customize and extend existing recipes and write your own. This Learning Path is a blend of content, all packaged up keeping your journey in mind. It includes content from the following Packt products: Git Essentials, Ferdinando Santacroce Git Version Control Cookbook, Aske Olsson and Rasmus Voss Mastering Git, Jakub Narebski Style and approach Its step-by-step approach with useful information makes this course the ultimate guide to understanding and mastering Git. This course will show the road to mastery example by example, while also explaining the mental model of Git.

Essential CVS Jennifer Vesperman, 2003 CVS, the Concurrent Versions System, is the popular source-code management tool that frees developers from the chaos that too often ensues when multiple users work on the same file. An open source technology that is available on most computer platforms, including Windows(r) and Mac OS(r) X, CVS is widely used to manage program code, web site content, and to track changes made to system configuration files. Multiple users can check out files from a directory tree, make changes, and then commit those changes back into the directory. If two developers modify the same file, CVS enables both sets of changes to be merged together into one final file. Although CVS is a lifesaver in many development scenarios, it suffers from poor documentation. But with Essential CVS, developers can have it all: the order that CVS brings and the comprehensive documentation developers need. Essential CVS is a complete and easy-to-follow reference that helps programmers

and system administrators apply order to the task of managing large quantities of documents. The book covers basic concepts and usage of CVS, and features a comprehensive reference for CVS commands—including a handy Command Reference Card for quick, on-the-job checks. The book also includes advanced information on all aspects of CVS that involve automation, logging, branching and merging, and watches. Readers will find in-depth coverage of the following: Installing CVS and building your first repository Basic use of CVS, including importing projects, checking out projects, committing changes, and updating projects Tagging, branching and merging Working with multiple users Clients, operating systems, and IDEs Repository management and managing remote repositories Project administration, including bug tracking systems, enforcing log messages, history and annotation, and more. Troubleshooting Version control is essential to maintaining order in any project, large or small. Any CVS user, from beginners to team leaders and system administrators, will find this practical guide to CVS indispensable in getting the most from this valuable tool.

Git Version Control Cookbook Aske Olsson, Rasmus

Voss, 2014-07-24 This practical guide contains a wide variety of recipes, taking you through all the topics you need to know about to fully utilize the most advanced features of the Git system. If you are a software developer or a build and release engineer who uses Git in your daily work and want to take your Git knowledge to the next level, then this book is for you. To understand and follow the recipes included in this book, basic knowledge of Git command-line code is mandatory.

Version Control Dexter Palmer, 2017-01-10 Although Rebecca Wright has pieced her life back together after a major tragedy, she can't shake a sense that the world around her feels off-kilter. Meanwhile, her husband's dedication to his invention, "the causality violation device" (which he would greatly prefer you not call a time machine) has effectively stalled his career—but he may

be closer to success than either of them can possibly imagine. Emotionally powerful and wickedly intelligent, Version Control is a stunningly prescient novel about the effects of science and technology on our lives, our friendships, and our sense of self that will alter the way you see the future—and the present.

Git Pocket Guide Richard E. Silverman, 2013-06-25 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

Towards version control in object-based systems Jakob Reschke, Marcel Taeumel, Tobias Pape, Fabio Niephaus, Robert Hirschfeld, 2018 Version control is a widely used practice among software developers. It reduces the risk of changing their software and allows them to manage different configurations and to collaborate with others more efficiently. This is amplified by code sharing platforms such as GitHub or Bitbucket. Most version control systems track files (e.g., Git, Mercurial, and Subversion do), but some programming environments do not operate on files, but on objects instead (many Smalltalk implementations do). Users of such environments want to use version control for their objects anyway. Specialized version control systems, such as the ones available for Smalltalk systems (e.g., ENVY/Developer and

Monticello), focus on a small subset of objects that can be versioned. Most of these systems concentrate on the tracking of methods, classes, and configurations of these. Other user-defined and user-built objects are either not eligible for version control at all, tracking them involves complicated workarounds, or a fixed, domain-unspecific serialization format is used that does not equally suit all kinds of objects. Moreover, these version control systems that are specific to a programming environment require their own code sharing platforms; popular, well-established platforms for file-based version control systems cannot be used or adapter solutions need to be implemented and maintained. To improve the situation for version control of arbitrary objects, a framework for tracking, converting, and storing of objects is presented in this report. It allows editions of objects to be stored in an exchangeable, existing backend version control system. The platforms of the backend version control system can thus be reused. Users and objects have control over how objects are captured for the purpose of version control. Domain-specific requirements can be implemented. The storage format (i.e. the file format, when file-based backend version control systems are used) can also vary from one object to another. Different editions of objects can be compared and sets of changes can be applied to graphs of objects. A generic way for capturing and restoring that supports most kinds of objects is described. It models each object as a collection of slots. Thus, users can begin to track their objects without first having to implement version control supplements for their own kinds of objects. The proposed architecture is evaluated using a prototype implementation that can be used to track objects in Squeak/Smalltalk with Git. The prototype improves the suboptimal standing of user objects with respect to version control described above and also simplifies some version control tasks for classes and methods as well. It also raises new problems, which are discussed in this report as well.

Learn Version Control with Git Tobias Günther, 2017-02-28

You won't find a top programmer, web developer, or web designer who doesn't use version control. Because it helps you produce better results and makes collaboration easy. Git is one of those version control systems - but not just any: Top projects like the Linux Kernel, Ruby On Rails, or jQuery use Git as their version control system of choice. Around the world, in teams large and small, Git is an essential part of the tool chain. Learn Version Control with Git is a beginner-friendly step-by-step course. The book doesn't require a deep technical background. Instead, it's aimed at beginners of version control and/or programming, designers, and project managers. Basic topics - from installing Git to a Command Line 101 - are covered, not expected. While learning all the key features such as Branching and Merging, the book will also explain advanced topics as well as tools and services. Accompanying charts & graphics make it easy to understand even complex facts and workflows. Version control is an essential tool if you want to be successful in today's web & software world. This book will help you master it with ease. What People Say About Learn Version Control with Git At ownCloud, we use Git every day. This course helps everyone learn Git's key features - and be super productive with version control. - Frank Karlitschek, CTO, ownCloud I love how this book guides you in a way that doesn't require a PhD in computer science - and yet makes you feel like a pro in the end. - Bastian Allgeier, creator of the popular Kirby CMS Finally a beginner-friendly introduction to version control with Git. Highly recommended! - Holger Spielberg, Head of Mobile Payments, PayPal.de

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