



Git Essentials

By Ferdinando Santacroce

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Git Essentials By Ferdinando Santacroce

Create, merge, and distribute code with Git, the most powerful and flexible versioning system available

About This Book

- Master all the basic concepts of Git to protect your code and make it easier to evolve
- Use Git proficiently, and learn how to resolve day-by-day tasks easily
- A step-by-step guide, packed with examples to help you learn and work with Git internals

Who This Book Is For

If you are a software developer with little or no experience of versioning systems, or are familiar with other centralized versioning systems, then this book is for you. If you have some experience working with command lines or using Linux admin or just using Unix and want to know more about Git, then this book is ideal for you.

What You Will Learn

- Create, branch, and merge a local repository
- Transport your work to a remote repository working in a centralized manner
- Organize your source code using feature branches
- Organize the development flow
- Get a meaningful changelog using clear commit messages
- Collaborate with teammates without any impediments
- 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
- Extend your knowledge of Git with some useful resources

In Detail

Since its inception, Git has attracted skilled developers due to its robust, powerful, and reliable features. Its incredibly fast branching ability transformed a piece of code from a niche tool for former Linux Kernel developers into a mainstream distributed versioning system. Like most powerful tools, Git can be hard to approach since it has a lot of commands, subcommands, and options that easily confuse newcomers. The main purpose of Git Essentials is to help you overcome this fear and become adept at all basic tasks in Git. This book starts with an introduction to version control systems, and after this you'll 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 will then learn the art of cherry-picking, taking only commits you like, followed by Git blame. Finally, you'll 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.

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Editorial Review

About the Author

Ferdinando Santacroce

Ferdinando Santacroce is a developer, author, and teacher who loves learning new things. As a software developer, Ferdinando mainly works on the .NET platform using C#, which bridges the gaps between oldstyle systems and new technologies. Over the span of his career, he has allowed COBOL applications to talk with remote services, databases, and electronic devices, such as cash handlers, scanners, and electronic shelf labels. At the moment, he's focusing on continuously improving the Agile Movement, which he follows with great care, in conjunction with XP foundations and lean manufacturing. While working as a teacher, he developed the first web-based school register in a school of his district, which allowed parents to take a look at grades and absences on a regular basis. Ferdinando loves to teach people, everyone from children to grandpas, and introduces them to the use of computers, the Internet, and new mobile devices. He enjoys writing too; after a hiatus of a few years, he started blogging again about his work and passions, which, according to him, is more or less the same thing. Most of what he's learned over the years has been with the help of his friends and colleagues. This has encouraged him to read books and attend inspiring conferences, such as XP Conference, Italian Agile Day, Codemotion, and others, that help his growth by working on the same code with him.

Users Review

From reader reviews:

Mark Spears:

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Catherine Branch:

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