



# Mastering Git

*Jakub Narebski*

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**Mastering Git** Jakub Narebski

**Attain expert-level proficiency with Git for enhanced productivity and efficient collaboration by mastering advanced distributed version control features**

## About This Book

- Set up Git for solo and collaborative development
- Harness the full power of Git version control system to customize Git behavior, manipulate history, integrate external tools and explore platform shortcuts
- A detailed guide, which explains how to apply advanced Git techniques and workflows and ways to handle submodules

## Who This Book Is For

If you are a Git user with reasonable knowledge of Git and familiarity with basic concepts such as branching, merging, staging, and workflows, this is the book for you. Basic knowledge of installing Git and software configuration management concepts is essential.

## What You Will Learn

- Explore project history, find revisions using different criteria, and filter and format how history looks
- Manage your working directory and staging area for commits and interactively create new revisions and amend them
- Set up repositories and branches for collaboration
- Submit your own contributions and integrate contributions from other developers via merging or rebasing
- Customize Git behavior system-wide, on a per-user, per-repository, and per-file basis
- Take up the administration and set up of Git repositories, configure access, find and recover from repository errors, and perform repository maintenance
- Choose a workflow and configure and set up support for the chosen workflow

## In Detail

Git is one of the most popular types of Source Code Management (SCM) and Distributed Version Control System (DVCS). Despite the powerful and versatile nature of the tool enveloping strong support for nonlinear development and the ability to handle large projects efficiently, it is a complex tool and often regarded as “user-unfriendly”. Getting to know the ideas and concepts behind the architecture of Git will help you make full use of its power and understand its behavior. Learning the best practices and recommended workflows should help you to avoid problems and ensure trouble-free development.

The book scope is meticulously designed to help you gain deeper insights into Git's architecture, its underlying concepts, behavior, and best practices. Mastering Git starts with 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. Furthermore, as you progress through the book, the tutorials provide detailed descriptions of various areas of usage: from archaeology, through managing your own work, to working with other developers. This book also helps augment your understanding to examine and explore project history, create and manage your contributions, set up repositories and branches for collaboration in centralized and distributed version control, integrate work from other developers, customize and extend Git, and recover from repository errors. 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.

## Style and approach

Step-by-step instructions and useful information make this book the ultimate guide to understanding and mastering Git. This book will show road to mastery example by example, while explaining mental model of Git. The Introduction section covers the 'Essentials' just for refreshing the basics. The main highlight is that the concepts are based on HOW the technology/framework works and not just practical 'WHAT to do'.

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