

Extracted from:

Pragmatic Guide to Git

This PDF file contains pages extracted from *Pragmatic Guide to Git*, published by the Pragmatic Bookshelf. For more information or to purchase a paperback or PDF copy, please visit <http://www.pragprog.com>.

Note: This extract contains some colored text (particularly in code listing). This is available only in online versions of the books. The printed versions are black and white. Pagination might vary between the online and printer versions; the content is otherwise identical.

Copyright © 2010 The Pragmatic Programmers, LLC.

All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior consent of the publisher.

The Pragmatic Bookshelf

Dallas, Texas • Raleigh, North Carolina

The
Pragmatic
Programmers

Pragmatic Guide to Git

Travis Swicegood

Edited by Susannah Davidson Pfalzer





Many of the designations used by manufacturers and sellers to distinguish their products are claimed as trademarks. Where those designations appear in this book, and The Pragmatic Programmers, LLC was aware of a trademark claim, the designations have been printed in initial capital letters or in all capitals. The Pragmatic Starter Kit, The Pragmatic Programmer, Pragmatic Programming, Pragmatic Bookshelf, PragProg and the linking *g* device are trademarks of The Pragmatic Programmers, LLC.

Every precaution was taken in the preparation of this book. However, the publisher assumes no responsibility for errors or omissions, or for damages that may result from the use of information (including program listings) contained herein.

Our Pragmatic courses, workshops, and other products can help you and your team create better software and have more fun. For more information, as well as the latest Pragmatic titles, please visit us at <http://pragprog.com>.

The team that produced this book includes:

Susannah Davidson Pfalzer (editor)
Potomac Indexing, LLC (indexer)
Kim Wimpsett (copyeditor)
Steve Peter (typesetter)
Janet Furlow (producer)
Juliet Benda (rights)
Ellie Callahan (support)

Copyright © 2010 Pragmatic Programmers, LLC.
All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior consent of the publisher.

Printed in the United States of America.
ISBN-13: 978-1-934356-72-2
Printed on acid-free paper.
Book version: P3.0—January 2012

Contents

[Acknowledgments](#) ?

[Introduction](#) ?

Part I — Getting Started

[Task 1. Installing Git](#) ?

[Task 2. Configuring Git](#) ?

[Task 3. Creating a New Repository](#) ?

[Task 4. Creating a Local Copy of an Existing
Repository](#) ?

Part II — Working with Git

[Task 5. Seeing What Has Changed](#) ?

[Task 6. Staging Changes to Commit](#) ?

[Task 7. Committing Changes](#) ?

[Task 8. Ignoring Files](#) ?

[Task 9. Undoing Uncommitted Changes](#) ?

[Task 10. Moving Files in Git](#) ?

[Task 11. Deleting Files in Git](#) ?

[Task 12. Sharing Changes](#) ?

Part III — Organizing Your Repository with Branches and Tags

<u>Task 13. Creating and Switching Branches</u>	. . . ?
<u>Task 14. Viewing Branches</u>	. . . ?
<u>Task 15. Merging Commits Between Branches</u>	. . . ?
<u>Task 16. Rewriting History by Rebasing</u>	. . . ?
<u>Task 17. Deleting Branches</u>	. . . ?
<u>Task 18. Tagging Milestones</u>	. . . ?

Part IV — Working with a Team

<u>Task 19. Adding and Removing Remotes</u>	. . . ?
<u>Task 20. Retrieving Remote Changes</u>	. . . ?
<u>Task 21. Retrieving Remote Changes, Part II</u>	. . . ?
<u>Task 22. Sending Changes to Remotes</u>	. . . ?
<u>Task 23. Handling Remote Tags and Branches</u>	. . . ?

Part V — Branches and Merging Revisited

<u>Task 24. Handling Conflicts</u>	. . . ?
<u>Task 25. Handling Conflicts with a GUI</u>	. . . ?
<u>Task 26. Temporarily Hiding Changes</u>	. . . ?
<u>Task 27. Cherry-Picking Commits</u>	. . . ?
<u>Task 28. Controlling How You Replay Commits</u>	. . . ?
<u>Task 29. Moving Branches</u>	. . . ?

Part VI — Working with the Repository's History

<u>Task 30. Viewing the Log</u>	. . . ?
<u>Task 31. Filtering the Log Output</u>	. . . ?

<u>Task 32. Comparing Differences</u>	. . . . .	?
<u>Task 33. Generating Statistics About Changes</u>	. . . . .	?
<u>Task 34. Assigning Blame</u>	. . . . .	?

Part VII — Fixing Things

<u>Task 35. Fixing Commits</u>	. . . . .	?
<u>Task 36. Reverting Commits</u>	. . . . .	?
<u>Task 37. Resetting Staged Changes and Commits</u>	. . . . .	?
<u>Task 38. Erasing Commits</u>	. . . . .	?
<u>Task 39. Finding Bugs with bisect</u>	. . . . .	?
<u>Task 40. Retrieving “Lost” Commits</u>	. . . . .	?

Part VIII — Moving Beyond the Basics

<u>Task 41. Exporting Your Repository</u>	. . . . .	?
<u>Task 42. Doing Some Git Housekeeping</u>	. . . . .	?
<u>Task 43. Syncing with Subversion</u>	. . . . .	?
<u>Task 44. Initializing Bare Repositories</u>	. . . . .	?
A1. <u>Glossary</u>	. . . . .	?