

Introduction to GitHub for HL7

Matt Blackmon February, 2019



Intended Audience



This tutorial is appropriate for all HL7 members.

Who am I?



- Matt Blackmon
 - > The Sequoia Project, Testing Programs Engineer
 - King University, Adjunct Professor
- BS, MS, ThM, EIEIO
- HL7 FHIR proficient



- HL7 FHIR Foundation Founder
- HL7 Education Advisory Council
- Acknowledgements: Sources cited on relevant pages





Overly Pedantic Online Activity



Sharing is hard. So is waiting.



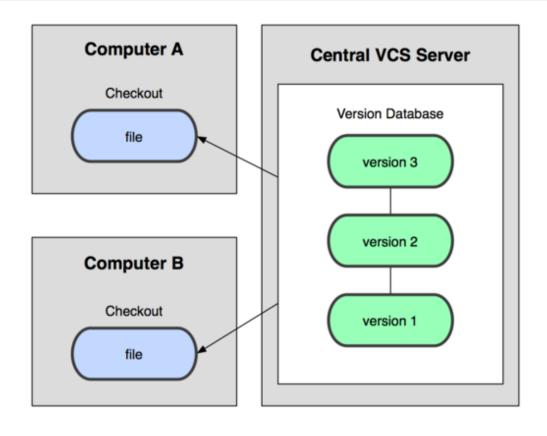
Learning Objectives

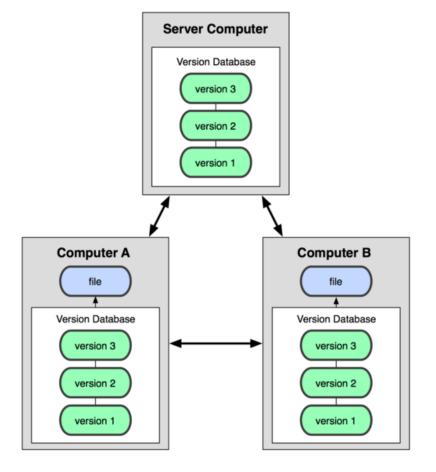


- 1. Understand the GitHub environment
- 2. Describe the role of GitHub in the HL7 FHIR specification
- Use the various browser tools related to GitHub to access the HL7 FHIR specification
- 4. Demonstrate the use of GitHub in accessing the HL7 FHIR codebase using browser-based tools
- 5. Identify and cringe at the horrible puns in this presentation

Software Version Control: Two ways







Source: https://git-scm.com/book/en/v2/Getting-Started-About-Version-Control

Git vs. GitHub





Source: https://jahya.net/blog/git-vs-github/

Software Version Control: Git

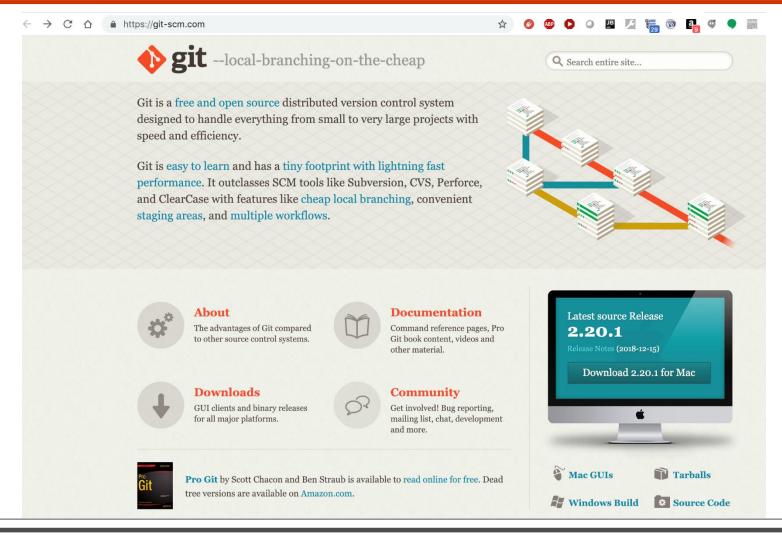




Source: https://en.wikipedia.org/wiki/Linus_Torvalds

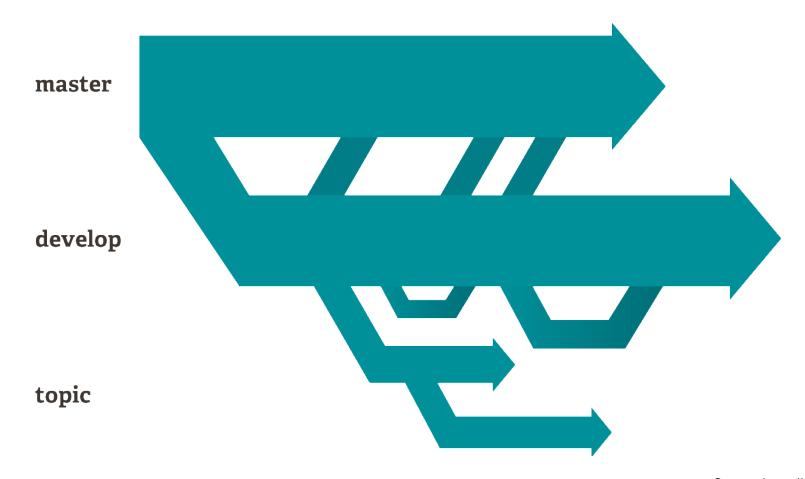
git





"Git" out of here: Environment





Source: https://git-scm.com/book/en/v2/Getting-Started-About-Version-Control

Git: Passing fad?



Companies & Projects Using Git





























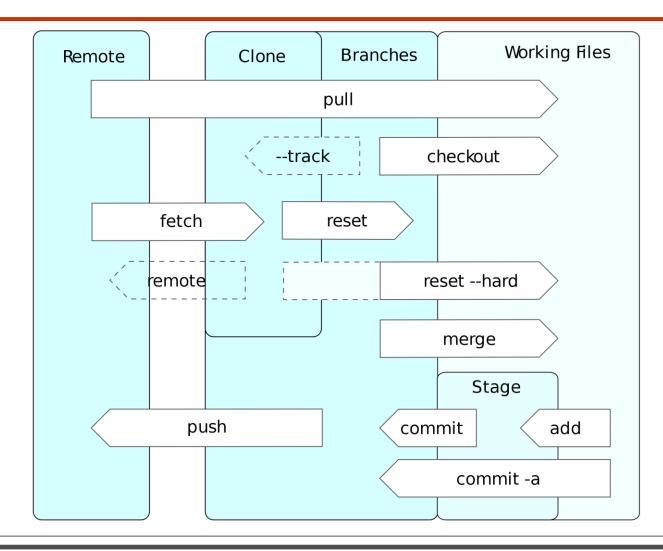




Source: https://git-scm.com/

The Git Lifecycle

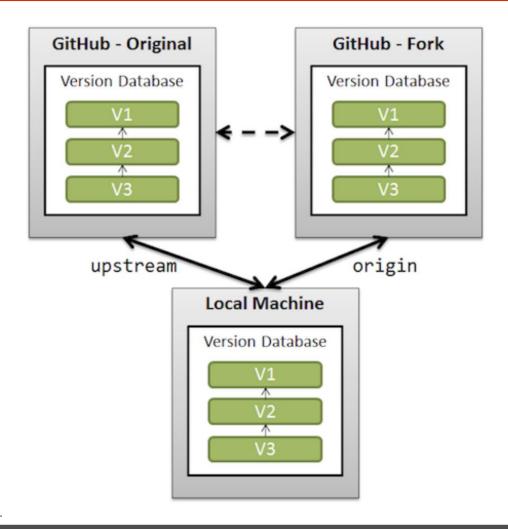




Source: https://en.wikipedia.org/wiki/Git

Branch vs Fork





Git: The Weeds



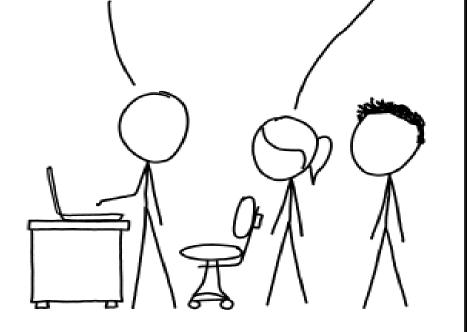
- Clone a repository (make a local copy)
- Modify the files (do some work)
- Stage files (snapshots of your changes ready to upload)
- Commit (send to the repository: requires privileges)



THIS IS GIT. IT TRACKS COLLABORATIVE WORK ON PROJECTS THROUGH A BEAUTIFUL DISTRIBUTED GRAPH THEORY TREE MODEL.

COOL. HOU DO WE USE IT?

NO IDEA. JUST MEMORIZE THESE SHELL COMMANDS AND TYPE THEM TO SYNC UP. IF YOU GET ERRORS, SAVE YOUR WORK ELSEWHERE, DELETE THE PROJECT, AND DOWNLOAD A FRESH COPY.





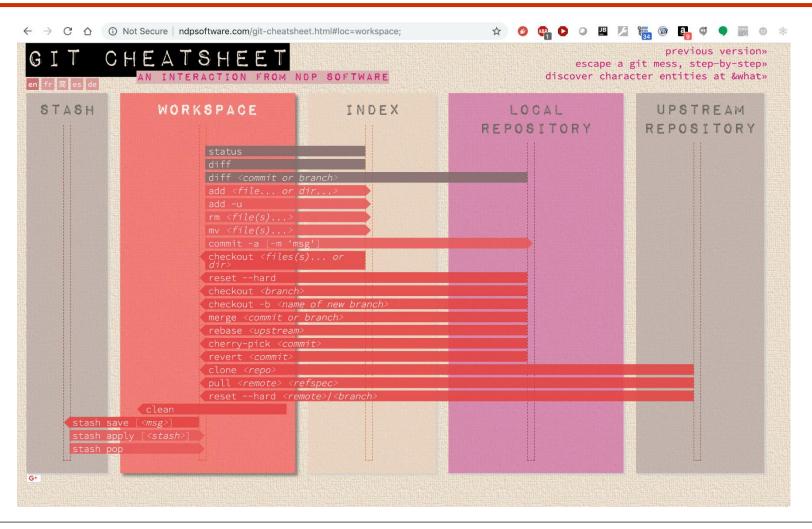
Git: The Cheatsheets



The official ones: https://services.github.com/on-demand/resources/cheatsheets/

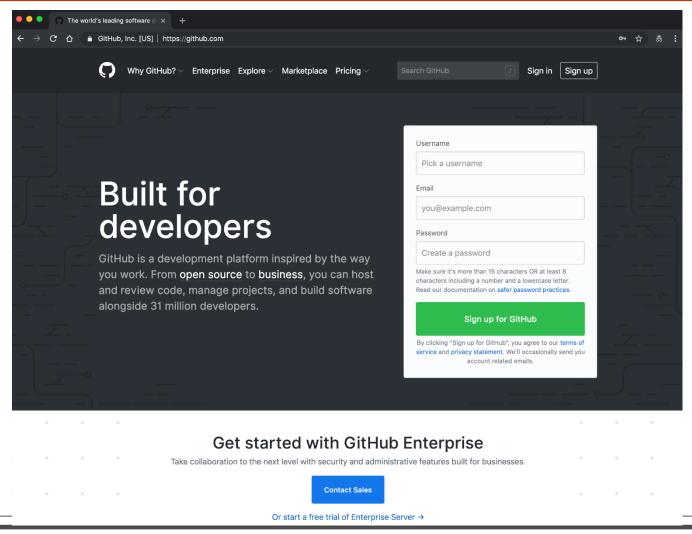
My favorite interactive one: http://ndpsoftware.com/git-cheatsheet.html#loc=index





Go github.com: Sign-up or sign in!





Utility Software



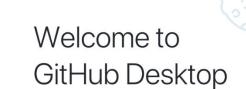
These items are merely information—not necessarily recommended. I have no stake in this information.

- The Official GitHub Desktop:
 - GitHub for Windows https://windows.github.com
 - GitHub for Mac https://mac.github.com
- SmartGit https://www.syntevo.com/smartgit/



GitHub Desktop





GitHub Desktop is a seamless way to contribute to projects on GitHub and GitHub Enterprise. Sign in below to get started with your existing projects.

New to GitHub? Create your free account.

Sign into GitHub.com

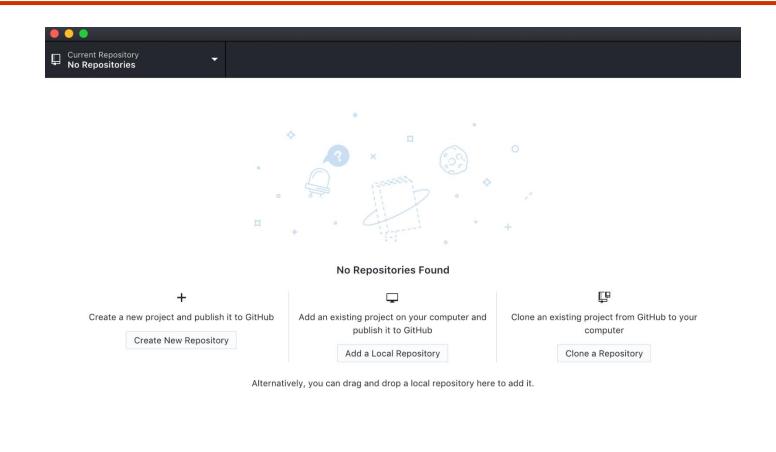
Sign into GitHub Enterprise

Skip this step



GitHub Desktop

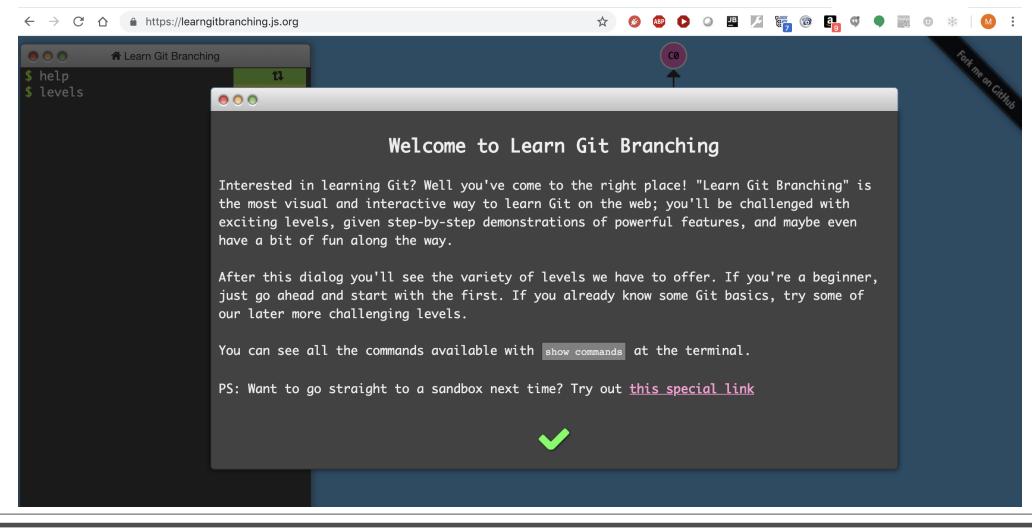




Online Tutorial:

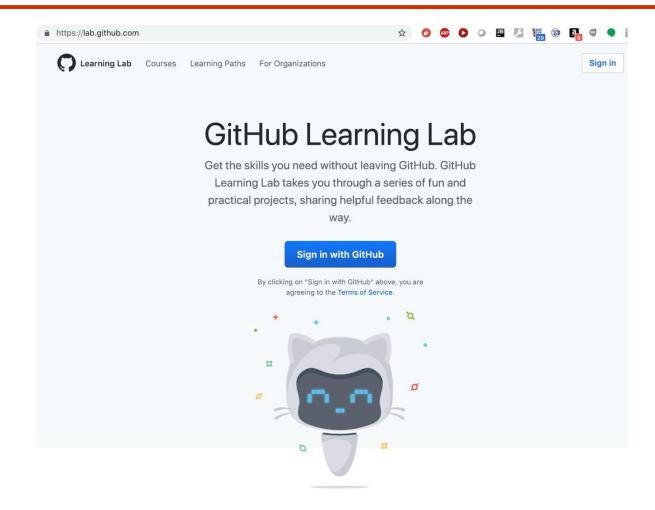
https://learngitbranching.js.org/





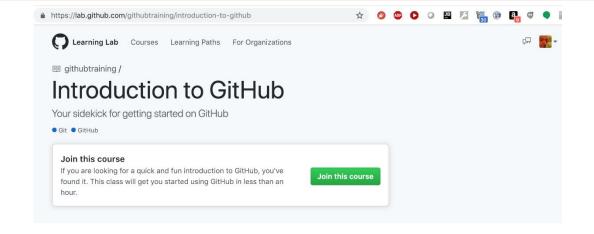
GitHub Learning Lab





Introduction to GitHub





People use GitHub to build some of the most advanced technologies in the world. Whether you're visualizing data or building a new game, there's a whole community and set of tools on GitHub that can help you do it even better.

Now, with GitHub Learning Lab, you've got a sidekick along your path to becoming an all-star developer.

From managing notifications to merging pull requests, GitHub Learning Lab's "Introduction to GitHub" course guides you through everything you need to start contributing in less than an hour. See a word you don't understand? We've included an emoji understand? We've included an emoji understand? We've included an emoji understand?

In this course, you'll learn how to:

- · Communicate in issues
- Manage notifications
- Create branches
- Make commits
- · Introduce changes with pull requests



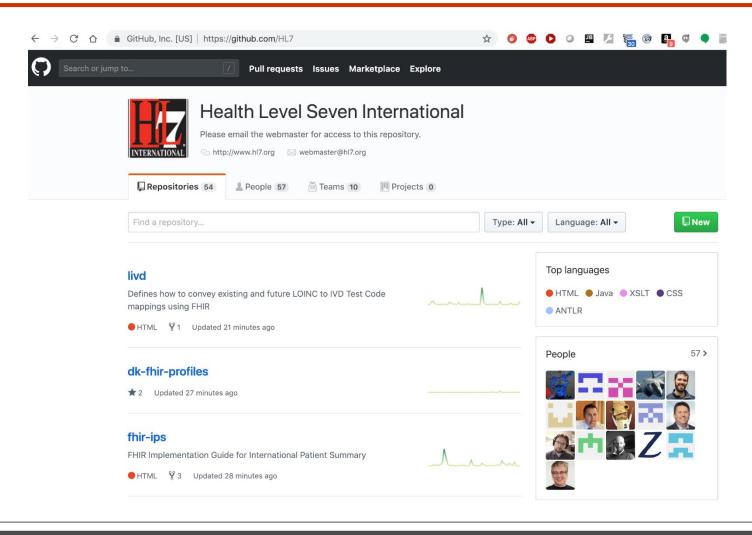
Hat tip: <a>@MoehrkeResearch





Git FHIRed Up

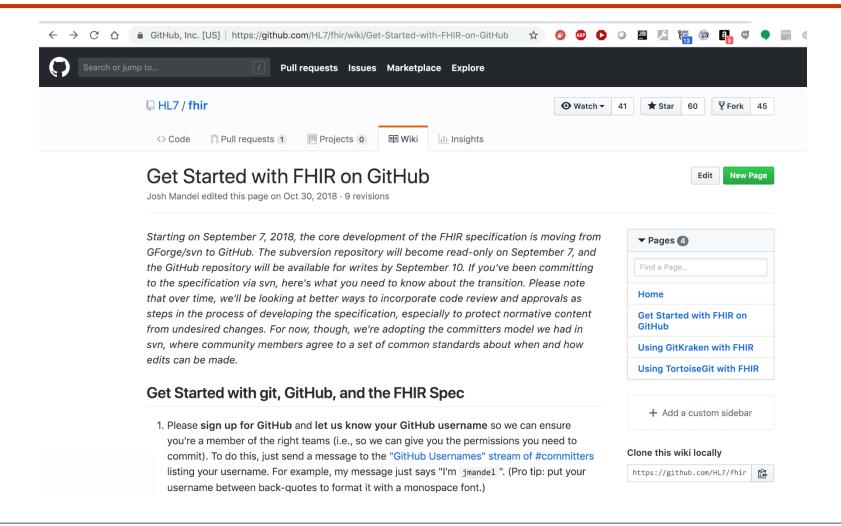




What next?

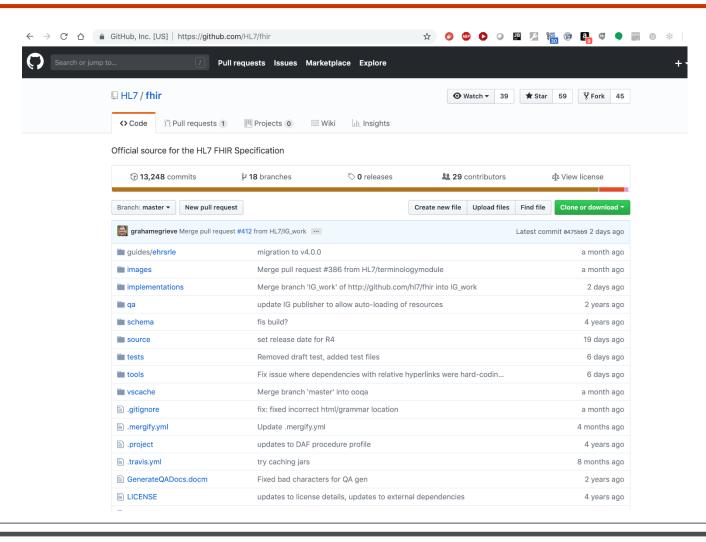
https://github.com/HL7/fhir/wiki/Get-Started-with-FHIR-on-GitHub





Git FHIRed Up

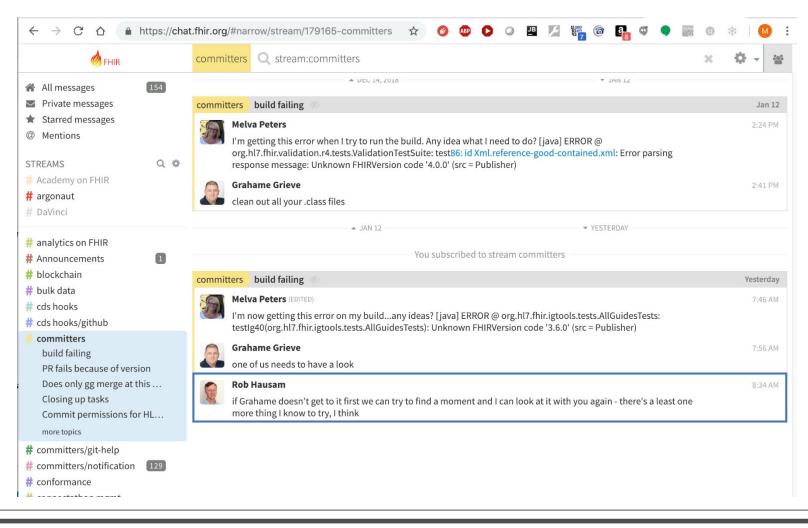




28

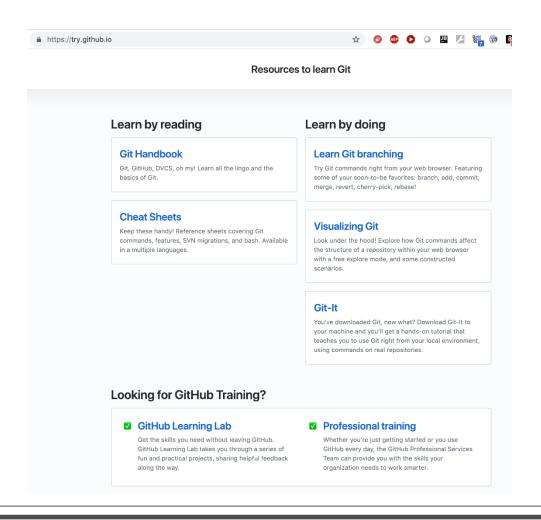
chat.fhir.org





"Git Going, Pardner" https://try.github.io/

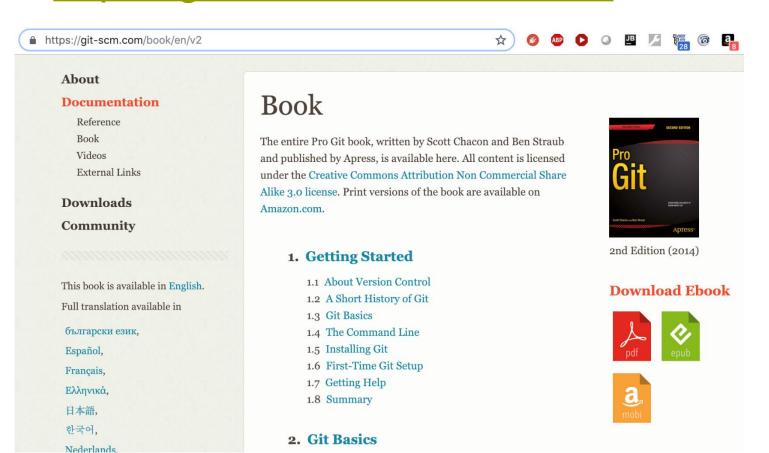


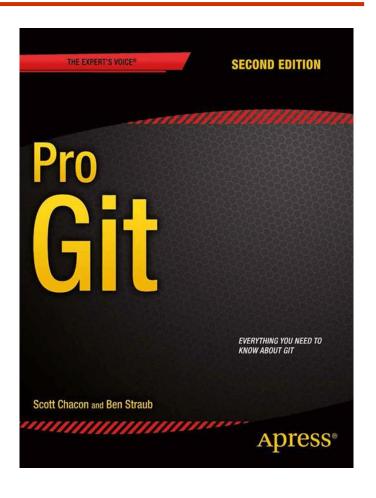


Pro Git, 2nd edition: FREE!



https://git-scm.com/book/en/v2





Questions?





Thank You!



Contact Information:

E-Mail: mblackmon@sequoiaproject.org

