



Aalto University
Media Factory

Digital_Fabrication_Studio.02

Version Control Systems – Git and GitHub

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11.09.2012



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Today:

- * Git
- * GitHub
- * Exercise



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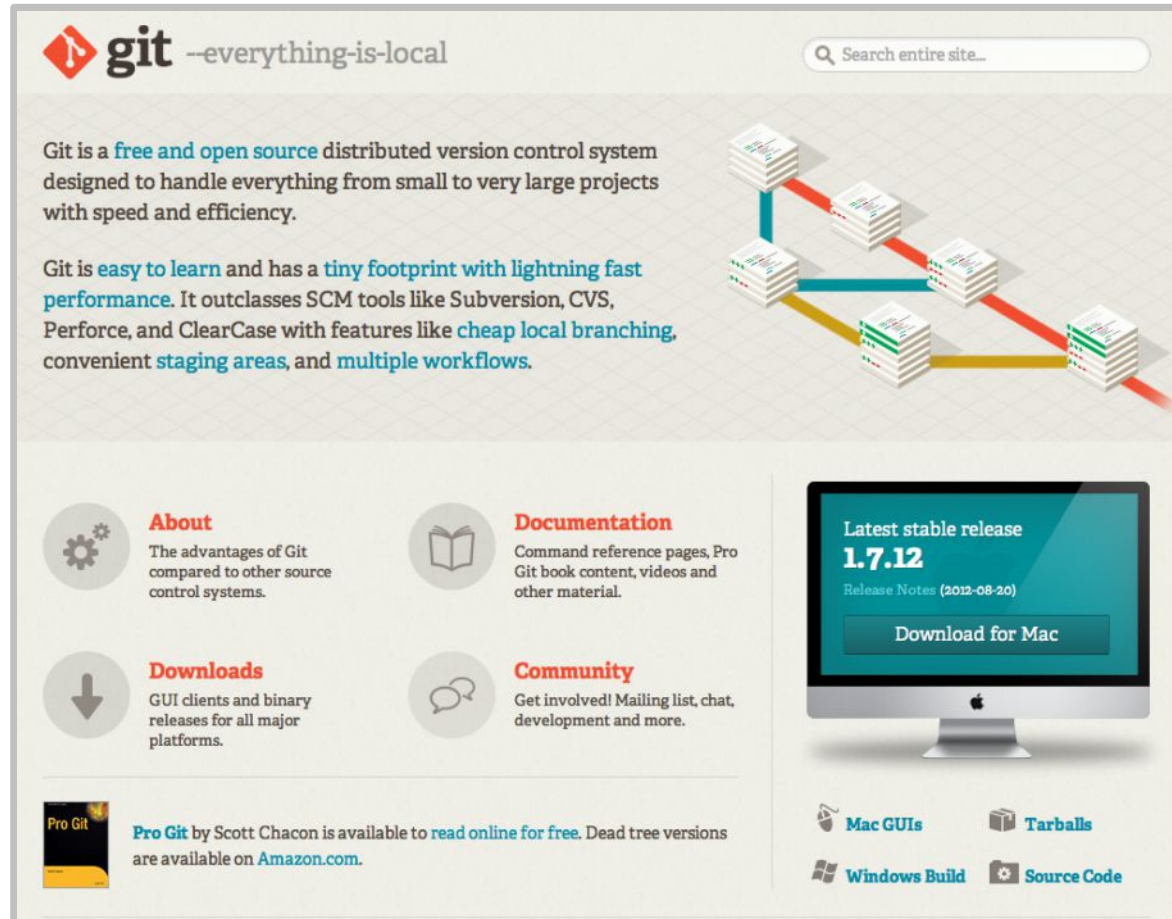
01.

Git – the distributed architectural engine



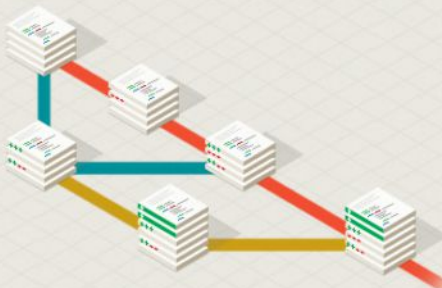
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Git: a distributed version control system

 **git** —everything-is-local

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.


Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.






About

The advantages of Git compared to other source control systems.




Documentation

Command reference pages, Pro Git book content, videos and other material.




Downloads

GUI clients and binary releases for all major platforms.




Community


Get involved! Mailing list, chat, development and more.





Pro Git by Scott Chacon is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).




Latest stable release
1.7.12
Release Notes (2012-08-20)
[Download for Mac](#)

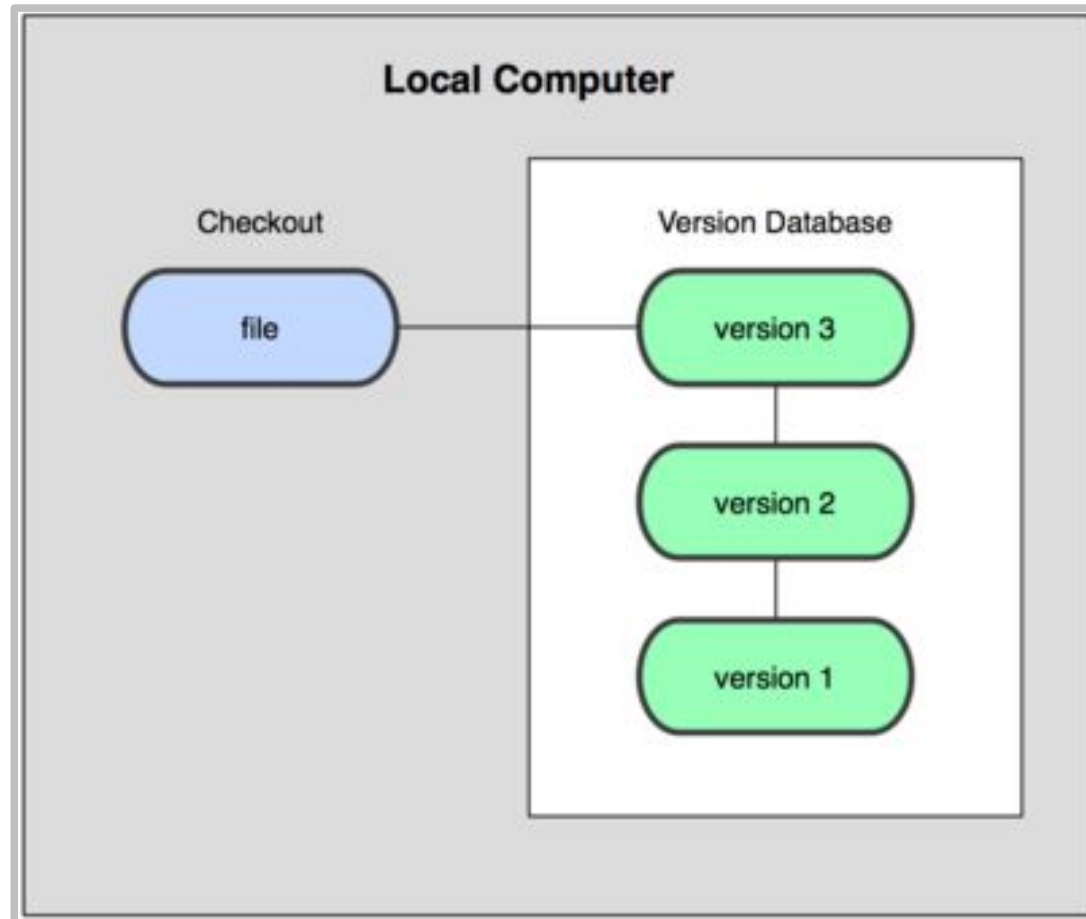
 [Mac GUIs](#)

 [Tarballs](#)

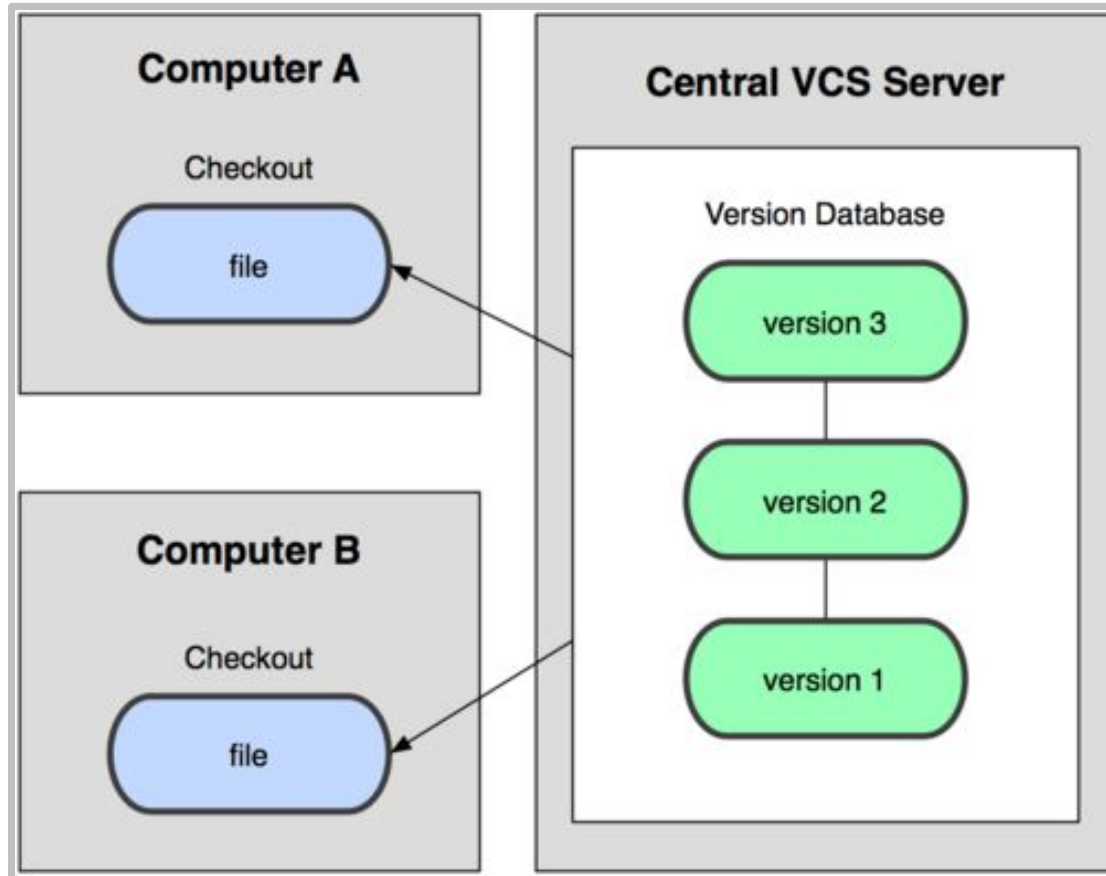
 [Windows Build](#)

 [Source Code](#)

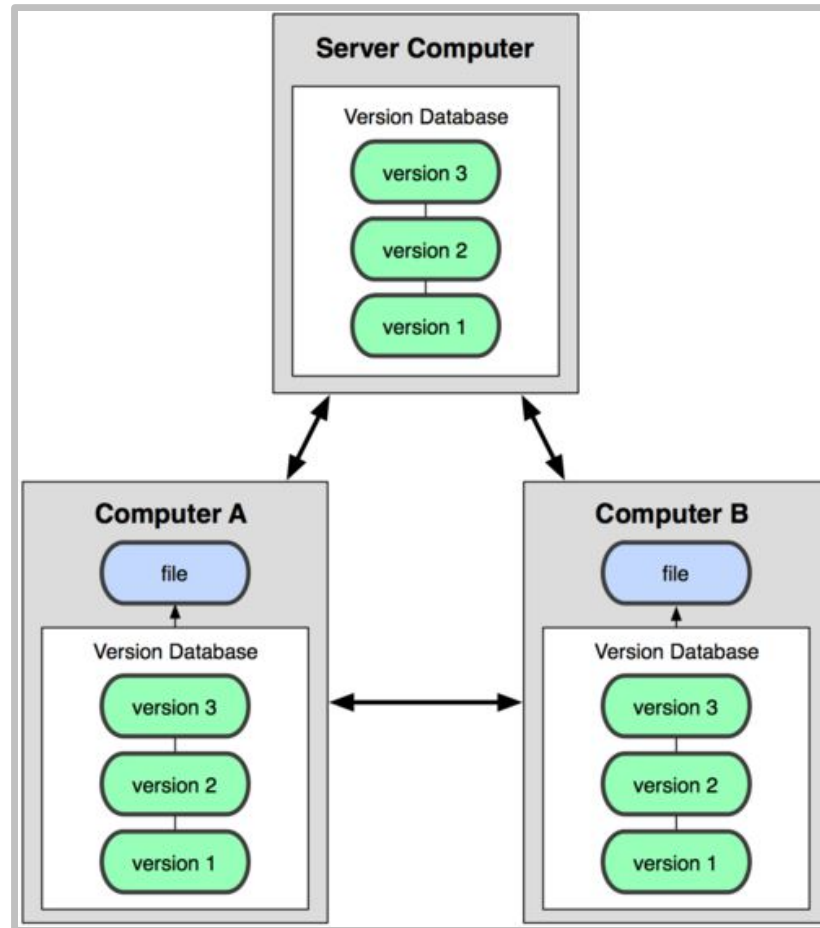
A local version control system



A centralized version control system



Git: a distributed version control system



Git: a command line tool

```
Massimos-MacBook-Air:Open-Design-Definition massimo$ git status
# On branch master
nothing to commit (working directory clean)
Massimos-MacBook-Air:Open-Design-Definition massimo$ git
usage: git [--version] [--exec-path=<path>] [--html-path] [--man-path] [--info-path]
        [-p|--paginate|--no-pager] [--no-replace-objects] [--bare]
        [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
        [-c name=value] [--help]
        <command> [<args>]

The most commonly used git commands are:
add          Add file contents to the index
bisect       Find by binary search the change that introduced a bug
branch       List, create, or delete branches
checkout     Checkout a branch or paths to the working tree
clone        Clone a repository into a new directory
commit       Record changes to the repository
diff         Show changes between commits, commit and working tree, etc
fetch        Download objects and refs from another repository
grep         Print lines matching a pattern
init         Create an empty git repository or reinitialize an existing one
log          Show commit logs
merge        Join two or more development histories together
mv           Move or rename a file, a directory, or a symlink
pull         Fetch from and merge with another repository or a local branch
push         Update remote refs along with associated objects
rebase       Forward-port local commits to the updated upstream head
reset        Reset current HEAD to the specified state
rm           Remove files from the working tree and from the index
show         Show various types of objects
status       Show the working tree status
tag          Create, list, delete or verify a tag object signed with GPG

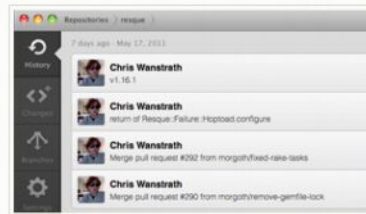
See 'git help <command>' for more information on a specific command.
Massimos-MacBook-Air:Open-Design-Definition massimo$
```


Git: GUIs also available

GUI Clients

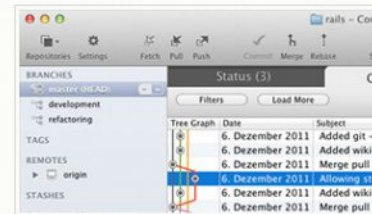
Git comes with built-in GUI tools for committing ([git-gui](#)) and browsing ([gitk](#)), but there are several third-party tools for users looking for platform-specific experience.

Only show GUIs for my OS (Mac)



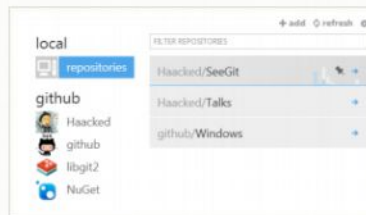
GitHub for Mac

Platforms: Mac
Price: Free



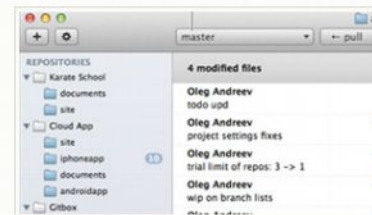
Tower

Platforms: Mac
Price: \$59/user (Free 30 day trial)



GitHub for Windows

Platforms: Windows
Price: Free





Gitbox

Platforms: Mac
Price: \$9.99 / Free for personal use

01: Download and install Git

Downloads

 **Mac OS X**  **Windows**

 **Linux**  **Solaris**

Older releases are available and the [Git source repository](#) is on GitHub.

GUI Clients

Git comes with built-in GUI tools ([git-gui](#), [gitk](#)), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.


[View Logos →](#)

Git via Git


If you already have Git installed, you can get the latest development version via Git itself:

```
git clone https://github.com/git/git.git
```

You can also always browse the current contents of the git repository using the [web interface](#).



Git: a good free book


 **git** —everything-is-local

Search entire site...

About
Documentation
Reference
Book
Videos
External Links
Downloads
Community

Book

The entire Pro Git book, written by Scott Chacon and published by Apress, is available here. All content is licensed under the [Creative Commons Attribution Non Commercial Share Alike 3.0 license](#). Print versions of the book are available on [Amazon.com](#).



Download this book in [PDF](#), [mobi](#), or [ePub](#) form for free.

This book is translated into [German](#), [Chinese](#), [French](#), [Japanese](#) and [Dutch](#).

Partial translations available in [Arabic](#), [Czech](#), [Spanish](#), [Indonesian](#), [Italian](#), [Macedonian](#), [Polish](#), [Thai](#) and [Russian](#).

1. Getting Started

- 1.1 About Version Control
- 1.2 A Short History of Git
- 1.3 Git Basics
- 1.4 Installing Git
- 1.5 First-Time Git Setup
- 1.6 Getting Help
- 1.7 Summary

2. Git Basics

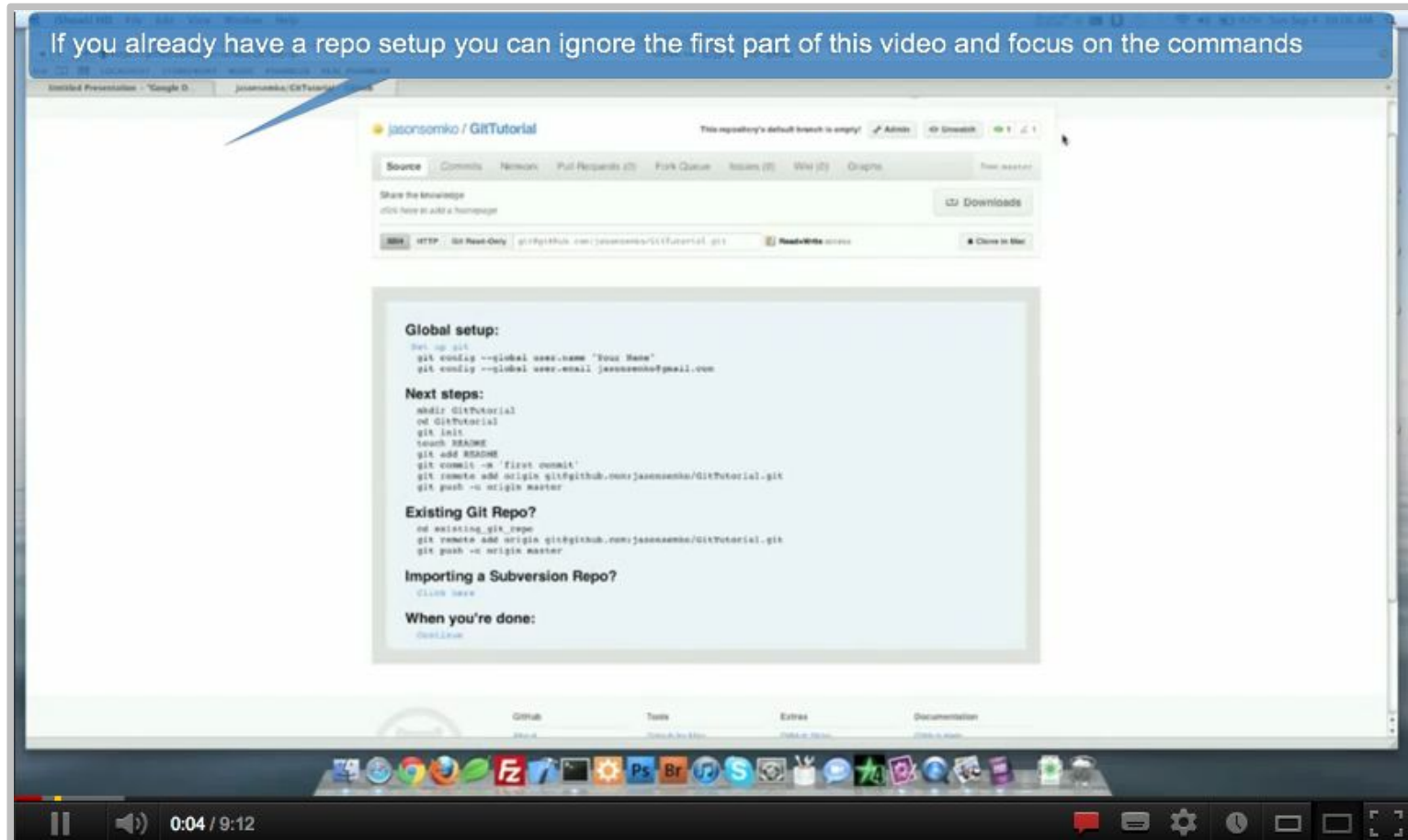
- 2.1 Getting a Git Repository
- 2.2 Recording Changes to the Repository
- 2.3 Viewing the Commit History
- 2.4 Undoing Things
- 2.5 Working with Remotes
- 2.6 Tagging
- 2.7 Tips and Tricks

Git: a good free lecture, from the same author



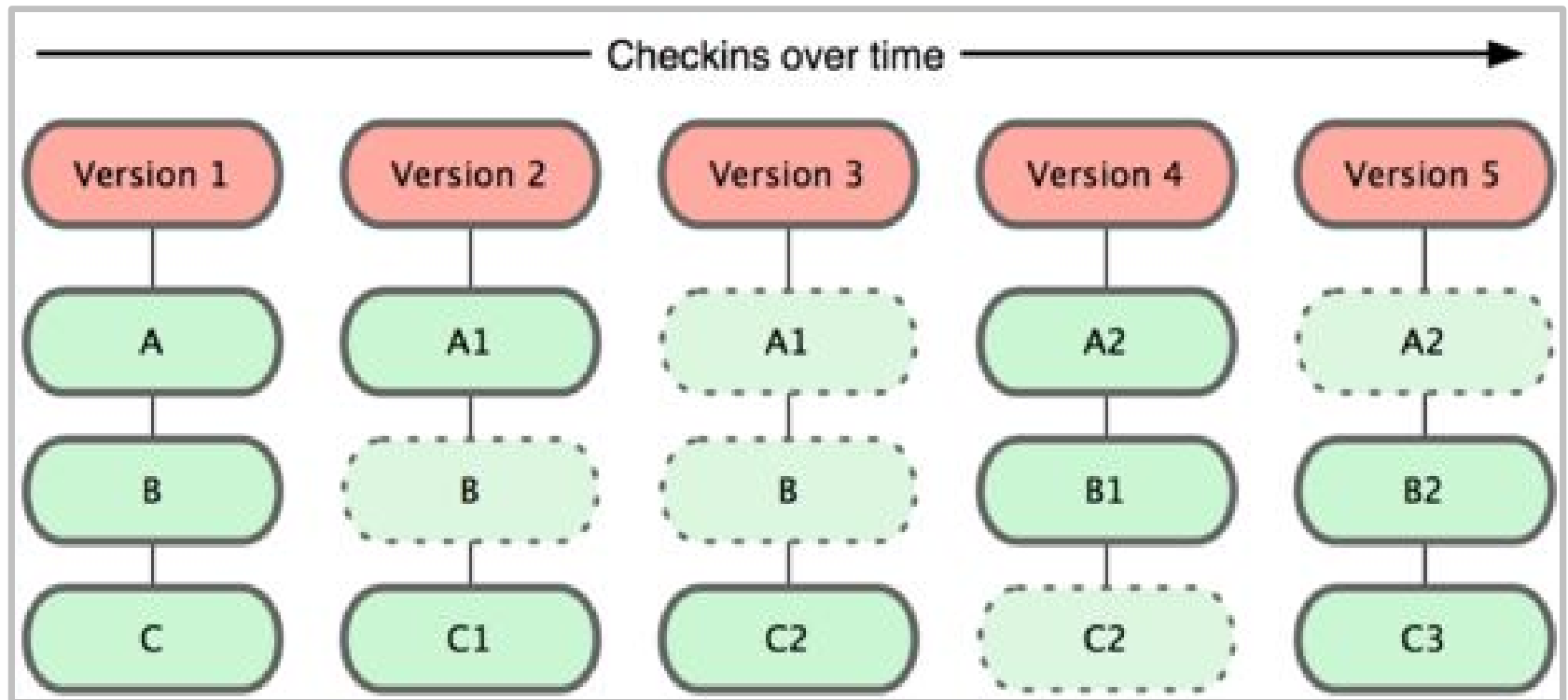
Source: <http://www.youtube.com/watch?v=ZDR433b0HJY>

Git: good videotutorials

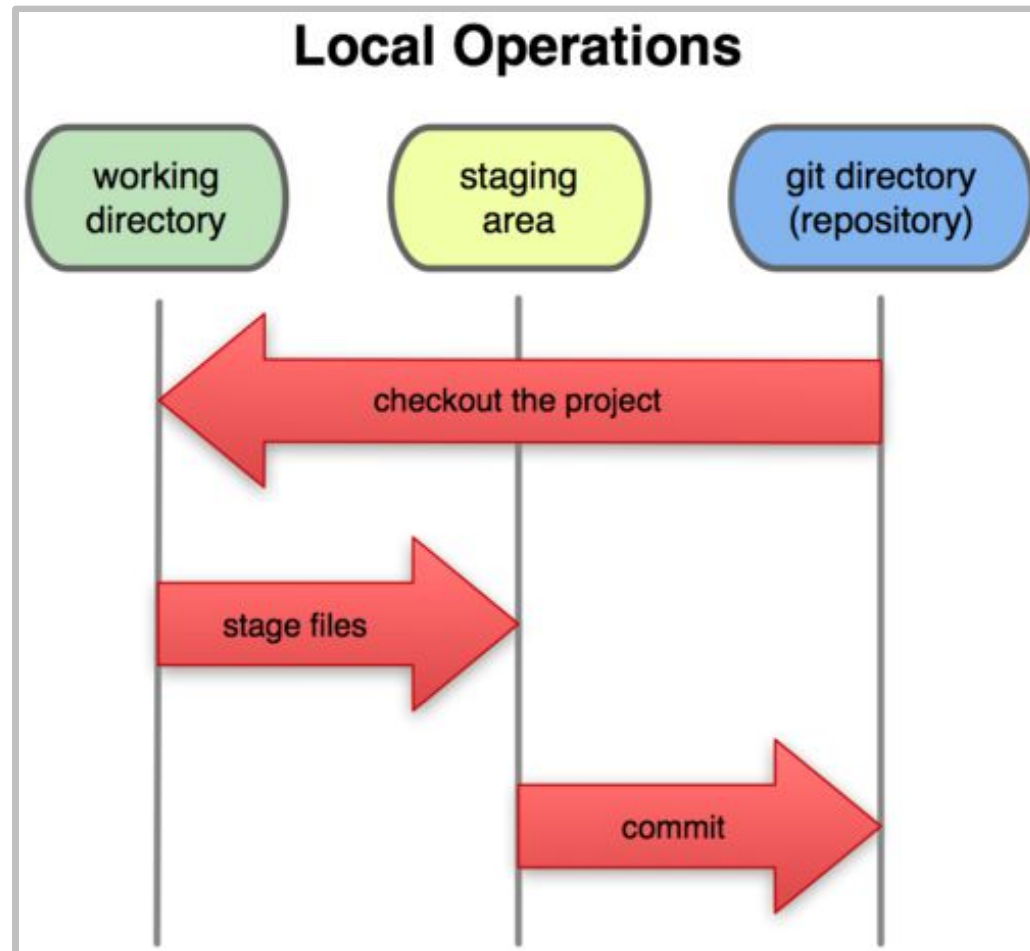


Source: <http://youtu.be/DQUcmN04diQ>

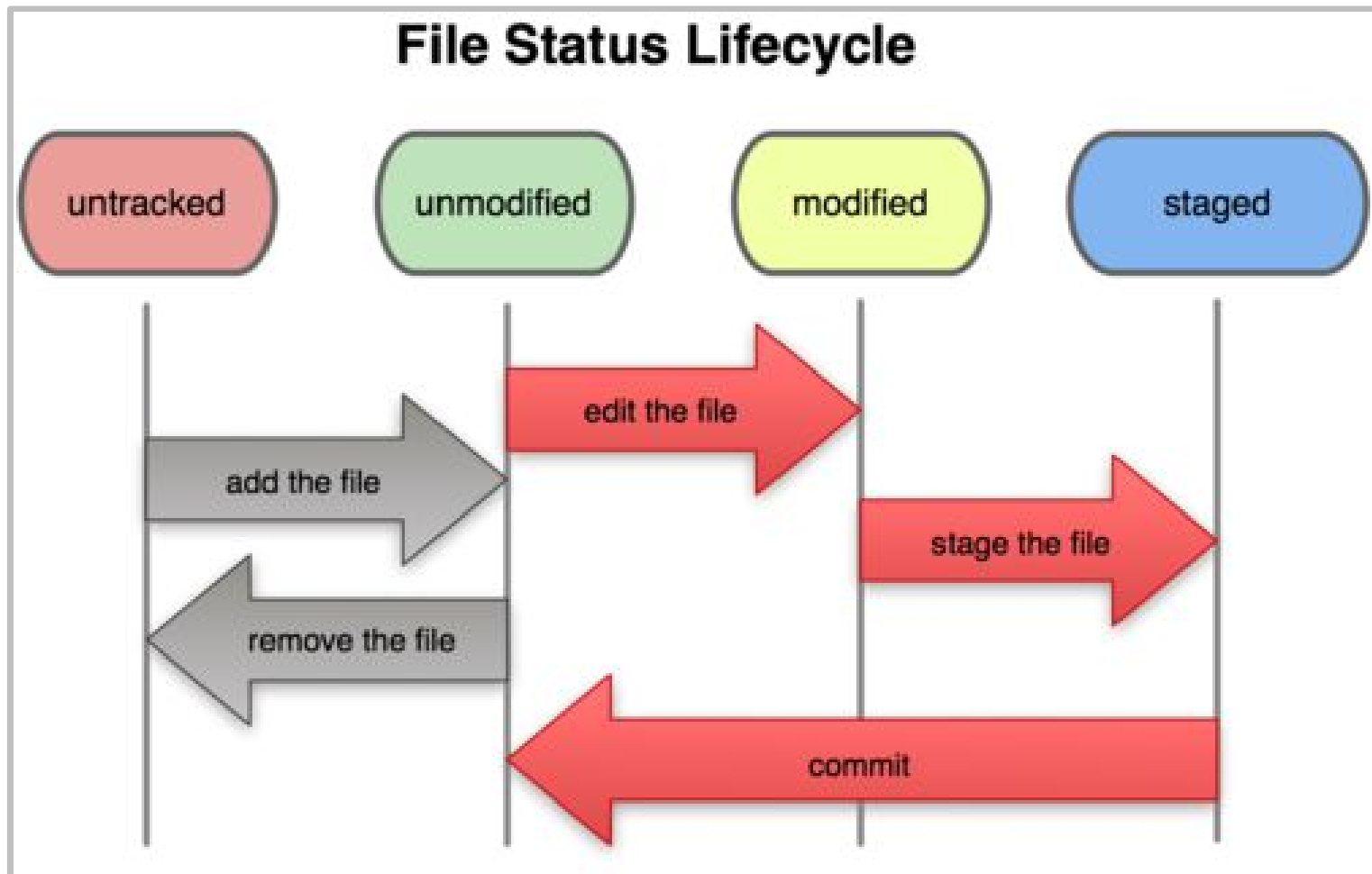
Git: history of a file system



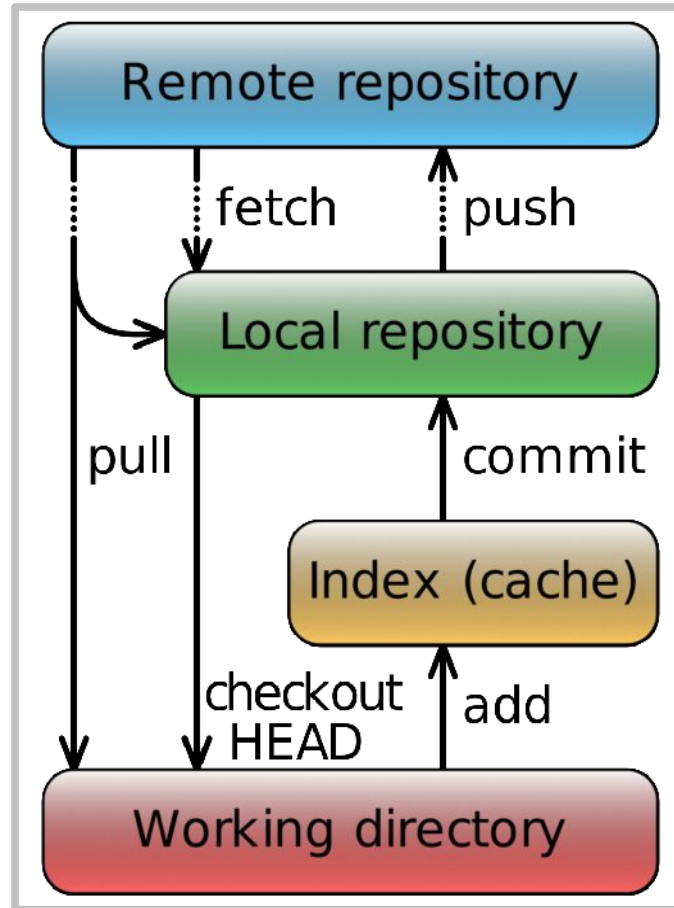
Git: architecture



Git: history of a file



Git: commands and architecture





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02.

GitHub – the easy online interface to a repository



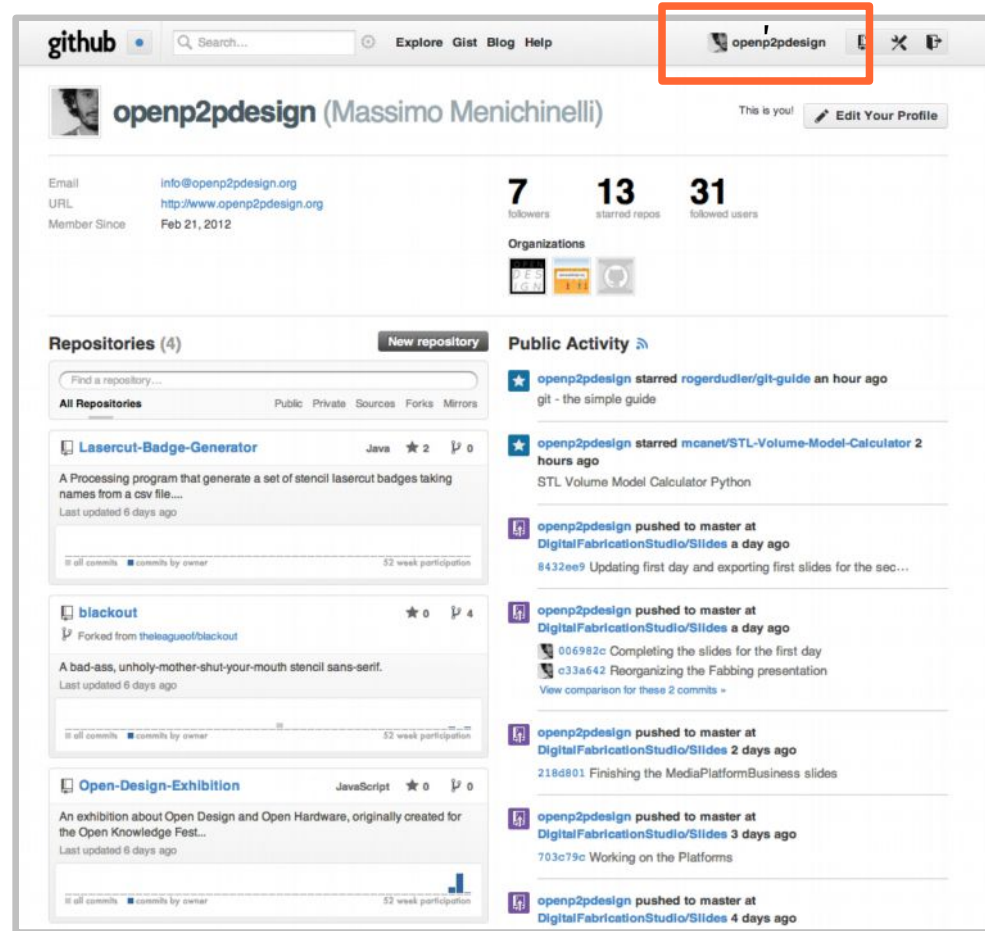
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02: Create a user (free plan)

The screenshot shows the GitHub 'Plans & Pricing' page. At the top, the GitHub logo is on the left, and navigation links for 'Signup and Pricing', 'Explore GitHub', 'Features', 'Blog', and 'Sign in' are on the right. The main heading is 'Plans & Pricing', followed by the tagline 'Join today and collaborate with the smartest developers in the world.' Below this, the 'Free for open source' plan is featured in a yellow box. It offers 'Unlimited public repositories and unlimited public collaborators' for '\$0/mo'. A red box highlights the 'Create a free account' button in the top right corner of this plan's card. Below the free plan are three paid plans: 'Micro' (\$7/mo) with 5 private repositories, 'Small' (\$12/mo) with 10 private repositories, and 'Medium' (\$22/mo) with 20 private repositories. Each of these plans also offers unlimited collaborators and public repositories, and has a 'Create an account' button. Further down, the 'Business Plans' section includes 'Bronze' (\$25/mo), 'Silver' (\$50/mo), 'Gold' (\$100/mo), and 'Platinum' (\$200/mo). These plans offer increasing numbers of private repositories (10, 20, 50, and 125 respectively) and unlimited teams and public repositories. Each business plan has a 'Create an organization' button. At the bottom, there is a dark grey section for 'GitHub Enterprise' with a 'Learn more about GitHub Enterprise' button.

Plan	Price	Private Repositories	Collaborators	Public Repositories	Action
Free for open source	\$0/mo	Unlimited	Unlimited	Unlimited	Create a free account
Micro	\$7/mo	5	Unlimited	Unlimited	Create an account
Small	\$12/mo	10	Unlimited	Unlimited	Create an account
Medium	\$22/mo	20	Unlimited	Unlimited	Create an account
Bronze (Business)	\$25/mo	10	Unlimited	Unlimited	Create an organization
Silver (Business)	\$50/mo	20	Unlimited	Unlimited	Create an organization
Gold (Business)	\$100/mo	50	Unlimited	Unlimited	Create an organization
Platinum (Business)	\$200/mo	125	Unlimited	Unlimited	Create an organization

03: Send your username to massimo.menichinelli@aalto.fi



04. Download a client: an easy client for Mac

The screenshot displays the GitHub for Mac website. At the top, the 'github*mac' logo is on the left, and a badge on the right says 'Download the latest Core Charles - September 5th 2012' with an Apple logo and 'OS X 10.7+'. The main heading is 'Introducing GitHub for Mac' with the subtext 'The easiest way to share your code with GitHub'. A large orange button reads 'Download GitHub for Mac' with 'Free to download, free to use' below it. Navigation links for 'Overview', 'Help', and 'Release Notes' are present. A row of five green checkmarks lists features: 'Clone repositories', 'Browse history', 'Commit changes', 'Branch code', and 'Share code on github.com'. A quote states: 'At GitHub, we think that sharing code should be as simple as possible. That's why we created GitHub for Mac.' Below this are three panels illustrating features: 1. 'Synchronize branches' showing a 'Sync Branch' button and commit details for 'semaphore-lifetime' (8. Aug, 818428a). 2. 'Clone repositories in one click' showing a list of repositories including 'github/ReactiveCocoa', 'github/Mac', and 'github/ace-modes'. 3. 'Powerfully simple branching' showing a 'request...' branch with a 'Published' button and a commit hash '2:07 nachem'.

github*mac

OS X 10.7+ Download the latest Core Charles - September 5th 2012

Introducing GitHub for Mac

The easiest way to share your code with GitHub

Download GitHub for Mac
Free to download, free to use

Overview Help Release Notes

- ✓ Clone repositories
- ✓ Browse history
- ✓ Commit changes
- ✓ Branch code
- ✓ Share code on github.com

At GitHub, we think that sharing code should be as simple as possible.
That's why we created GitHub for Mac.

Synchronize branches

The sync button pushes your changes to GitHub and pulls down other's changes in one operation, letting you quickly share local

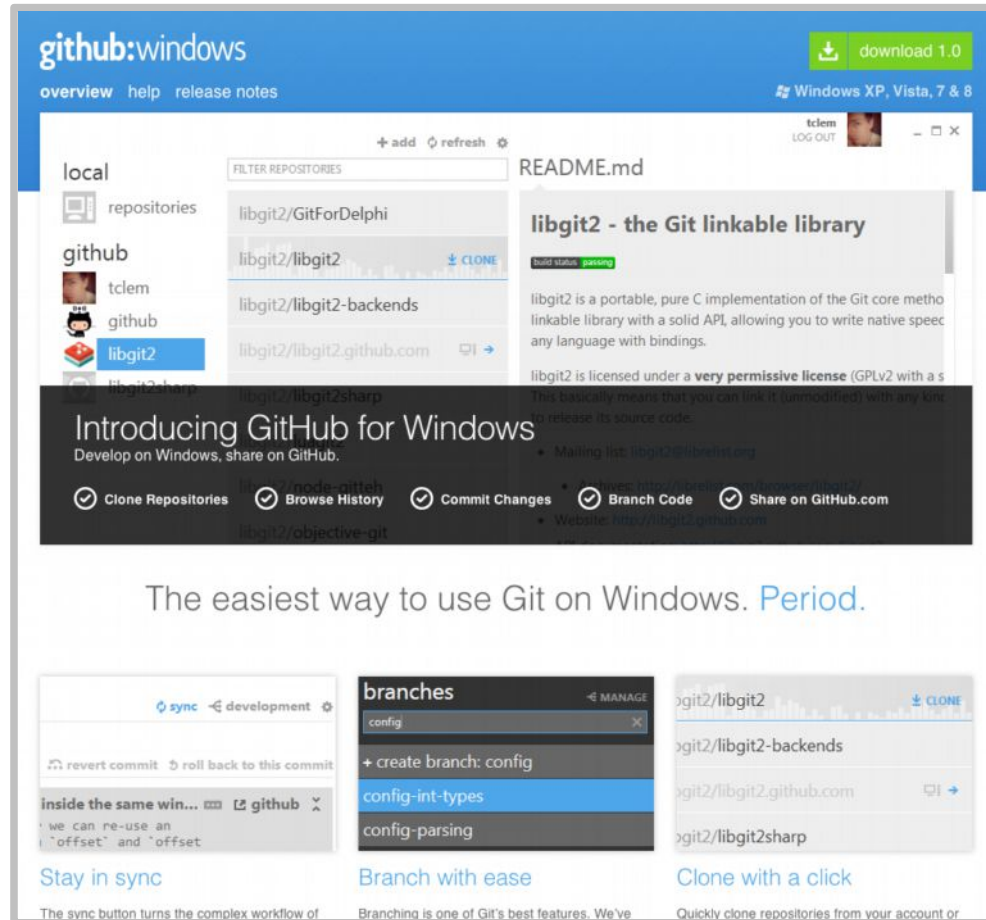
Clone repositories in one click

When you add repositories to GitHub for Mac, we automatically match them up with any organizations you belong to. Want to pull down

Powerfully simple branching

Branching is one of Git's best features. We've made it easy to try out remote branches, create new local branches and publish

04. Download a client: an easy client for Windows



04. Download a client: an easy client for Eclipse

The screenshot displays the 'github:eclipse' website. At the top, there's a navigation bar with the 'github:eclipse' logo and a 'Download EGit from Eclipse.org' button. The main content area features a large heading 'Develop with Git in Eclipse, Share and discuss on GitHub' followed by a subheading 'Branch, merge, clone, and synchronize repositories from Eclipse with EGit. Work with issues, pull requests, and Gists from Eclipse with the GitHub Mylyn Connector.' Below this is a prominent 'Download Git & GitHub for Eclipse' button with the text 'Free to download, free to use.' and a large downward arrow.

On the right side, there's a sidebar showing a 'Git Repositories' view with a tree structure of repositories: 'bootstrap [2.0.4-wip]', 'hubot [master]', and 'jquery [master]'. Below this is a 'Branches' view showing 'Local' and 'Remote' branches, with 'master' selected. A 'Tags' view shows 'origin' and 'origin/' tags. A 'References' view shows '6289: model.association.delete_all perform' and 'Issue 6289'.

Below the main content area, there's a section titled 'EGit and the GitHub Mylyn Connector use JGit, a Java implementation of the Git version control system. Download JGit from Eclipse.org'. Below this is a 'Overview' tab with 'Help' and 'Release Notes' sub-tabs. The 'Overview' tab contains three main sections: 'Git Staging' showing 'hubot' and 'Unstaged Changes (2)' with files 'package.json' and 'roles.coffee - src/scripts'; 'Track Edits' showing a commit '643ee73c' by 'Wesley Wolfe' and 'EvilSeph'; and 'Browse History' showing a commit history graph with branches 'master', 'origin/HEAD', 'origin/gh-pages', and 'origin/gh-pages'.

Aptana: my suggestion for Eclipse



aptana PRODUCTS SUPPORT NEWS CONTRIBUTE Search

Aptana Studio 3

The world's most powerful open-source web development IDE just got better. Rebuilt from the ground-up. It's now much faster, customizable and includes new features to help you be more productive. [Learn more.](#)

DOWNLOAD APTANA STUDIO 3

614497 DOWNLOADS

Build web applications quickly and easily using the industry's leading web application IDE. Aptana Studio harnesses the flexibility of Eclipse and focuses it into a powerful web development engine.

APTANA ON TWITTER

Aptana: @noamcb Yes. You need to uninstall PyDev and re-install Aptana 7m

Aptana: @theDylanBarth That should have been fixed long ago. If you have a reproducible test case, please file a bug and we'd be happy to look. 7m

Aptana: @theDylanBarth Check Commands > Source > Comments for associated key commands 7m

Aptana: @theDylanBarth Thanks! What kind of commenting shortcut? 7m

Developers Wanted

Aptana Studio 3 expands on the core capabilities of Aptana Studio 2 for building, editing, previewing and debugging HTML, CSS and JavaScript websites with PHP and Ruby on Rails web development. [Download now.](#)

DOWNLOAD Titanium

Titanium helps you build native mobile apps for iOS, Android and Windows Phone.

Aptana Acquired by Appcelerator

Appcelerator is the leading provider of mobile development tools and services. We are excited to announce that we have acquired Aptana, a leading provider of web development tools and services. This acquisition will enable us to provide a comprehensive suite of tools and services for mobile development.

04. Download a client: SourceTree



The image shows the SourceTree download page. At the top left, the Atlassian logo is above the 'SourceTree' title. Below this, a text block states: 'SourceTree is a **free** Mac client for Git, Mercurial and SVN version control systems.' A blue button with the text 'Download Free' and 'Mac OS X 10.6+' is accompanied by a download icon. Below the button, a link says 'You can also [register for free](#) >'. On the right side, there is a large graphic of a magnifying glass with a circuit-like tree inside. A thick, multi-colored line (blue, green, yellow, orange) extends from the bottom of the magnifying glass handle, curving around to the left and then down to the bottom right corner. On the left side, under the heading 'DVCS Made Easy', a text block says 'Learning and using DVCS is made easy with SourceTree:' followed by a bulleted list: '• Create and clone repos from anywhere', '• Commit, push, pull and merge', '• Detect and resolve conflicts', and '• Search repository histories for changes'. Below the list is a screenshot of the SourceTree application interface. At the bottom left, a link says 'SourceTree in a Nutshell (3:12) >'. At the bottom right, there are four small screenshots of the application's various features. The text 'I love SourceTree' is written in a cursive font at the bottom right.

Atlassian
SourceTree

SourceTree is a **free** Mac client for Git, Mercurial and SVN version control systems.

Download Free
Mac OS X 10.6+

You can also [register for free](#) >

DVCS Made Easy

Learning and using DVCS is made easy with SourceTree:

- Create and clone repos from anywhere
- Commit, push, pull and merge
- Detect and resolve conflicts
- Search repository histories for changes

[SourceTree in a Nutshell \(3:12\)](#) >

"I love SourceTree"

04. Download a client: GitX(L)

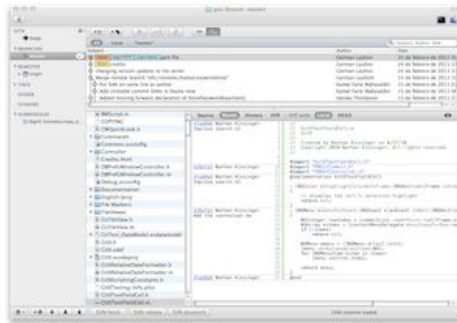


GitX (L)

Open Source Mac OS X Git client

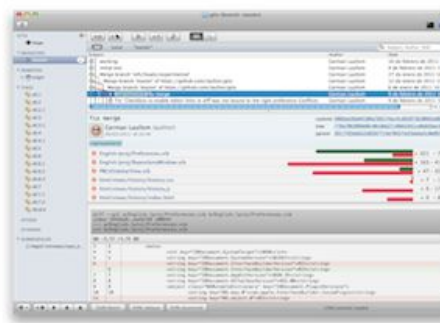
Download GitX (L) v0.8.4

License GPL v2



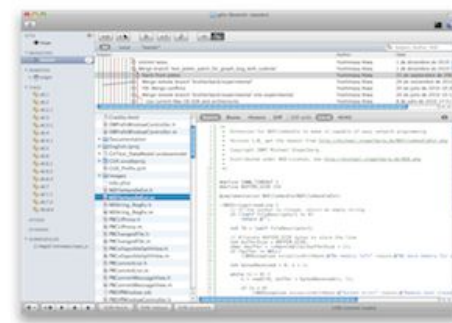
Commit view

- Commit/Parents/Tree SHA links
- File changes counts
- File Diffs
- Commit Tags and Refs



File view

- Source Code Highlight
- Blame
- File History (log)
- Diff with local and HEAD



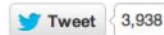
Stage view

- Unstaged/Staged files
- Stage/Discard by lines
- Amend
- File diff

Git, a simple guide...

git - the simple guide

just a simple guide for getting started with git. no deep shit ;)



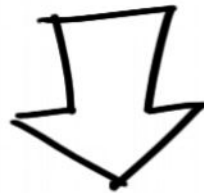
by Roger Dudler

credits to @tfnico, @fhd and Namics

this guide in deutsch, español, français, italiano, nederlands, português, русский, türkçe,

မြန်မာ, 日本語, 中文, 한국어

please report issues on [github](#)



On GitHub itself ;)

The screenshot shows the GitHub interface for the repository 'rogerdudler / git-guide'. The repository is public and has 488 stars and 100 forks. The 'Code' tab is selected, showing the repository name, a description 'git - the simple guide', and a link to the repository. Below this, there are buttons for 'Clone in Mac', 'ZIP', 'HTTP', 'Git Read-Only', and a link to the repository URL. The 'Files' tab is selected, showing a list of files and their commit history. The latest commit is a merge pull request #39 from mckanet/gh-pages, authored by rogerdudler a month ago, with commit hash 25fbaebc13.

git - the simple guide — [Read more](#)
<http://rogerdudler.github.com/git-guide>

[Clone in Mac](#) [ZIP](#) [HTTP](#) [Git Read-Only](#) <https://github.com/rogerdudler/git-guide.git> [Read-Only access](#)

branch: [gh-pages](#) [Files](#) [Commits](#) [Branches](#) [Tags](#) [Downloads](#)

Latest commit to the [gh-pages](#) branch

Merge pull request #39 from mckanet/gh-pages

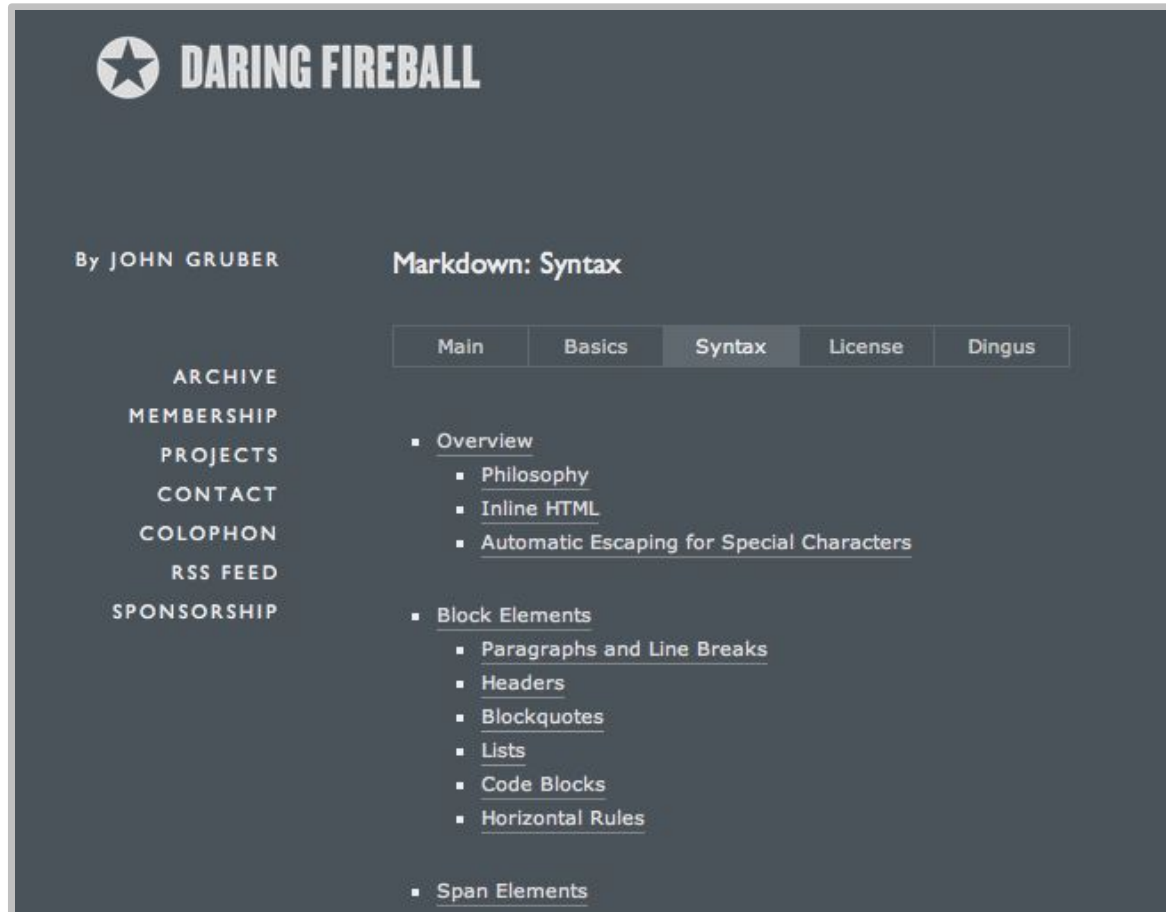
[rogerdudler](#) authored a month ago [commit 25fbaebc13](#)

[git-guide](#) /

name	age	message	history
css	8 months ago	comment text align changed to left [rogerdudler]	
files	8 months ago	added cheat sheet [rogerdudler]	
img	8 months ago	added cheat sheet [rogerdudler]	
js	8 months ago	initial work [rogerdudler]	
.gitignore	7 months ago	Simplified chinese version complete [dotnil]	
README.md	7 months ago	use markdown as the readme syntax [dotnil]	
index.de.html	a month ago	[UPD] translated to turkish [mcka]	
index.es.html	a month ago	[UPD] translated to turkish [mcka]	
index.fr.html	a month ago	[UPD] translated to turkish [mcka]	

Source: <https://github.com/rogerdudler/git-guide>

05. Learn Markdown



The screenshot shows the Daring Fireball website with a dark gray background. At the top left is the logo, a white star inside a circle, followed by the text "DARING FIREBALL" in white. Below the logo, on the left side, is a vertical list of links: "By JOHN GRUBER", "ARCHIVE", "MEMBERSHIP", "PROJECTS", "CONTACT", "COLOPHON", "RSS FEED", and "SPONSORSHIP". In the center, the title "Markdown: Syntax" is displayed. Below the title is a horizontal navigation bar with five buttons: "Main", "Basics", "Syntax" (which is highlighted), "License", and "Dingus". To the right of the navigation bar is a list of links organized into three sections: "Overview" (with links to "Philosophy", "Inline HTML", and "Automatic Escaping for Special Characters"), "Block Elements" (with links to "Paragraphs and Line Breaks", "Headers", "Blockquotes", "Lists", "Code Blocks", and "Horizontal Rules"), and "Span Elements".

DARING FIREBALL

By JOHN GRUBER

ARCHIVE
MEMBERSHIP
PROJECTS
CONTACT
COLOPHON
RSS FEED
SPONSORSHIP

Markdown: Syntax

Main Basics **Syntax** License Dingus

- Overview
 - Philosophy
 - Inline HTML
 - Automatic Escaping for Special Characters
- Block Elements
 - Paragraphs and Line Breaks
 - Headers
 - Blockquotes
 - Lists
 - Code Blocks
 - Horizontal Rules
- Span Elements

05. Learn GitHub Markdown

githubflavoredmarkdown

[Support](#) [Back to GitHub](#)

Introduction to GFM

GitHub uses what we're calling "GitHub Flavored Markdown" (GFM) for messages, issues, and comments. It differs from standard Markdown (SM) in a few significant ways and adds some additional functionality.

If you're not already familiar with Markdown, you should spend 15 minutes and go over the excellent [Markdown Syntax Guide](#) at Daring Fireball.

If you prefer to learn by example, see the following source and result:

- [Source](#)
- [Result](#)

If you're interested in how we render Markdown files, you might want to check out [Redcarpet](#), our Ruby interface to the [Sundown](#) library.

Differences from traditional Markdown

Newlines

The biggest difference that GFM introduces is in the handling of linebreaks. With SM you can hard wrap paragraphs of text and they will be combined into a single paragraph. We find this to be the cause of a huge number of unintentional formatting errors. GFM treats newlines in paragraph-like content as real line breaks, which is probably what you intended.

The next paragraph contains two phrases separated by a single newline character:

```
Roses are red  
Violets are blue
```

becomes

Roses are red Violets are blue

Multiple underscores in words

It is not reasonable to italicize just *part* of a word, especially when you're dealing with code and names often appear with multiple underscores. Therefore, GFM ignores multiple underscores in words.

Markdown Cheat Sheet

On Markdown-enabled portions of the site, press **M** on your keyboard to display a cheat sheet.

05. Learn GitHub Markdown

Markdown Cheat Sheet

Format Text

Headers

```
# This is an <h1> tag
## This is an <h2> tag
##### This is an <h6> tag
```

Text styles

```
*This text will be italic*
_This will also be italic_
**This text will be bold**
__This will also be bold__
*You **can** combine them*
```

Lists

Unordered

```
* Item 1
* Item 2
  * Item 2a
  * Item 2b
```

Ordered

```
1. Item 1
2. Item 2
3. Item 3
  * Item 3a
  * Item 3b
```

Miscellaneous

Images

```
! [GitHub Logo] (/images/logo.png)
Format: ![Alt Text](url)
```

Links

```
http://github.com - automatic!
[GitHub](http://github.com)
```

Blockquotes

```
As Kanye West said:

> We're living the future so
> the present is our past.
```

Code Examples in Markdown

Syntax highlighting with [GFM](#)

```
```javascript
function fancyAlert(arg) {
 if(arg) {
 $.facebox({div:'#foo'})
 }
}
```
```

Or, indent your code 4 spaces

```
Here is a Python code example
without syntax highlighting:

    def foo:
        if not bar:
            return true
```

Inline code for comments

```
I think you should use an
`<addr>` element here instead.
```

GitHub

Clients

Tools

Documentation

05a. Convert text to Markdown

Try Pandoc!

Type in this box and from to

```
# Pandoc
```

```
Pandoc is a program for converting between various markup formats. Input formats include markdown, reStructuredText, HTML, and LaTeX; output formats include HTML, LaTeX, ConTeXt, S5, DocBook, groff man, reStructuredText, markdown, and RTF. Many extensions to standard markdown syntax are provided, including inline LaTeX math, tables, definition lists, superscripts and subscripts, smart quotes and dashes, and footnotes. Pandoc is written in [Haskell]. To find out more about pandoc, visit [the pandoc home page].
```

```
[the pandoc home page]: /pandoc  
[Haskell]: http://haskell.org
```

Result:

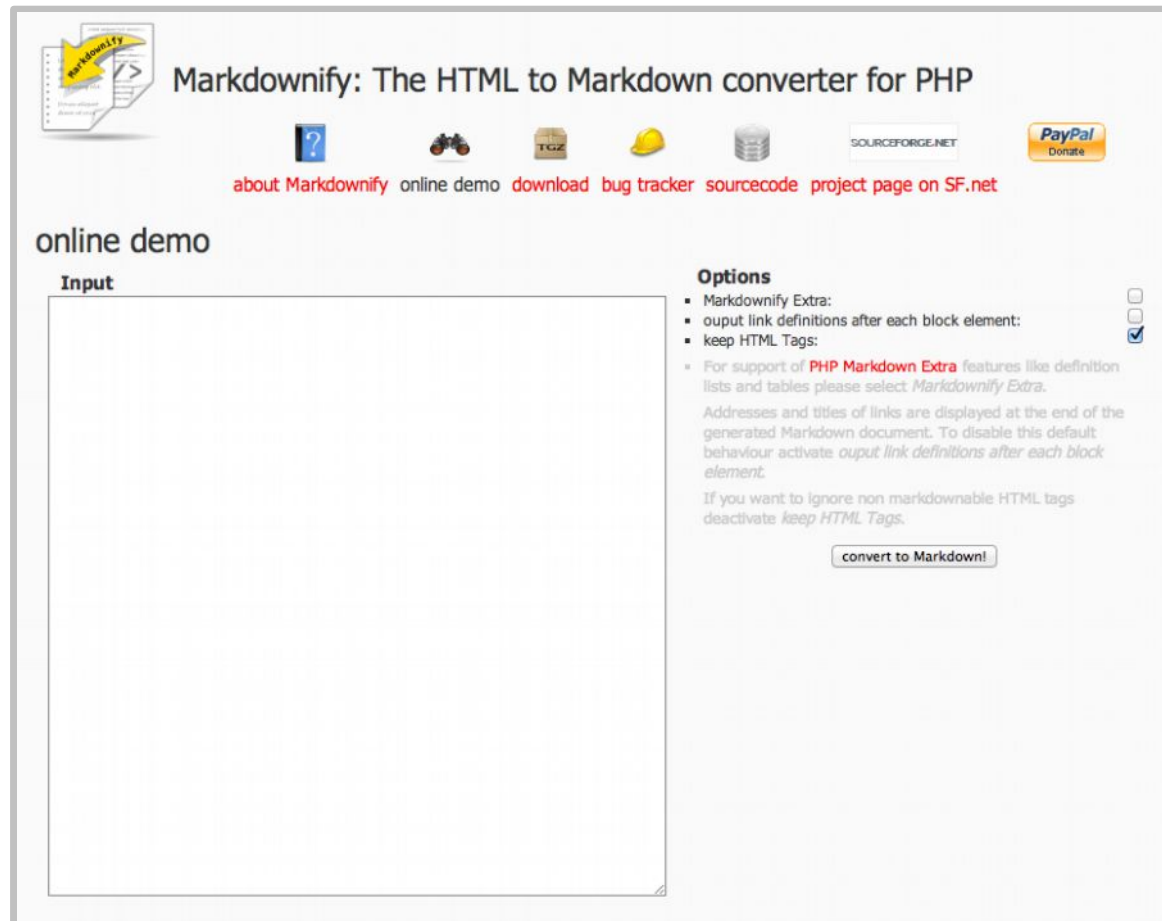
```
<h1 id="pandoc">Pandoc</h1>
```

```
<p>Pandoc is a program for converting between various markup formats. Input formats include markdown, reStructuredText, HTML, and
```

Pandoc

Pandoc is a program for converting between various markup formats. Input formats include markdown, reStructuredText, HTML, and LaTeX; output formats include HTML, LaTeX, ConTeXt, S5, DocBook, groff man, reStructuredText, markdown, and RTF. Many extensions to standard markdown syntax are provided, including inline LaTeX math, tables, definition lists, superscripts and subscripts, smart quotes and dashes, and footnotes. Pandoc is written in [Haskell](http://haskell.org). To find out more about pandoc, visit [the pandoc home page](#).

05a. Convert text to Markdown



The screenshot shows the 'Markdownify: The HTML to Markdown converter for PHP' website. At the top, there is a logo and a navigation bar with links: 'about Markdownify', 'online demo', 'download', 'bug tracker', 'sourcecode', and 'project page on SF.net'. A 'PayPal Donate' button is also present. The main section is titled 'online demo' and contains an 'Input' text area on the left. To the right of the input area is an 'Options' section with three checkboxes: 'Markdownify Extra:' (unchecked), 'output link definitions after each block element:' (unchecked), and 'keep HTML Tags:' (checked). Below these options, there is explanatory text about 'PHP Markdown Extra' features and a note about link definitions. At the bottom right of the options section is a 'convert to Markdown!' button.

Markdownify: The HTML to Markdown converter for PHP

about Markdownify online demo download bug tracker sourcecode project page on SF.net

online demo

Input

Options

- Markdownify Extra: ☐
- output link definitions after each block element: ☐
- keep HTML Tags: ☒

For support of **PHP Markdown Extra** features like definition lists and tables please select *Markdownify Extra*.

Addresses and titles of links are displayed at the end of the generated Markdown document. To disable this default behaviour activate *output link definitions after each block element*.

If you want to ignore non markdownable HTML tags deactivate *keep HTML Tags*.

convert to Markdown!



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03.

Exercise:

Create a repository, create your bio with your picture inside it. Try it with Git and with the GitHub client.



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Thank you!!

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@openp2pdesign
<http://www.slideshare.net/openp2pdesign>



11.09.2012