dictcp /
awesome-git

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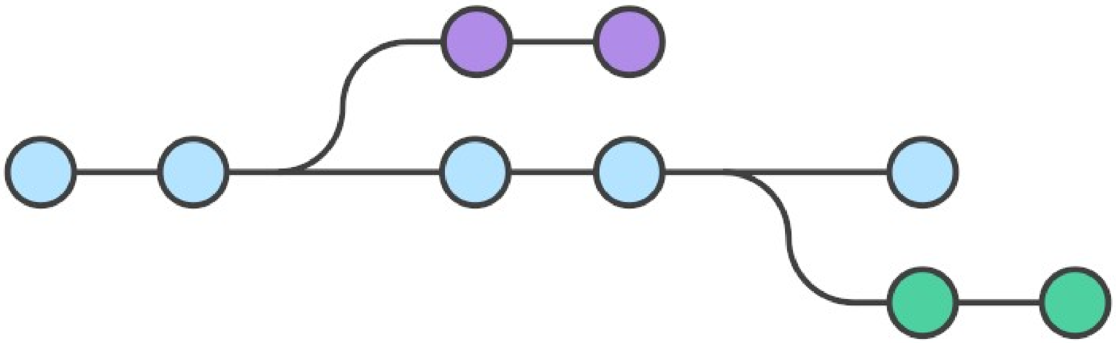
master   awesome-git / README.md

dictcp Merge branch 'master' into patch-1   9 months ago

185 lines (160 loc) · 16.5 KB

Preview   Code   Blame   Raw



Awesome Git

A curated list of amazingly awesome Git tools, resources and shiny things.

Contributing

Pull requests on interesting tools/projects/resources are welcome.

Table of Contents

Tutorial

There are tons of learning material on the Web

- Try Git - learn Git in 15 minutes with pseudo-terminal interface
- Atlassian Git Tutorial - comprehensive tutorial on Git
- Learn Version Control with Git - freemium ebook from fournova Software (makers for Tower), associated with paid video course
- Pro Git - free Git book, also available on paper (CC BY-NC-SA 3.0)
- Learn how to use Git - free tutorials and resources to help you learn the basics of Git
- The Git Community Book - book built by dozens of people in the Git community
- Git Pocket Guide - a short O'Reilly book on Git
- Git Real: Code School - paid training course from Code School
- Git Branching - visual way to learn git branching
- Learn Git in a Month of Lunches - tutorial-based book by Manning Publications
- Git Magic - short book about Git
- Git from the bottom up - great series of articles about Git
- Git-It - Interactive Tutorial App that runs on your Desktop!
- Git How To - step by step intro
- Migrating to Git LFS - Use Git LFS on an existing repository to manage large files in a better way
- Explain Git with D3 - Visualized few basic Git concepts using D3.js: commit, branch, checkout, reset, revert, merge, rebase, fetch, pull, push, tag
- Making Sense of Git – A Visual Perspective - Git from a timeline and level perspective and git commands cheatsheet grouped by functionality
- Git & Git-Flow Cheat Sheet
- Git Tips
- Interactive/Contextual/Visual Cheat Sheet
- The 'Git Pretty' Flow-Chart - How to Recover from a Mess
- Software Carpentry: Git Lessons
- The Git Parable - GitHub Cofounder's Narrative-style Intro to Git Concepts
- CodeBasicsHub: Git Video Tutorials
- Intermediate Git - lower-level, more structural explanation of git concepts
- Fork and Pull Request Workflow - Very nicely explained, simple and crisp way of understanding git fork and pull request workflow.

- Git School Dude - It's a YouTube channel with a lot of great git videos. It covers everything from the basics to advanced Git topics.
- A Git Choose Your Own Adventure - I never found a git tutorial I didn't understand while doing it. Just sometimes those tutorials didn't line up very well with my actual work. This git help in the form of a choose your own adventure was a life saver when I was first starting out.
- On undoing, fixing, or removing commits in git - fairly comprehensive guide to recovering from what you did not mean to do when using git
- Deconstructing a git commit - A blog explaining how git creates and stores commit histories.
- Flight rules for Git - guide about what to do when things go wrong
- Use gitk to understand git - all important Git terms (commit, commit SHA, branch, merge, rebase) explained using gitk
- Git Cherry-pick and its usages - A blog explaining how command git cherry-pick works.
- The ultimate guide to `.gitignore` All about `.gitignore` .

Style Guide

Style guide when you work with git

- Udacity Nanodegree Style Guide

Client

Git clients are available on every platform, from mainframe to your mobile device

- GitHub Desktop - Git Client by GitHub. works with GitHub and GitHub Enterprise seamlessly
- SourceTree - free (in-beer) GUI client. Windows and Mac only
- Tower - a popular non-free Git GUI client. Mac and Windows
- GitKraken - a cross Git client for Windows, Mac & Linux. Electron based. Free for non-commercial use and paid Pro version is available.
- Fork - An awesome and free git client for macOS and Windows
- TortoiseGit - an easy-to-use Git client on Windows. well-integrated with Windows Explorer.
- SmartGit - a commercial comprehensive SCM client with Git, SVN, Mercurial. cross-platform (works on Windows, Mac and Linux)
- RabbitVCS - TortoiseSVN inspired graphic tool for version control systems, with Nautilus and Thunar integration
- gitg - a open-source GTK+ GUI client
- git-cola - a cross-platform Git GUI client
- SGit - Git client for Android 4.x
- Ungit - The easiest way to use git. On any platform. Anywhere.
- GitUp - a clean, minimal Git client. Mac only.
- GitExtensions - a shell extension, a Visual Studio 2010-2015 plugin and a standalone Git repository tool.

- WorkingCopy - a powerful Git client for iOS. Free with in-app purchase to unlock the ability to push commits.
- Git Add-ons - Enhance the basic `git` CLI
- Magit - A Git porcelain inside Emacs
- Vershd - a free for personal use effortless Git GUI for Windows, Mac, & Linux.
- lazygit - A simple terminal UI for git commands, written in Go

Repository Hosting

People have plenty of options to host their source code

- GitHub - the de-facto git hosting service. Perfect integration with most external services.
  - Awesome GitHub - Resources & Learning for GitHub
    - GitHub Cheat Sheet
    - GitHub Browser Extensions
- BitBucket - well-known for its free private repository (5 user max).
- Jetbrains Space - Jetbrains all-in-one solution for software teams, with IM, ticket tracking, source control.
- GitLab.com - a free Git repository hosting service served by GitLab EE. Unlimited repositories and private collaborators
- Azure DevOps - cloud service for software development formerly known as Visual Studio Team Services, Visual Studio Online and Team Foundation Service Preview
- AWS CodeCommit - a SaaS service provided by Amazon Web Service on high availability infrastructure
- Kiln - paid Git repository hosting service
- Deveo - a paid repository hosting service with support for Git, Subversion, Mercurial, WebDAV

Self-Hosted Repository

Or you can host the code yourselves

- Gitolite - a simple with fine-grained access control
- GitHub Enterprise - self-hosted solution provided from GitHub
- Bitbucket Server - self-hosted refrom Atlassian. Good integration with JIRA and other Atlassian products
- GitLab CE/EE - a popular open-source Git (CE) with paid support option (EE).
- ~~Upsource - recent offer from Jetbrains, a famous developer-oriented software company. Code repository hosting feature pending. Free for 10 users. Good integration with YouTrack and TeamCity~~
  - Upsource is no longer available as a commercial product as of February 1, 2022.*
- Gogs - a self-hosted Git Service written in Go.
- Gitea - a community managed fork of Gogs, lightweight code hosting solution written in Go.

- onedev - Self-hosted Git Server with Kanban and CI/CD
- GitBucket - a GitHub clone powered by Scala.
- GitBlit - Pure Java Stack for managing, view, and serving Git repositories.
- Apache Allura - an open source implementation of project hosting platform
- Phabricator - an integrated set of powerful tools to help companies build higher quality software
    - Effective June 1, 2021: Phabricator is no longer actively maintained.*
- RhodeCode CE/EE - a platform delivering enterprise source code management
- Soft Serve - a tasty, self-hostable Git server for the command line

Workflow

Inexpensive branching allows people adopt workflows other than the classic centralized workflow

- Pro Git - Distributed Workflows
- Atlassian Git Tutorial - Comparing Workflows
- Patterns for Managing Source Code Branches
- Branching Models article from Nyx

Comparing workflows

No single workflow fits everyone's need

- Gitflow - the most well-known Git workflow model
- GitHub flow - a simple branching model with a single master
- GitLab flow
- Git DMZ Flow
- Aoneflow - an interesting branch model which delays the final merge to production branch, adopted by Alibaba. more article (in Chinese text) at 1, 2
- Agit-flow - Inspired by Gerrit workflow, Agit-flow is a centralized git workflow and used in Alibaba's internal source code platform

Hook management

Git provide hooks at commit/push phrase, allowing integration with and code quality checking tool and Continuous Integration (CI)

- pre-commit - a framework for managing and maintaining multi-language pre-commit hooks from Yelp. Extensive support for multiple programming language.
- Overcommit - a extendable Git hook manager written with Ruby.
- quickhook - a fast, Unix'y, opinionated Git hook runner
- husky - Git hooks for Node.js, manage your hooks from your package.json
- Mookme - A simple and easy-to-use, yet powerful and language agnostic git hook for monorepos

- more on https://githooks.com/

Tools

Various tools for daily operations

- awesome-git-addons - lists more than 20 git addons including all available commands
- myrepos - a tool to manage multiple version control repositories
- mu-repo - a tool to help in dealing with multiple git repositories
- multi-gitter - a tool to make changes in multiple repositories simultaneously
- gitwalk - Bulk processing of git repos
- gr - a tool for managing multiple git repositories
- BFG Repo-Cleaner - a simpler, faster alternative to git-filter-branch for cleansing bad data out of your Git repository history
- GitIgnore Collection - collection of gitignore files for various programming language
- etckeeper - a collection of tools to let /etc be stored in a git repository
- git-extras – git utilities adding useful git commands.
- git-extra-commands - Another collection of useful git commands.
- git-follow - a tool for following lifetime changes of a file throughout the history of a Git repository.
- Gitrob - a command line tool to find sensitive information lingering in publicly available files on GitHub
- gitFS - a FUSE file system that fully integrates with git
- Gitless - an experimental version of Git that changes some of Git's underlying concepts
- ghq — Organization for remote repositories
- bash-git-prompt - An informative and fancy bash prompt for Git users
- conventional-changelog - a set of tools for parsing conventional commit messages from git histories
- release-it - Automate releases for Git repositories and/or npm packages. Changelog generation, GitHub/GitLab releases, etc.
- gickup - Backup repos from various hosters to local or other hosters.
- git-absorb - `git commit --fixup` , but automatic
- jc --git-log - Convert your git log to JSON.
- gitbackup - a tool to backup your Bitbucket, GitHub and GitLab repositories.
- soba - scheduled backups of repositories from popular providers with change detection.

Extensions

Git is designed for source control management. but people extend the idea and push version control to everywhere

- Git Large File Storage - practical solution for versioning large files. supported by GitHub

- Git Virtual File System or GVFS - solution for managing very large Git repository while maintaining speed and efficiency of most operations. in developement by Microsoft.
- git-annex - allow managing large binaries among machines, as if operation a normal git repository. possible to creates a synchronised folder with git-annex assistant.