



git

e a importância de
versionar um projeto

Para que serve?

- Controle de histórico
- Trabalho em equipe
- Marcação de versões estáveis
- Resgate de versões estáveis
- Ramificação de projeto



**Por que
aprender?**

Já pensou em trabalhar em um projeto com várias pessoas trabalhando no mesmo código?



Já pensou em trabalhar em um projeto que possui MILHÕES de linhas de código?



Já pensou em trabalhar com
várias pessoas ao redor do
mundo?



Na hora de lançar uma versão

TUDO PODE DAR ERRADO

Windows

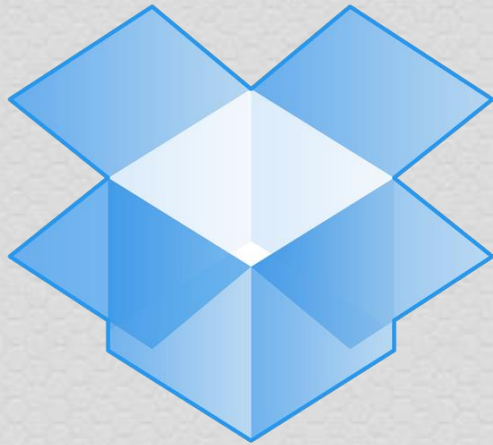
A fatal exception 0E has occurred at 0028:C0011E36 in UXD UMM(01) + 00010E36. The current application will be terminated.

- * Press any key to terminate the current application.
- * Press CTRL+ALT+DEL again to restart your computer. You will lose any unsaved information in all your applications.

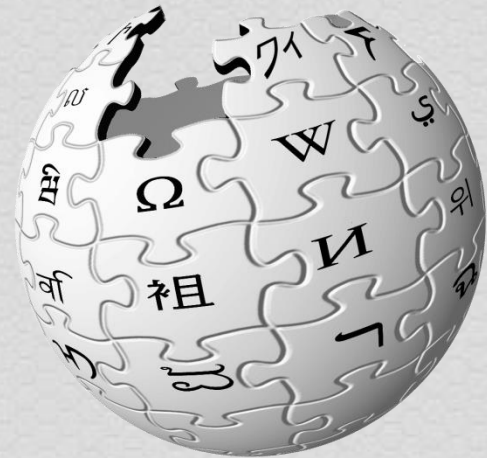
Press any key to continue _

**Sistemas de versionamento
são mais comuns do que
você imagina!**

Inclusive você provavelmente já usou
algum deles sem saber



Dropbox

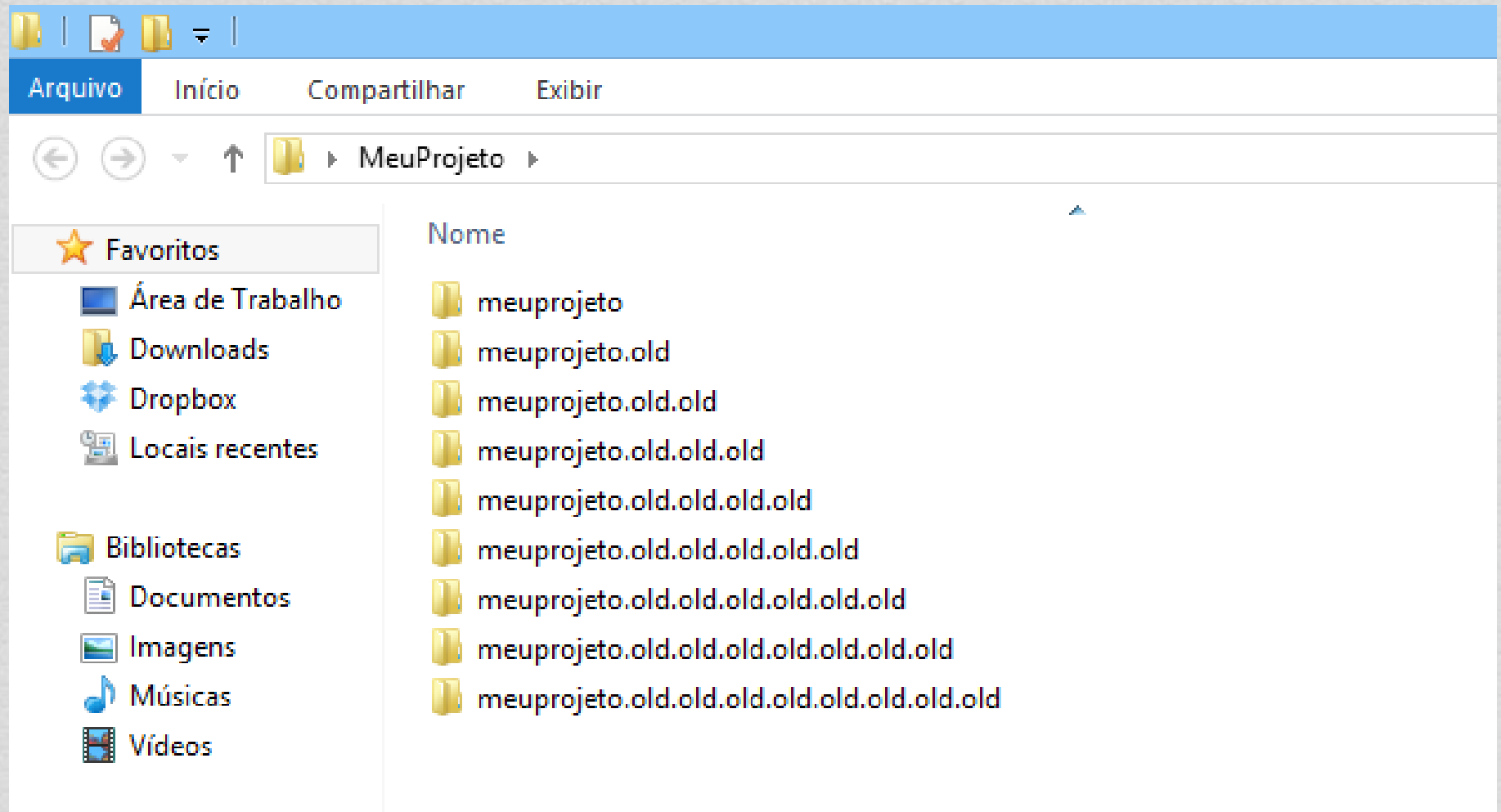


WIKIPEDIA
Die freie Enzyklopädie

Google docs

**Você provavelmente já
precisou versionar algo!**

Quem nunca?



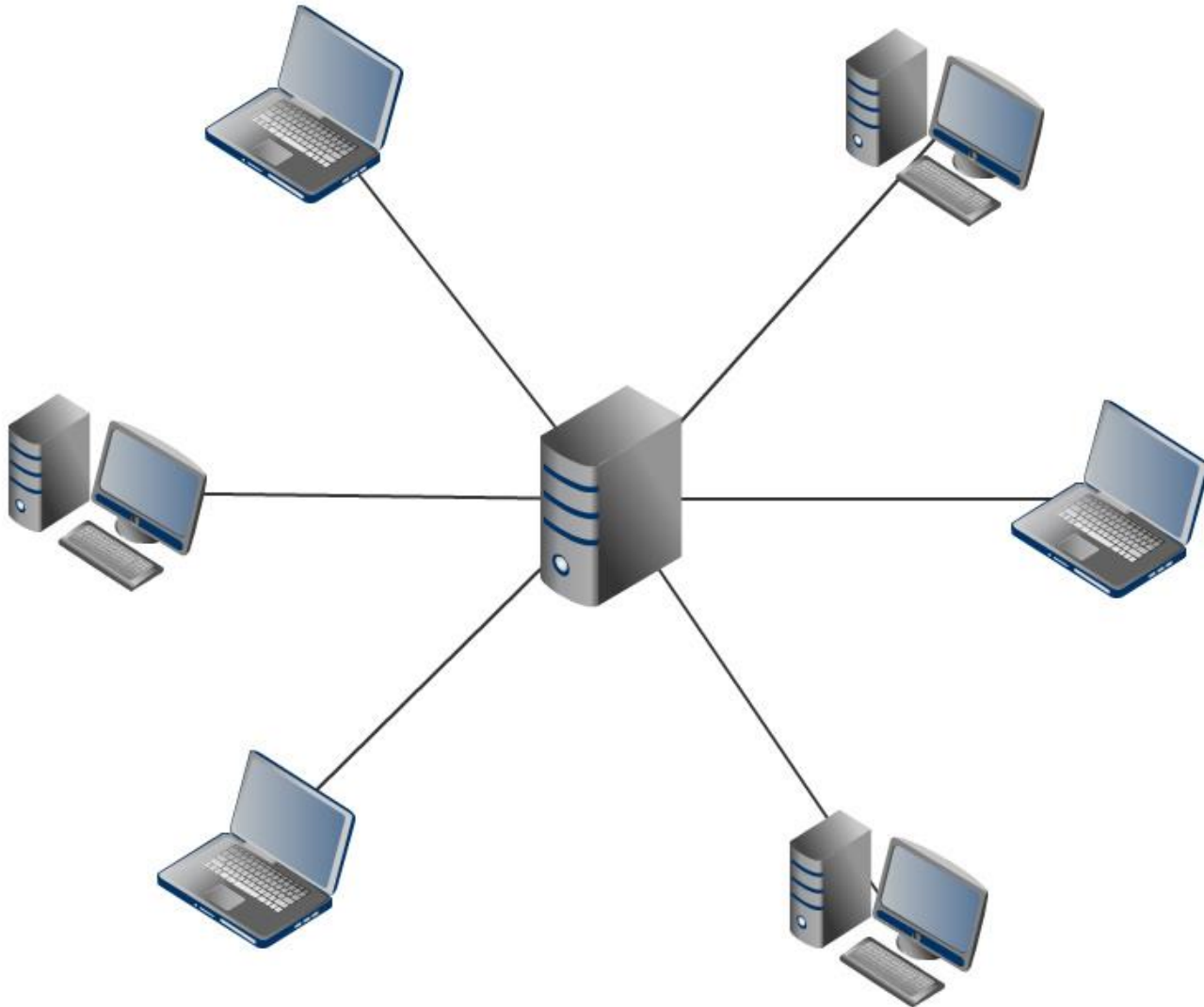
**Arquitetura dos sistemas de
controle de versão e um
pouco de história**

Arquiteturas

Cliente/Servidor

- 1986 – CVS
- 2001 – SVN

Cliente/Servidor



Arquitecturas

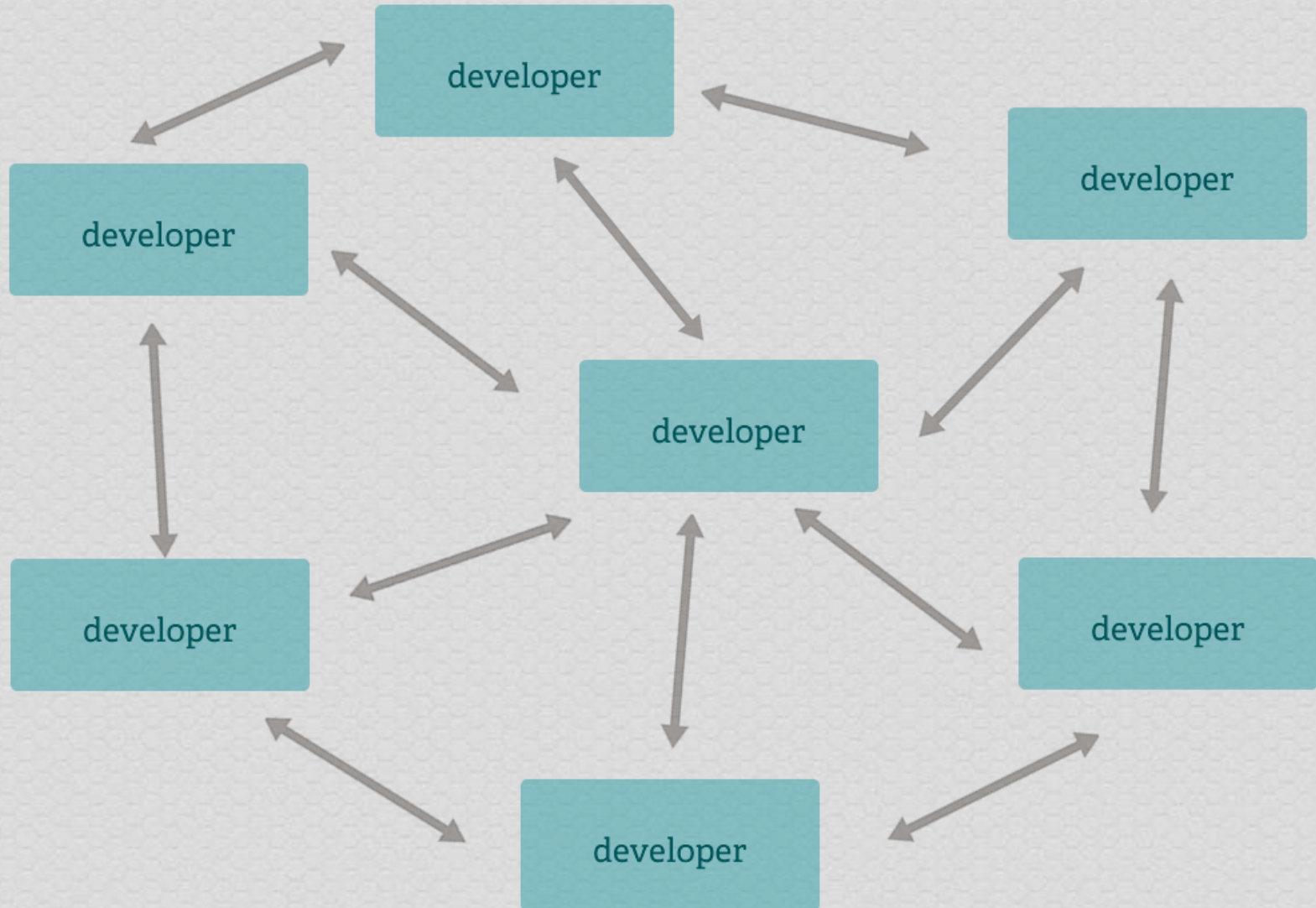
Cliente/Servidor

- 1986 – CVS
- 2001 – SVN

Distribuído

- 2005 – GIT

Distribuído



Porquê surgiu o GIT?



Critérios para criar o GIT



- 1) Tomar o CVS como um exemplo do que não fazer. Na dúvida, tomar exatamente a decisão contrária.
- 2) Suportar um fluxo distribuído
- 3) Várias firmes proteções contra corrompimento de arquivos, seja por acidente ou origem maldosa
- 4) Alta performance

Tempo de desenvolvimento

- 3 de Abril de 2005 – Projeto começou
- 6 de Abril de 2005 – Projeto foi anunciado
- 7 de Abril de 2005 – O Git já estava sendo usado para versionar o proprio Git **(4 dias)**
- 18 de Abril de 2005 – Já era possivel fazer merge entre os branches **(15 dias)**
- 29 de Abril de 2005 – Torvalds atingiu o seu objetivo de performance **(26 dias)**

Quem usa?

- Facebook
 - Android
 - Mozilla
 - Linkedin
 - Arch Linux
 - jQuery
 - PHP
 - Perl
 - Google
 - Twitter
 - ASP.NET
 - Netflix
 - PostgreSQL
 - Ruby on Rails
 - Fedora
- E vários outros...

Performance

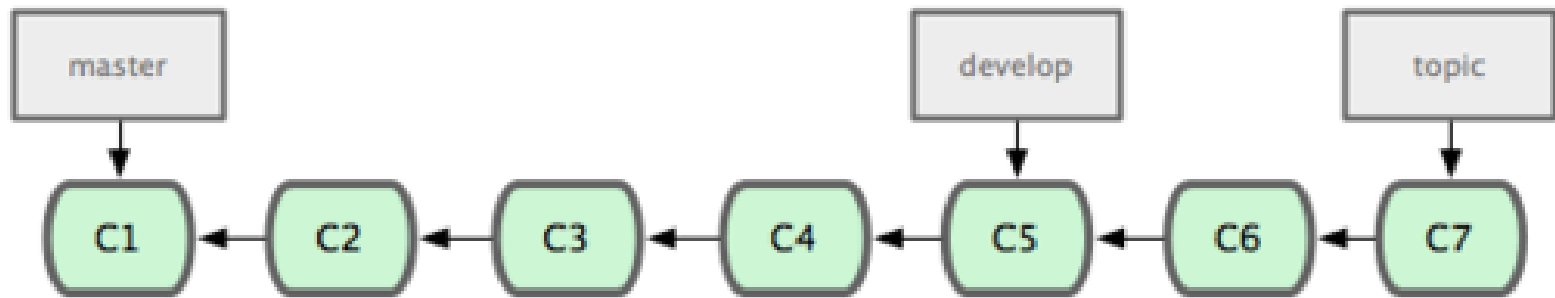
Fonte: <http://git-scm.com/about/small-and-fast>

Benchmarks

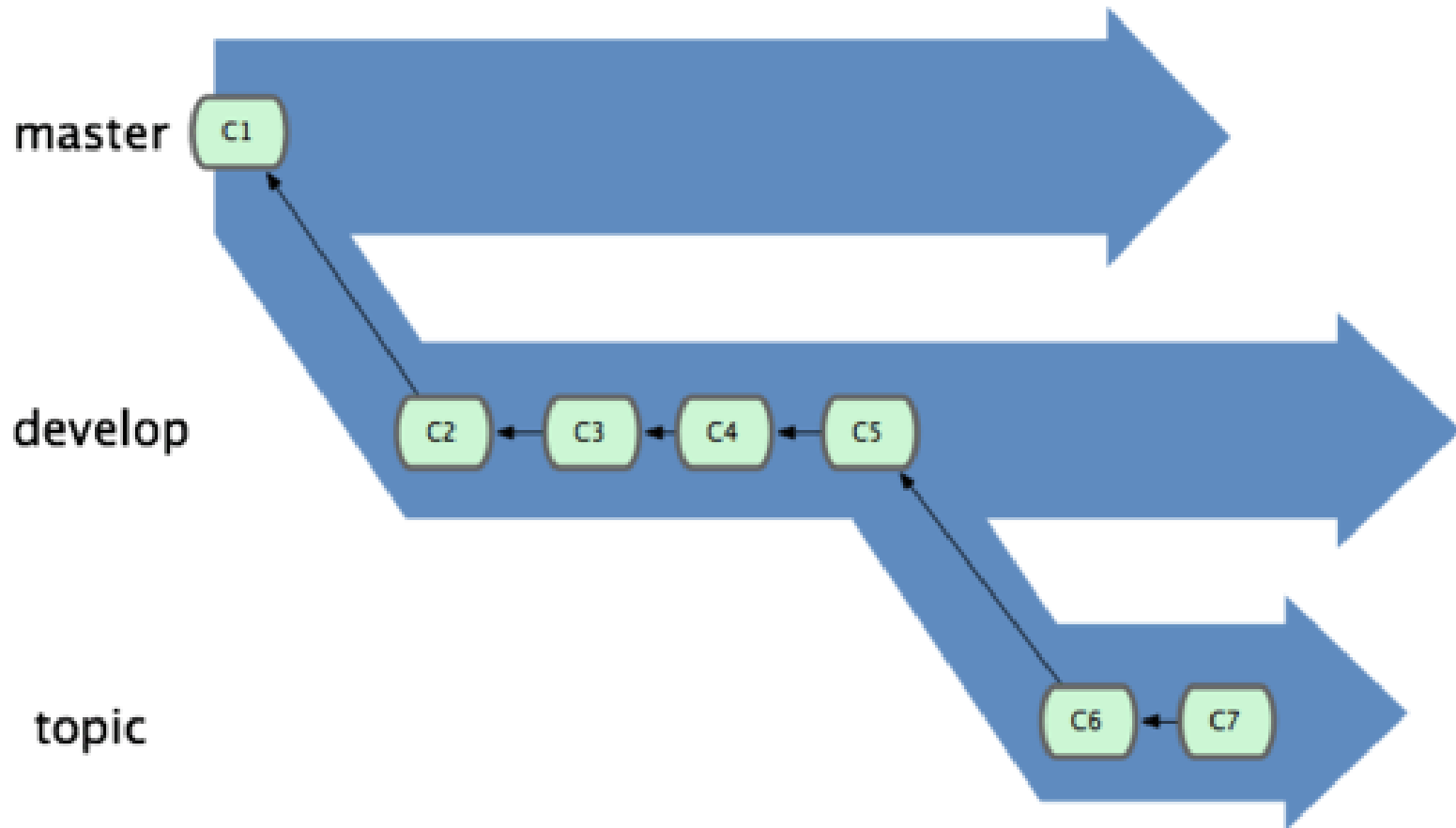
Let's see how common operations stack up against Subversion, a common centralized version control system that is similar to CVS or Perforce. *Smaller is faster.*



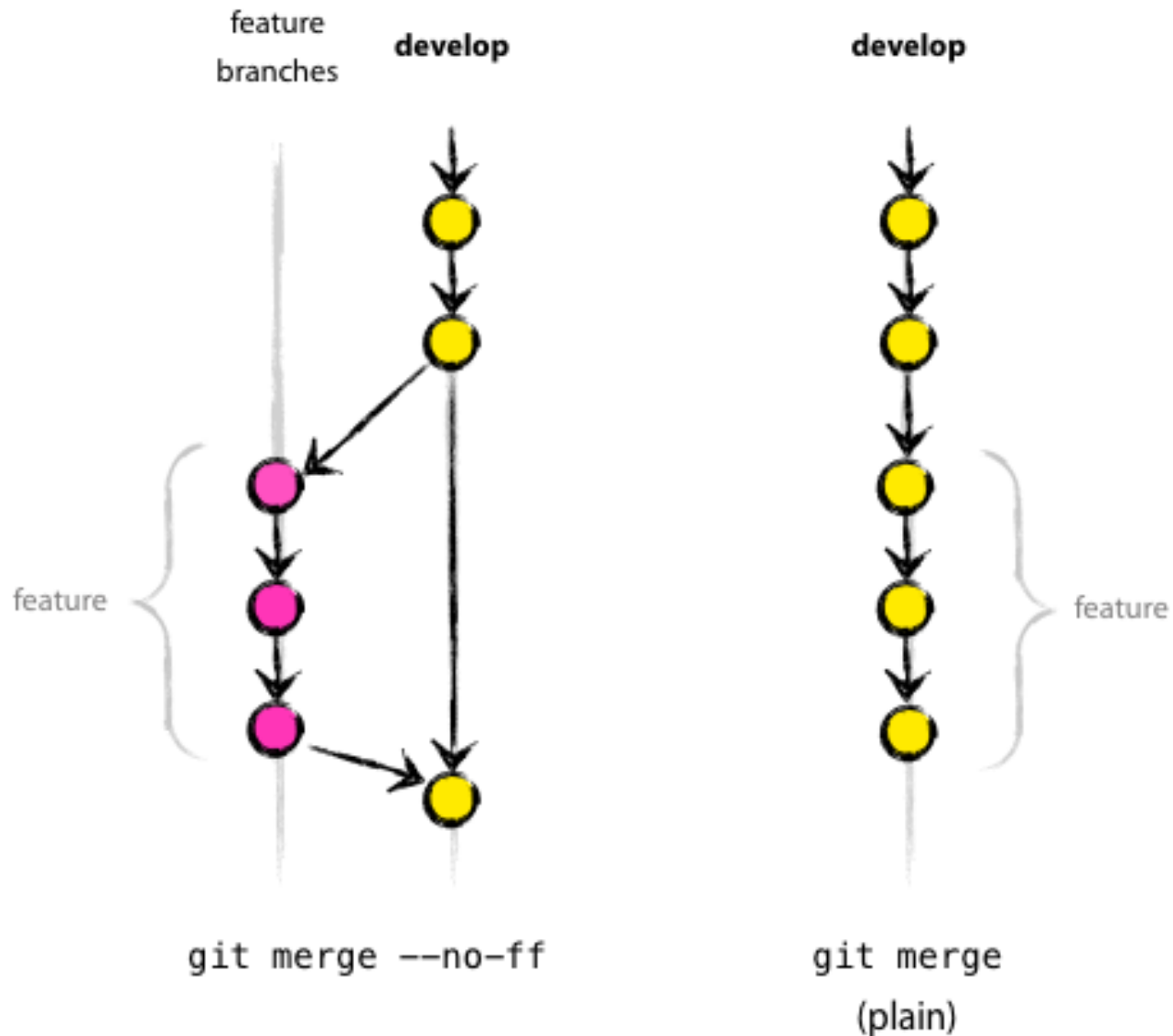
Branch



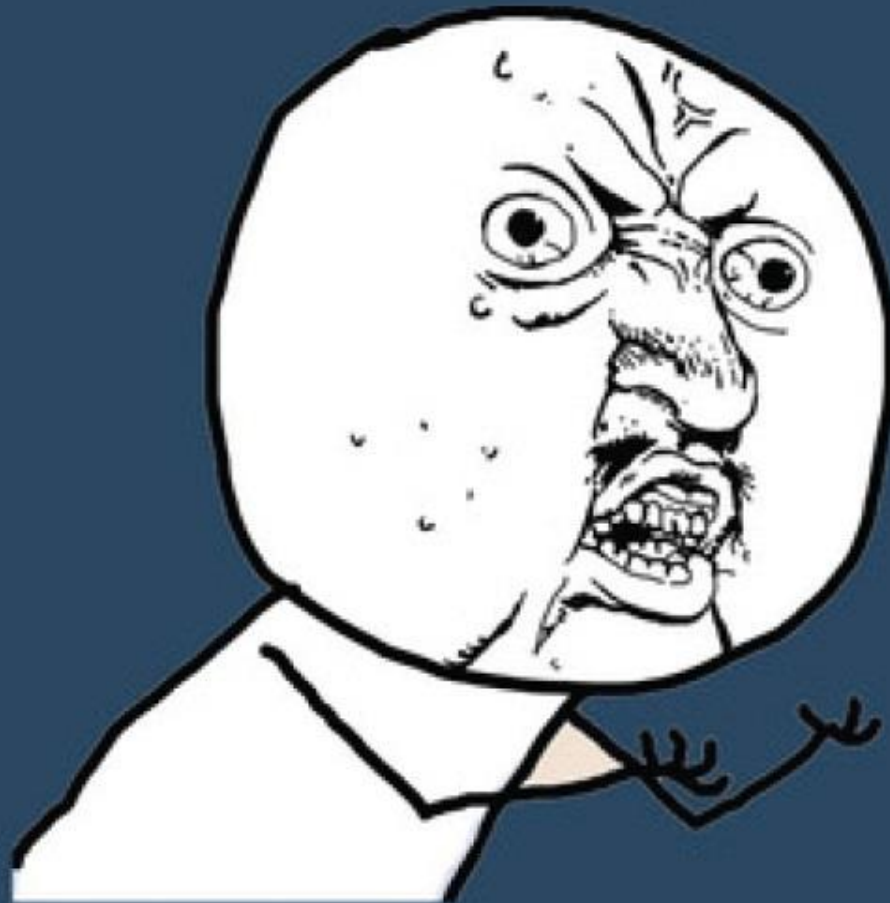
Branch



Merge



SVN

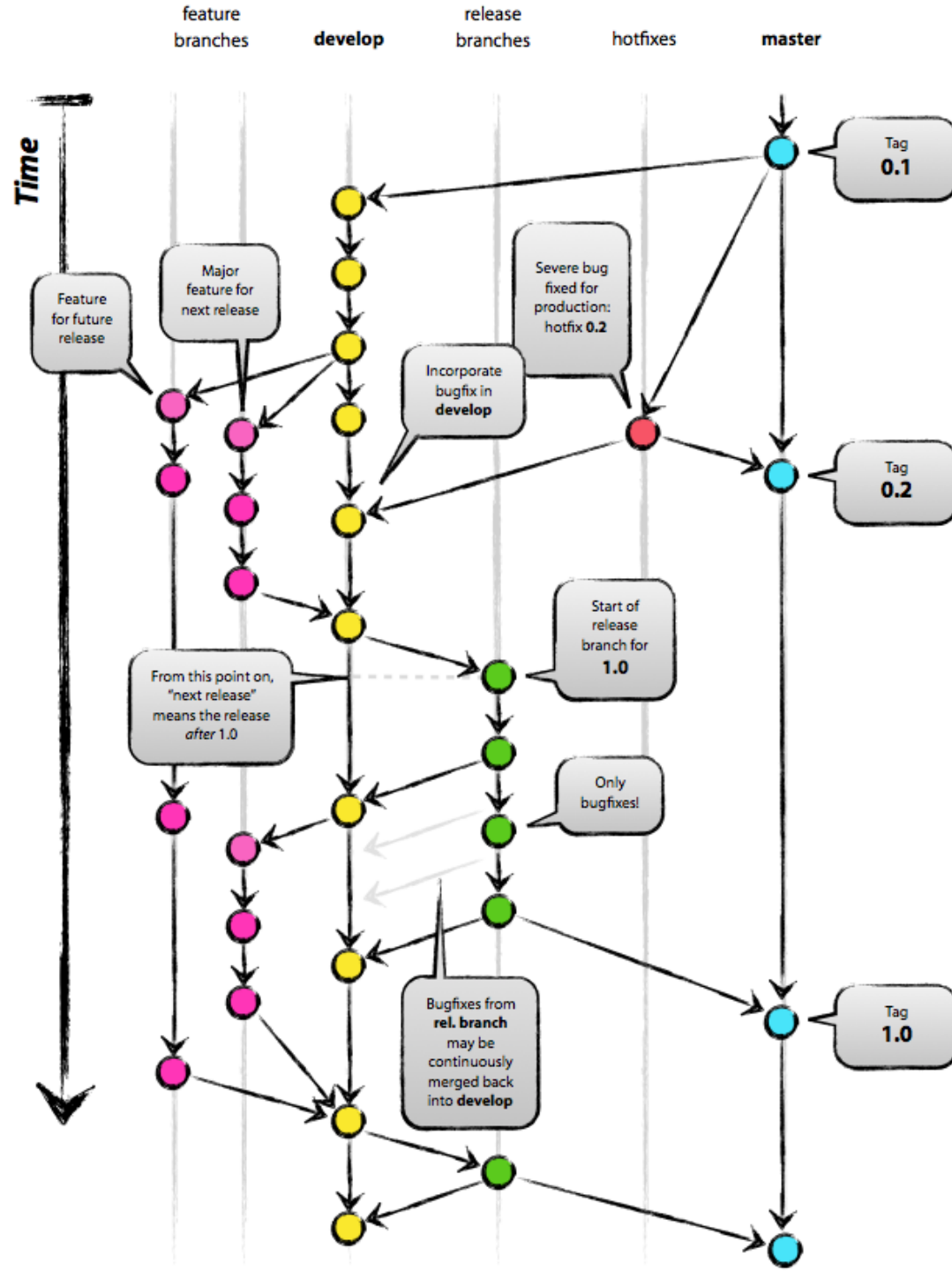


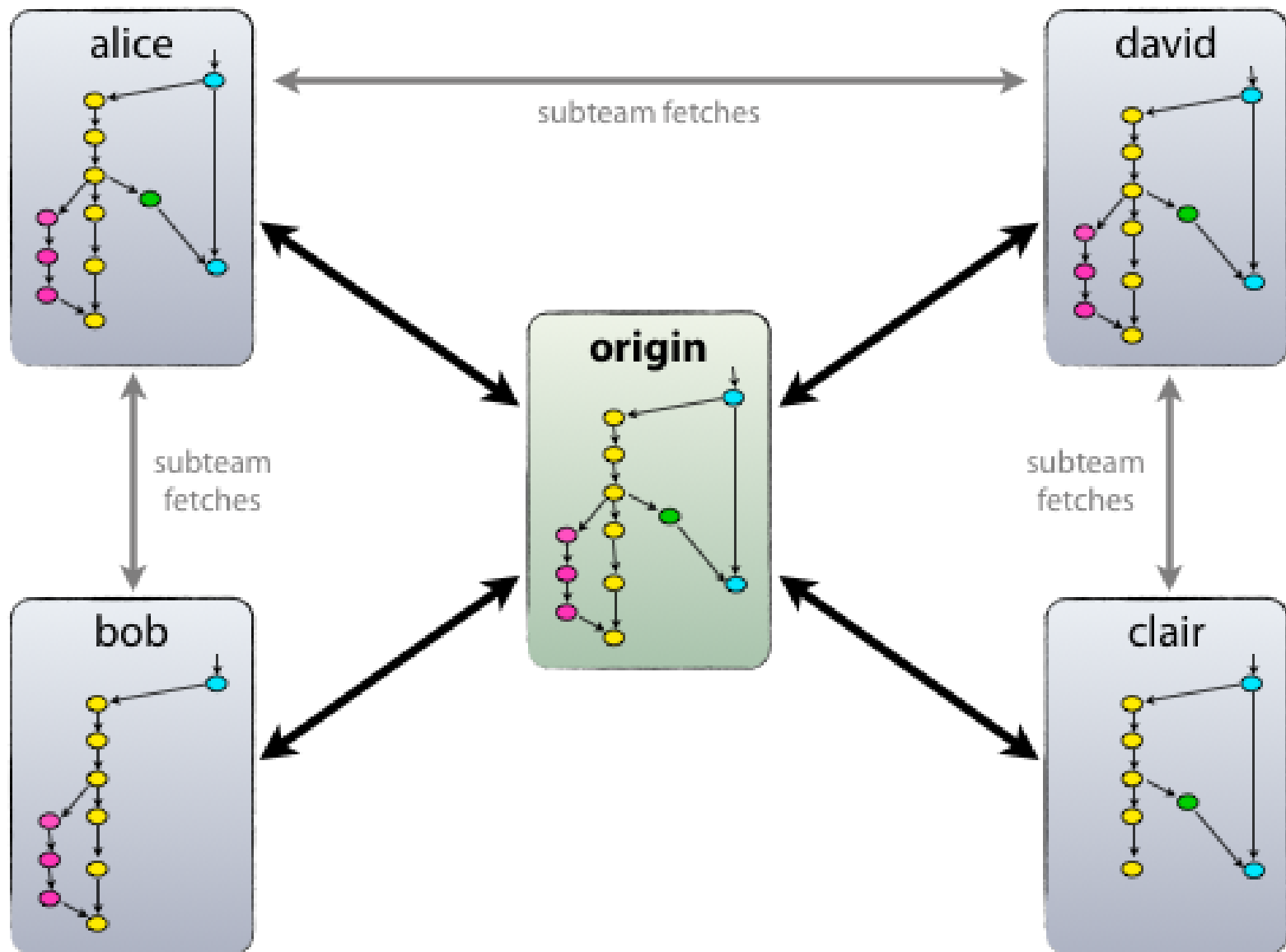
Y U CONFLICT

A photograph of Barack Obama, dressed in a dark suit, white shirt, and patterned tie, standing behind a wooden podium. He is looking down at a silver laptop on the podium, which has the Presidential Seal on its lid. His hands are raised in a gesture, palms facing forward. In the background, an American flag is visible to the right, and a gold decorative ornament hangs on the wall to the left.

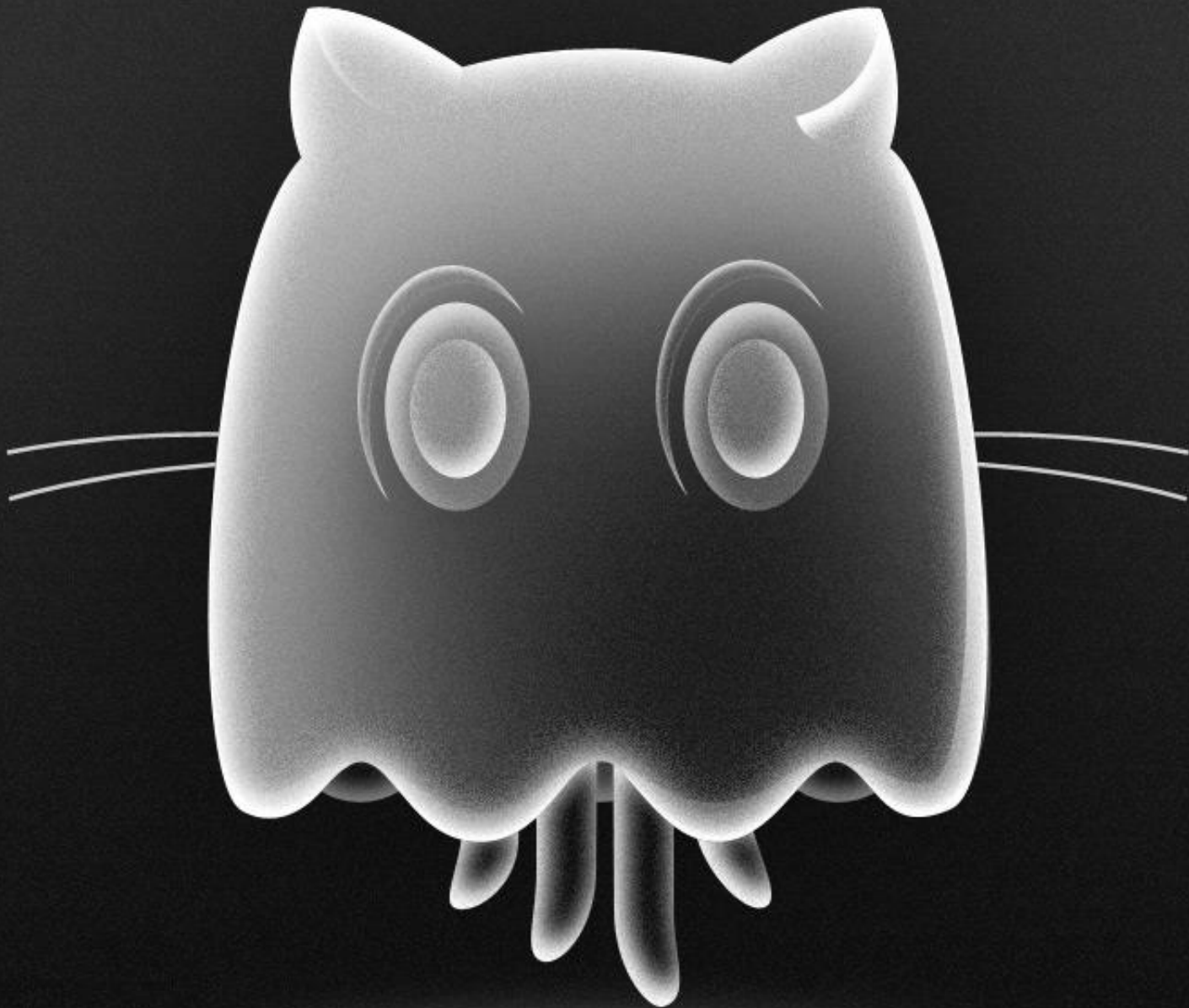
GIT REBASE

NO CONFLICTS!





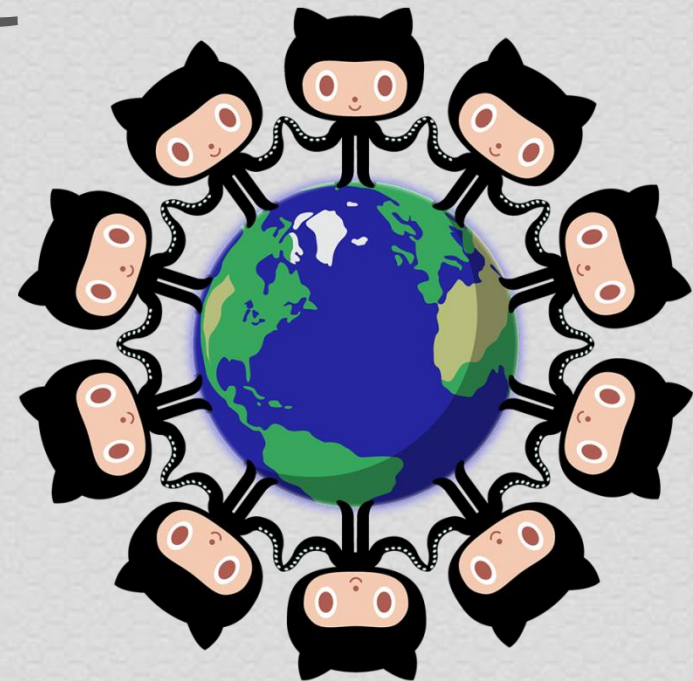
Stash



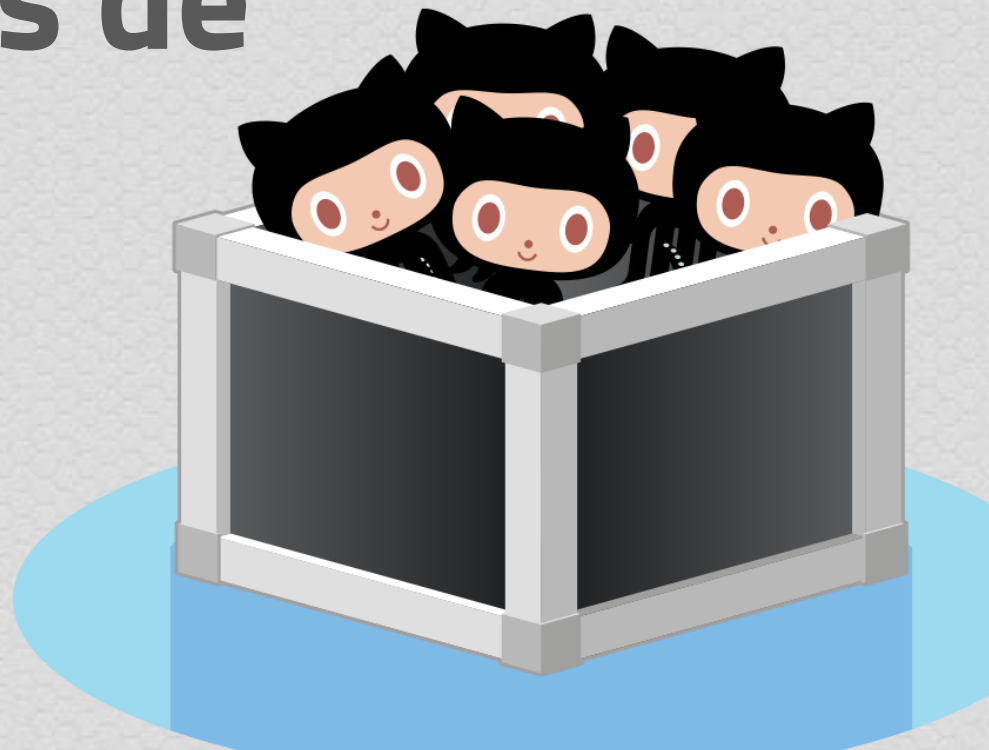


GitHub

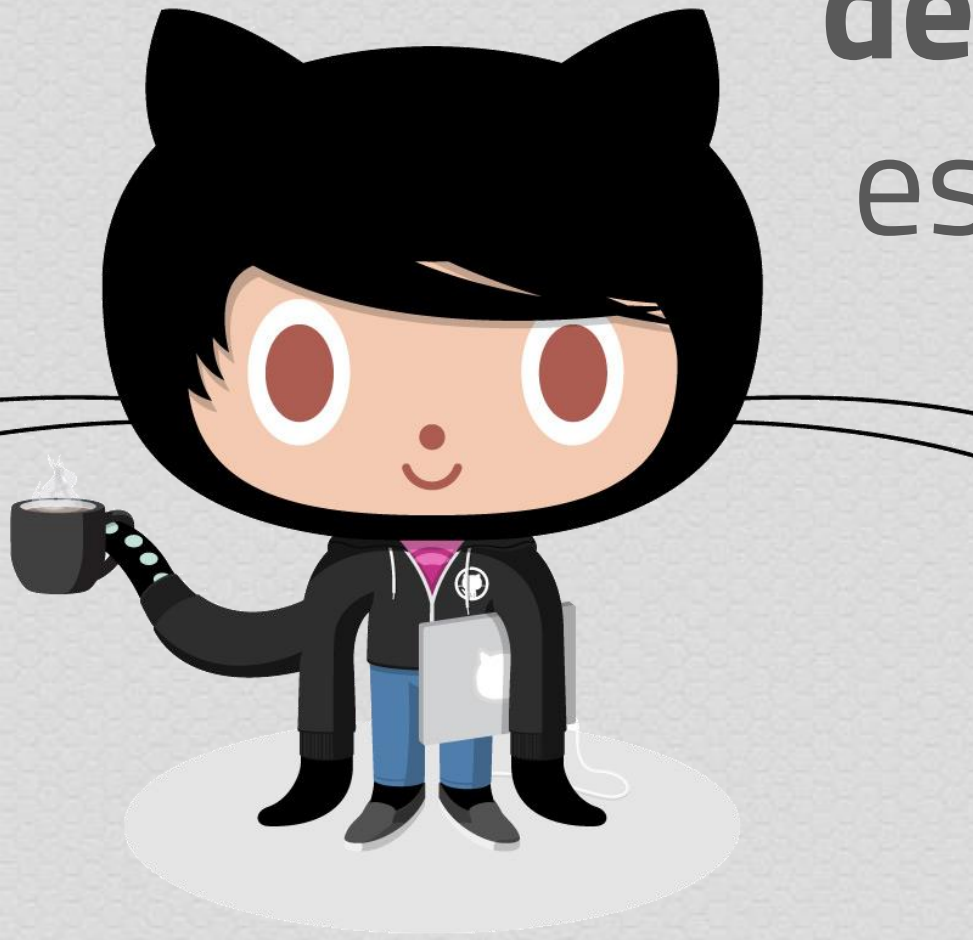
**GitHub é o melhor lugar
para compartilhar código
com amigos, colegas de
trabalho, colegas e
estranhos.**



Há **4,3 milhões** de **desenvolvedores** colaborando agora, através de **8,7 milhões** de **repositórios**



Os
desenvolvedores
estão no Github



[Explore](#) [Gist](#) [Blog](#) [Help](#)

guilhermefarias



Linus Torvalds

torvalds



Linux Foundation



Portland, OR



Joined on Sep 03, 2011

12k

followers

2

starred

0

following

Organizations

[Contributions](#)[Repositories](#)[Public Activity](#)

Unfollow



Popular repositories

**linux**

Linux kernel source tree

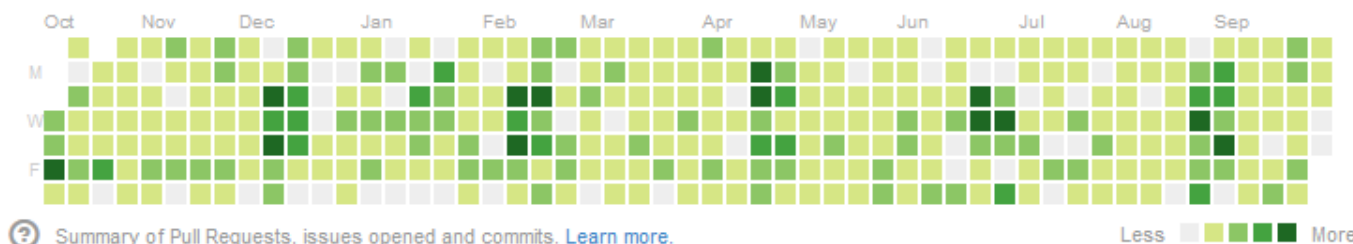
10,484 ★

**subsurface**

Multi-platform develop in C and Gtk

478 ★

Public contributions

**2,274 Total**

Oct 10 2012 - Oct 10 2013

Year of Contributions

20 days

November 18 - December 07

Longest Streak

0 days

Rock - Hard Place

Current Streak

Contribution Activity

Period: 1 Week ▾

26 Commits

[Pushed 1 commit to torvalds/subsurface](#) Oct 07[Pushed 25 commits to torvalds/linux](#) Oct 04 - Oct 08



Douglas Crockford
douglascrockford

✉ douglas@crockford.com

🌐 <http://www.CROCKFORD.com/>

🕒 Joined on May 02, 2010

4.9k

followers

13

starred

0

following

Organizations



📁 Contributions

📁 Repositories

📁 Public Activity

+👤 Follow



Popular repositories



JSON-js

JSON in JavaScript

3,716 ★



JSLint

The JavaScript Code Quality Tool

1,743 ★



JSON-java

A reference implementation of a JSON ...

851 ★



JSDev

A JavaScript Development Tool

388 ★



JSMin

JavaScript Minification Filter

329 ★

Public contributions



Summary of Pull Requests, issues opened and commits. [Learn more.](#)

Less More

27 Total

Oct 10 2012 - Oct 10 2013

Year of Contributions

3 days

November 17 - November 19

Longest Streak

0 days

Rock - Hard Place

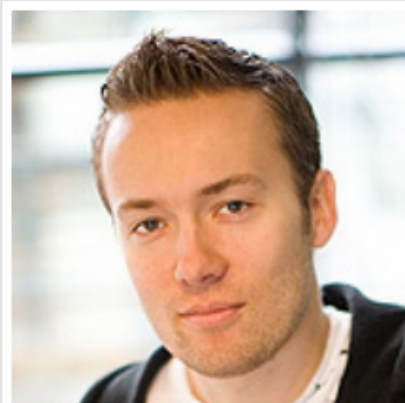
Current Streak

Contribution Activity

Period: 1 Week ▾

[Explore](#) [Gist](#) [Blog](#) [Help](#)

guilhermefarias



**David Heinemeier
Hansson**
dhh

37signals

Chicago, USA

david@loudthinking.com

<http://www.loudthinking.com>

Joined on Mar 10, 2008

4.5k

followers

29

starred

0

following

Organizations



Contributions

Repositories

Public Activity

Follow



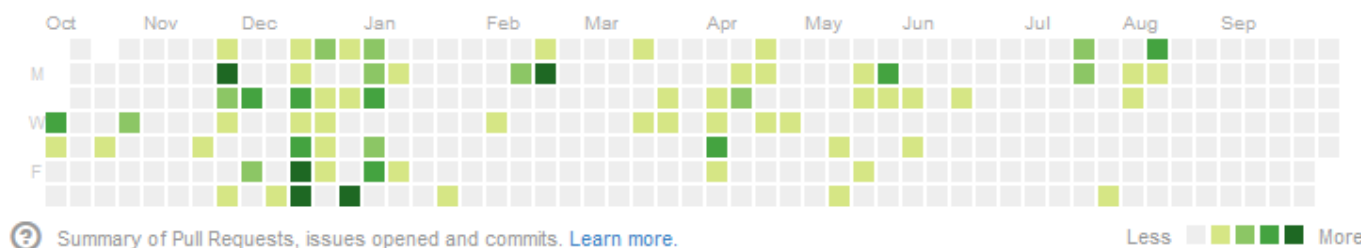
Popular repositories

tolk	506 ★
Tolk is a web interface for doing i18n tra...	
custom_configuration	159 ★
Custom configuration storage for Rails	
asset-hosting-with-minimum-	79 ★
Rails plugin for picking a non-ssl asset ...	
conductor	59 ★
delayed_job	28 ★
Database based asynchronously priorit...	

Repositories contributed to

rails/turbolinks	2,151 ★
Turbolinks makes following links in you...	
rails/rails	19,775 ★
Ruby on Rails	
rails/docrails	880 ★
Rails branch for quick doc fixes, please ...	
rails/commands	300 ★
Run Rake/Rails commands through the...	
rails/cache_digests	549 ★

Public contributions

**283 Total**

Oct 10 2012 - Oct 10 2013

Year of Contributions

9 days

December 15 - December 23

Longest Streak

0 days

Rock - Hard Place

Current Streak

Contribution Activity

Period: 1 Week

E mais outros **4,3 milhões** de desenvolvedores

As empresas
estão no
Github





Twitter, Inc. twitter

San Francisco, CA

<http://twitter.com/twitteross>

Joined on Jan 29, 2009

100

public repos

192

members

Repositories

Members

Find a repository...

Search

All Sources Forks Mirrors



summingbird

Streaming MapReduce with Scalding and Storm

Last updated 26 minutes ago

Scala ★ 509 62



algebird

Abstract Algebra for Scala

Last updated 30 minutes ago

Scala ★ 333 61



util

Wonderful reusable code from Twitter

Last updated 2 hours ago

Scala ★ 634 118



ambrose

A platform for visualization and real-time monitoring of data workflows

Last updated 6 hours ago

Java ★ 700 96



joauth

A Scala library for authenticating HTTP Requests using OAuth

Last updated 18 hours ago

Scala ★ 65 8



storehaus

Scala ★ 150 14



Google
google

<http://developers.google.com/>

Joined on Jan 17, 2012

78

public repos

247

members

Repositories

Members

Search

All Sources Forks Mirrors



pepper.js

Last updated 26 minutes ago

JavaScript ★ 8 1



paco

This is the Paco behavioral science mobile research platform

Last updated 34 minutes ago

Java ★ 33 9



devtoolsExtended

devtoolsExtended: Extended Chrome Devtools in a Chrome Extension

Last updated a day ago

JavaScript ★ 15 2



qpp

Querypoint Debugging Prototype

Last updated a day ago

JavaScript ★ 28 3



google-api-ruby-client

Last updated a day ago

Ruby ★ 327 72



testRunner

testRunner

JavaScript ★ 2 1

[Explore](#) [Gist](#) [Blog](#) [Help](#)

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Facebook
facebook

Menlo Park, CA

<http://facebook.com/opensource/>

Joined on Apr 01, 2009

95

public repos

111

members

Repositories

Members

[All](#) [Sources](#) [Forks](#) [Mirrors](#)**php-webdriver**

thin php client for webdriver.

Last updated 27 minutes ago

PHP

★ 467

🔗 176

**phabricator**

Open software engineering platform and fun adventure game

Last updated 38 minutes ago

PHP

★ 2,625

🔗 432

**facebook-php-sdk**

Facebook PHP SDK

Last updated an hour ago

PHP

★ 2,845

🔗 2,247

**hiphop-php**

Virtual Machine, Runtime, and JIT for PHP

Last updated 3 hours ago

C++

★ 5,960

🔗 910

**libphenom**

library of awesome for C apps

Last updated 5 hours ago

C

★ 721

🔗 133

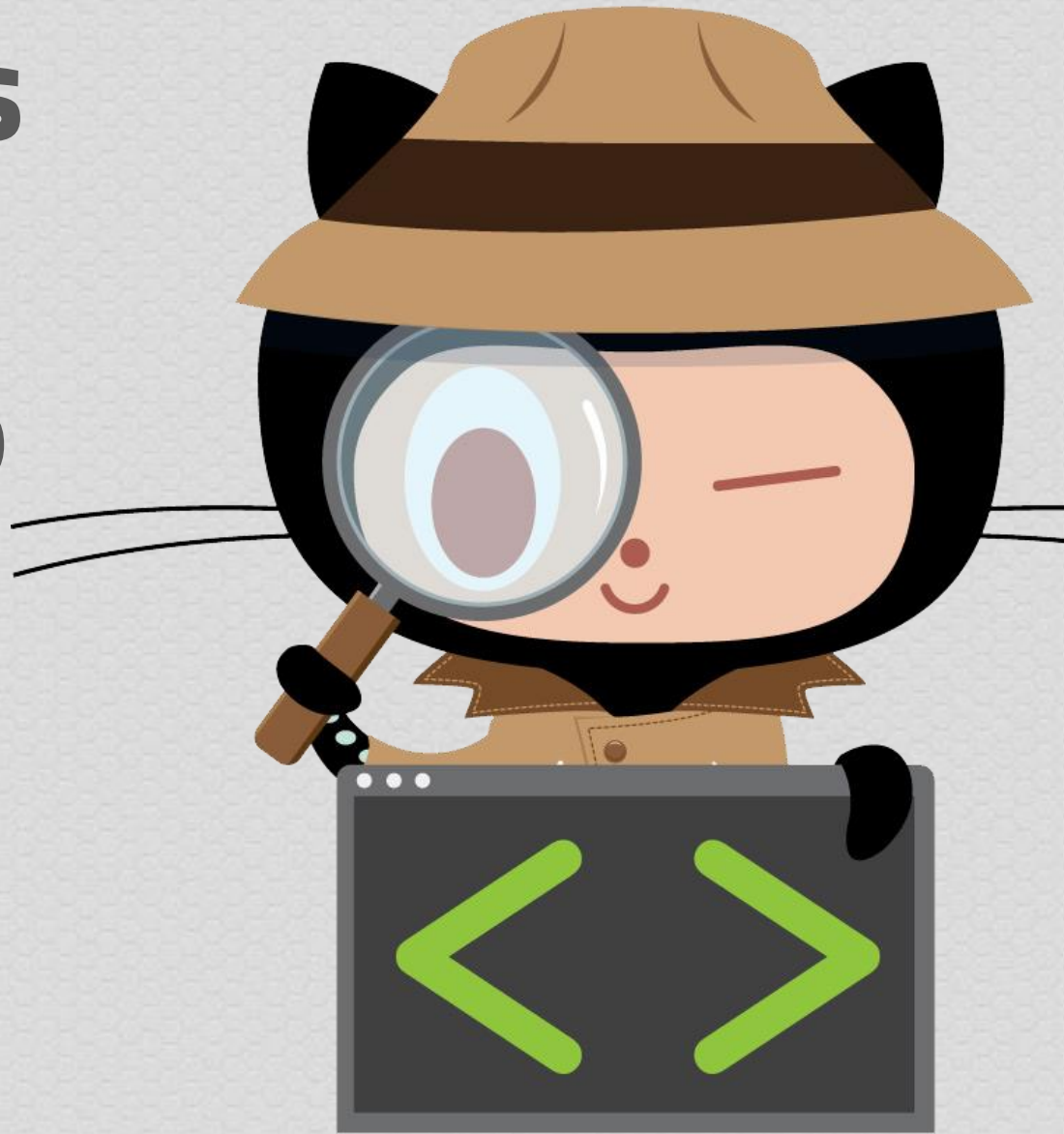
**arcanist**

PHP

★ 205

🔗 87

As empresas
estão
contratando
através do
Github





This repository ▾

Search or type a command

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globocom / IWantToWorkAtGloboCom

Watch ▾

110

Star

268

Fork

300

Você é web dev? Quer trabalhar no maior portal da América Latina? Esse repositório é pra você

<http://www.globo.com>

66 commits

1 branch

0 releases

14 contributors



branch: master ▾

IWantToWorkAtGloboCom /

Ajustando descritivo das vagas de Webmedia



macaubas authored a month ago

latest commit 016b5df85d

[README.mkd](#)

Ajustando descritivo das vagas de Webmedia

a month ago

[cv.mkd](#)

ajustando layout do texto helper no cv.mkd

a year ago

[README.mkd](#)

Por que trabalhar na globo.com?

"Por que você gostaria de trabalhar na globo.com?" - essa é a pergunta clássica nos processos de seleção de qualquer empresa, certo? Então, deixa a gente te ajudar a respondê-la quando chegar a hora da sua entrevista. Aí vai:

Líder de Mercado em todos os

Code

Issues

2

Pull Requests

2

Wiki

Pulse

Graphs

Network

HTTPS clone URL

<https://github.com>

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or [Subversion](#).

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Location

 Filter by city, state, zip code or country

☐ Full Time Only

Featured Jobs

Head of Web Development

Livestream – Full Time

New York, New York

2013-10-10 19:58:14 UTC

Senior Software Engineer, Full Stack

Move Inc – Full Time

San Jose, Ca

2013-10-10 20:19:49 UTC

Senior Software Engineer (s), Game Server

DeNA – Full Time

San Francisco

2013-10-10 23:00:33 UTC

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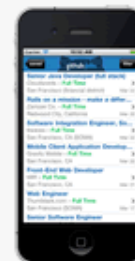


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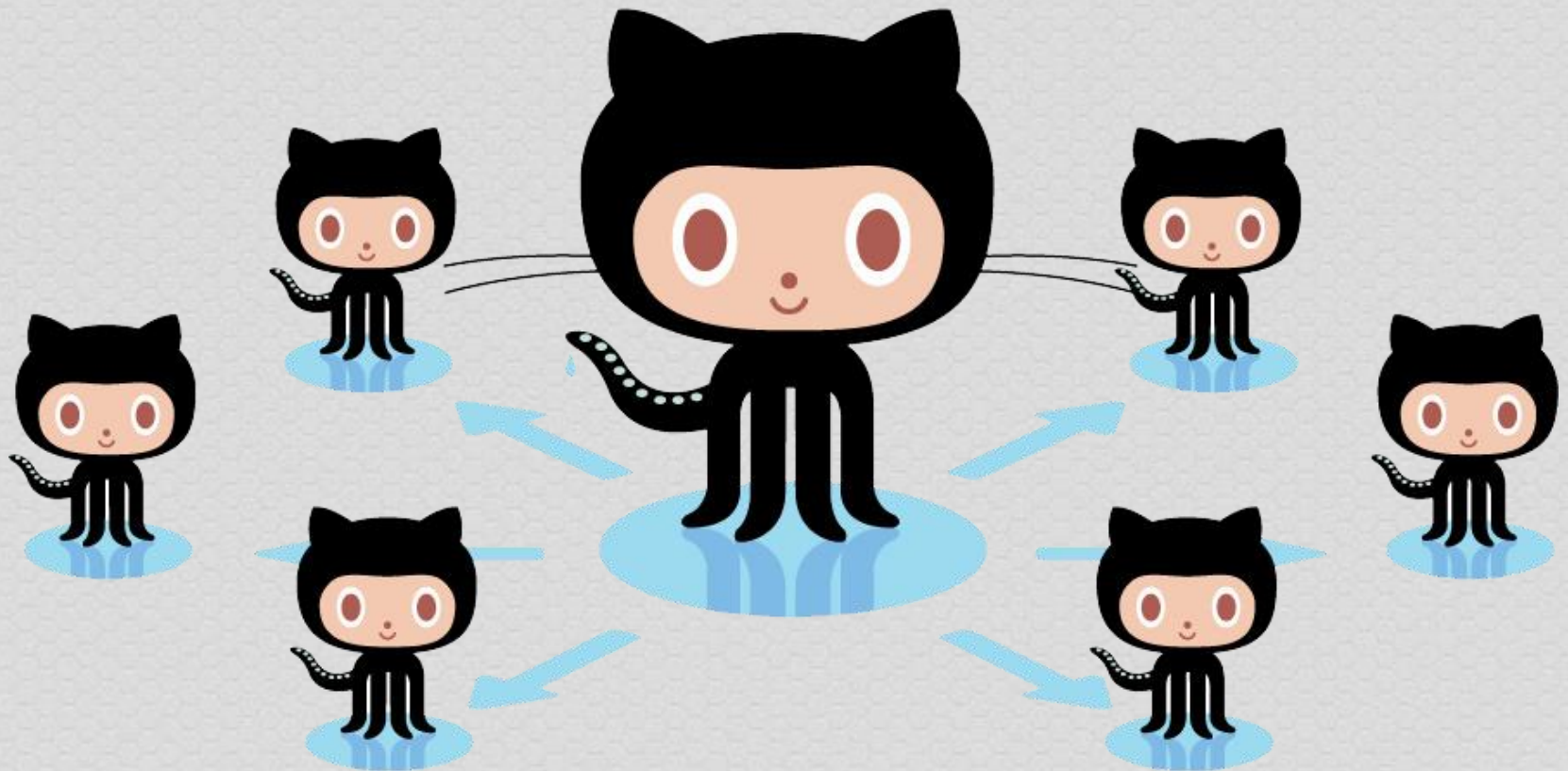


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Contribua com projetos open source





This repository ▾

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guilhermefarias



gruntjs / grunt



Watch ▾

465



Star

6,610



Fork

711

[Browse Issues](#)[Milestones](#)[New Issue](#)

Everyone's Issues

55

55 Open

882 Closed

Sort: Newest ▾

1

2

Created by you

0

Mentioning you

0

No milestone selected



Labels

api 2

breaking 4

cli 1

dependency 2

documentation 1

enhancement 18

feature 8

fs 6

gruntjs "org" 3

input / output 2

needs discussion 20

needs research (help?) 2

prolog 6

Change location of the .grunt folder [question](#) #938Opened by [robianmcd](#) 2 hours ago **More CLI options and pre-Gruntfile initialization through .gruntrc file(s).** #934[needs discussion](#)Opened by [cowboy](#) 3 days ago **Built with Grunt mini-badge** [gruntjs "org"](#) #933Opened by [dylang](#) 4 days ago 4 comments **Enabling case insensitive file handling by default** [enhancement](#) [fs](#) #932Opened by [colinbowern](#) 6 days ago 5 comments **Avoid explicitly 'undefined' description tasks in `grunt --help` output.** #930[cli](#) [enhancement](#) [tasks](#)Opened by [opichals](#) 6 days ago 3 comments **Grunt tasks' discovery, help and information.** [needs discussion](#) [question](#) #929Opened by [dnutels](#) 7 days ago **Running Grunt on Windows and Fireshell** [question](#) #928Opened by [beardyco](#) 7 days ago 1 comment **Make task file compilation more intelligent.** [needs discussion](#) [needs research \(help?\)](#) #927Opened by [cowboy](#) 9 days ago 4 comments **Promoting Grunt?** [needs discussion](#) [gruntjs "org"](#) #926Opened by [cowboy](#) 9 days ago 81 comments



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Search or type a command



Explore Gist Blog Help



guilhermefarias



mozilla / mozilla-central

Watch ▾ 58

★ Star 318

Fork 337

Contributors

Commits

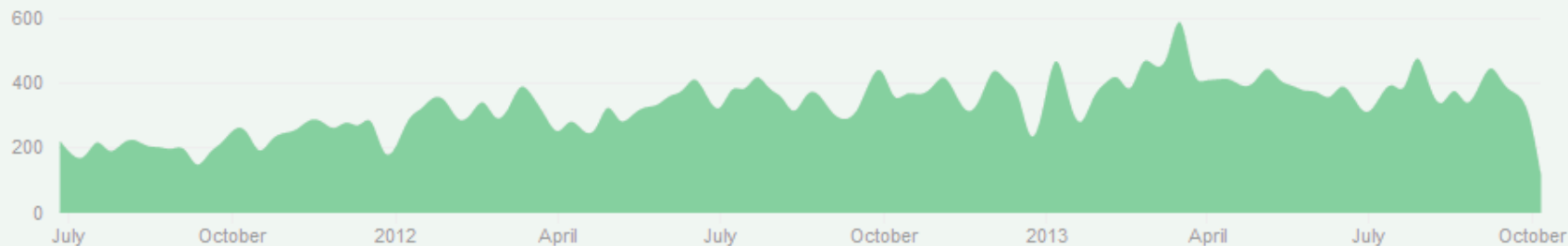
Code Frequency

Punchcard

June 25th 2011 - October 5th 2013

Commits to master, excluding merge commits

Contribution Type: Commits ▾



ehsan

#1

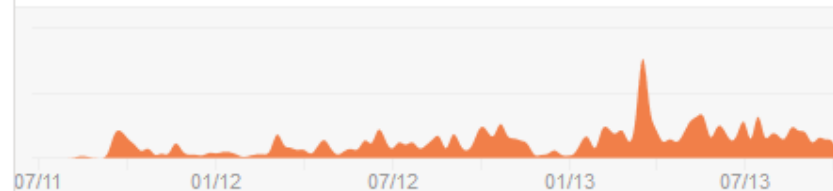
1,738 commits / 416,896 ++ / 262,617 --



bholley

#2

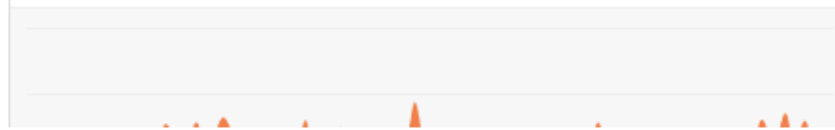
1,443 commits / 352,370 ++ / 370,408 --



Ms2ger

#3

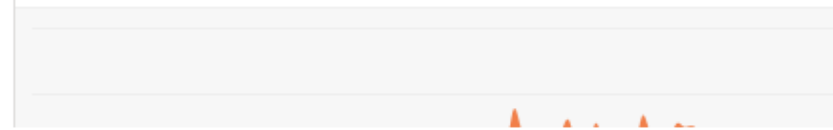
1,413 commits / 235,016 ++ / 282,792 --



bzbarsky

#4

1,350 commits / 106,503 ++ / 64,219 --





Showing 11 changed files with 106 additions and 35 deletions.

Show Diff Stats

11

arch/x86/kernel/cpu/perf_event.c

View file @ 0e7a3ed

```

...    ...    @@ -1888,10 +1888,7 @@ void arch_perf_update_userpage(struct perf_event_mmap_page *userpg, u64 now)
1888    1888        userpg->cap_user_rdpmc = x86_pmu.attr_rdpmc;
1889    1889        userpg->pmc_width = x86_pmu.cntval_bits;
1890    1890
1891        - if (!boot_cpu_has(X86_FEATURE_CONSTANT_TSC))
1892        -     return;
1893        -
1894        - if (!boot_cpu_has(X86_FEATURE_NONSTOP_TSC))
1891    1891    + if (!sched_clock_stable)
1895    1892        return;
1896    1893
1897    1894        userpg->cap_user_time = 1;
...    ...    @@ -1899,10 +1896,8 @@ void arch_perf_update_userpage(struct perf_event_mmap_page *userpg, u64 now)
1899    1896        userpg->time_shift = CYC2NS_SCALE_FACTOR;
1900    1897        userpg->time_offset = this_cpu_read(cyc2ns_offset) - now;
1901    1898
1902        - if (sched_clock_stable && !check_tsc_disabled()) {
1903        -     userpg->cap_user_time_zero = 1;
1904        -     userpg->time_zero = this_cpu_read(cyc2ns_offset);
1905        - }
1899    1899    + userpg->cap_user_time_zero = 1;
1900    1900    + userpg->time_zero = this_cpu_read(cyc2ns_offset);
1906    1901    }
1907    1902
1908    1903    /*

```

24

include/linux/perf_event.h

View file @ 0e7a3ed

```

@@ -294,9 +294,31 @@ struct swevent blist {


```

Diff de Imagens

Image View Mode Demo

[Browse code](#)

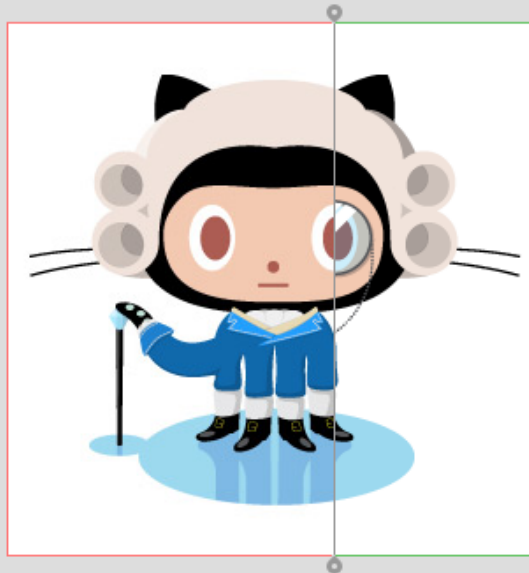
master

 **cameronmcefee** authored 3 years ago 1 parent [8bf009f](#) commit [8e95f70c9c47168305970e91021072673d7cdad8](#)

Showing 4 changed files with 0 additions and 0 deletions.

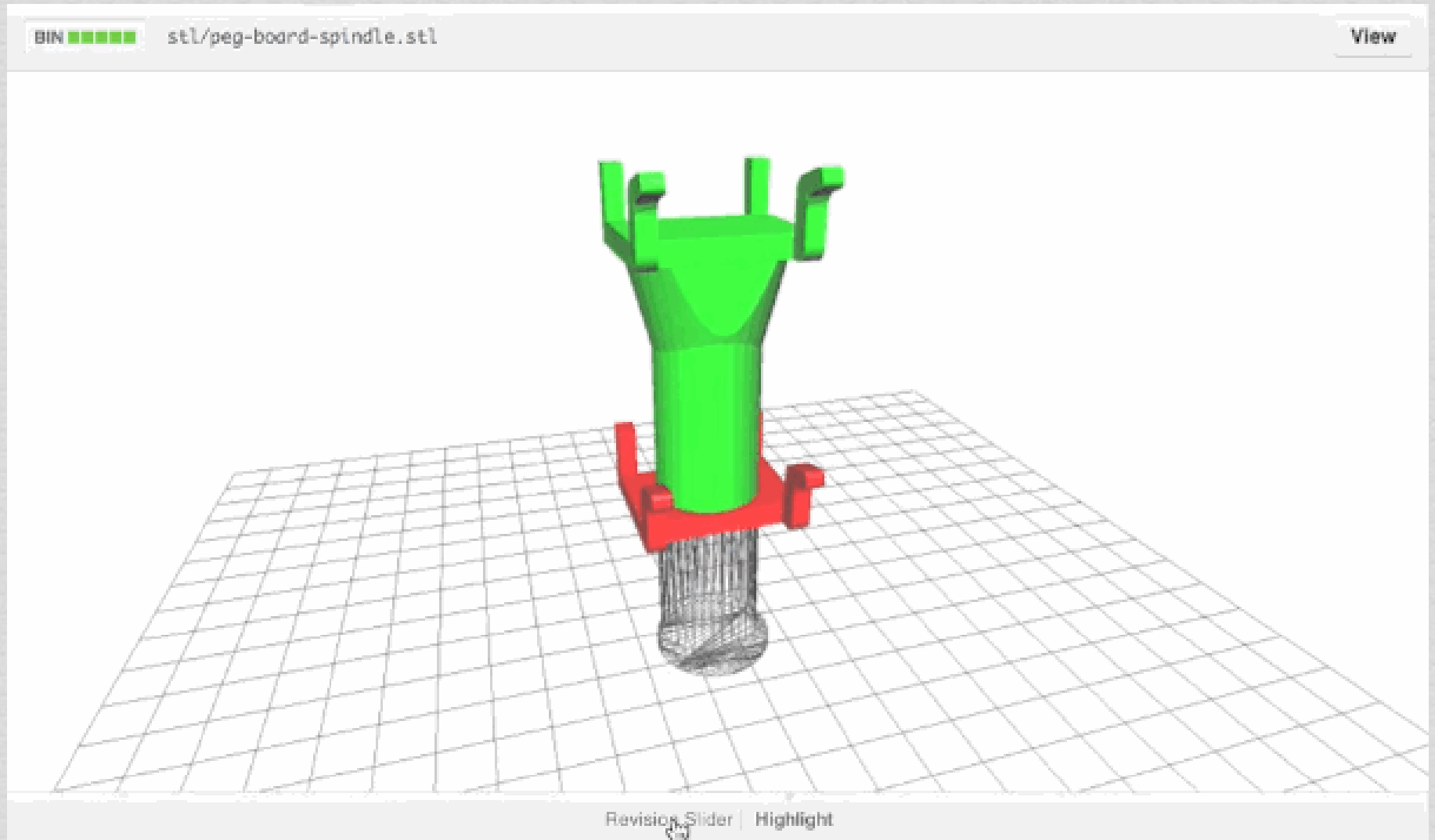
[Show Diff Stats](#)

BIN 1_normal.jpg

[View file @ 8e95f70](#)

2-up | Swipe | Onion Skin | Difference

Diff 3D





Comece
agora
mesmo!

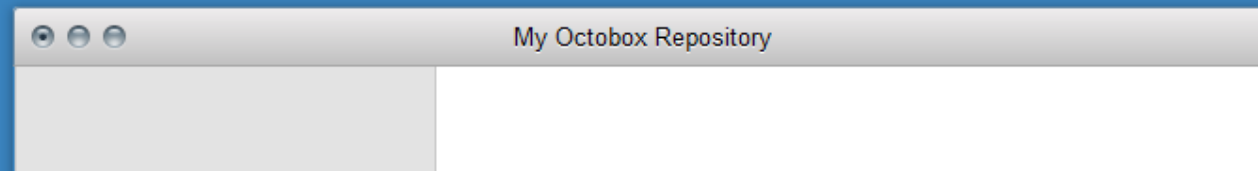
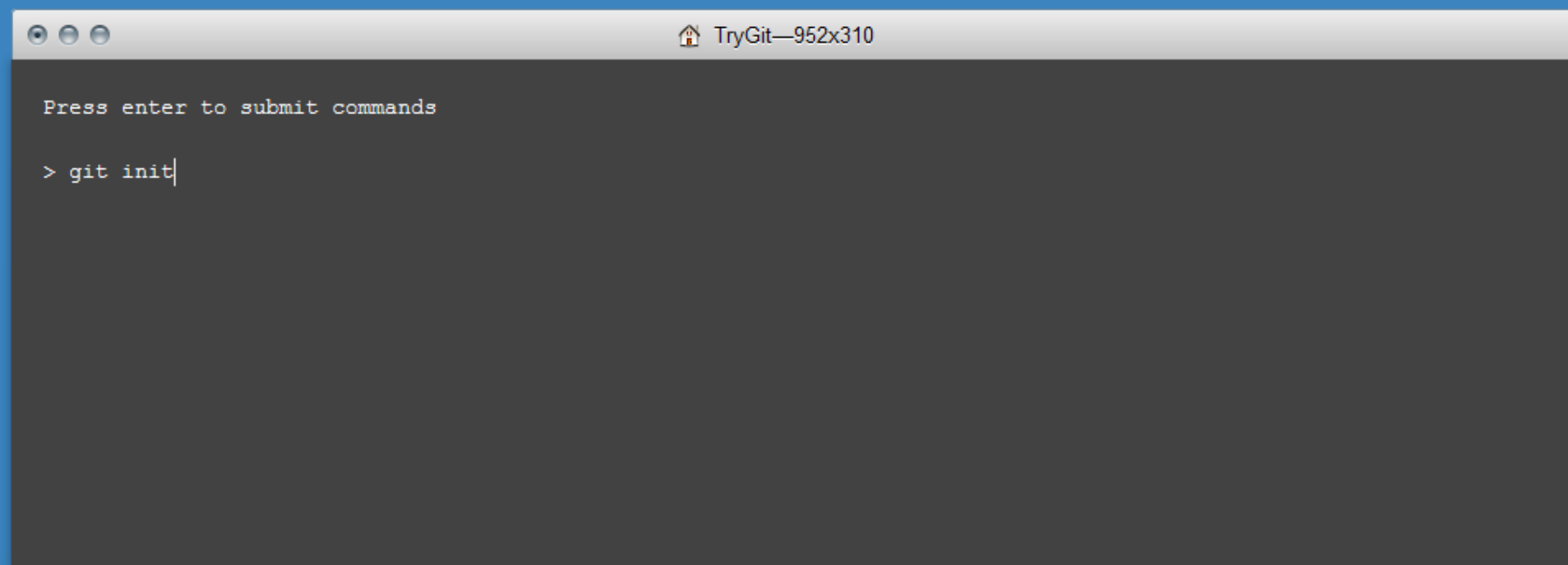
1.1 . Got 15 minutes and want to learn Git?

Git allows groups of people to work on the same documents (often code) at the same time, and without stepping on each other's toes. It's a distributed version control system.

Our terminal prompt below is currently in an octobox directory. To initialize a Git repository here, type the following command:

➔ `git init`

tryGit



Advice

Directory:
A folder used for storing multiple files.



Bring GitHub to work.

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The screenshot displays the GitHub Enterprise web interface. At the top, there's a dark navigation bar with the GitHub logo, a search bar labeled 'This repository', and links for 'Explore', 'Gist', and 'Help'. On the right of this bar are user avatars and icons for repository actions. Below the navigation bar, the repository path 'github / enterprise' is shown, along with 'Watch' (24), 'Star' (6), and 'Fork' (0) buttons. The main heading is 'Documentation and vision for GitHub Enterprise — Edit'. Below this, statistics are listed: 215 commits, 26 branches, 0 releases, and 8 contributors. A 'branch: master' dropdown is visible. The repository content shows a file tree with 'docs' and 'vision' folders. A commit by 'calavera' from 22 days ago is highlighted. In the bottom right corner, a terminal window is open, displaying a green ASCII art logo of the GitHub octocat.



local

repositories

github

tclem

github

libgit2

libgit2sharp

+ add

refresh

⚙

FILTER REPOSITORIES

libgit2/GitForDelphi

libgit2/libgit2 [CLONE](#)

libgit2/libgit2-backends

libgit2/libgit2.github.com →

libgit2/libgit2sharp

libgit2/libgit2sharp

libgit2/libgit2sharp

libgit2/node-gitteh

libgit2/objective-git

README.md

libgit2 - the Git linkable library

build status passing

libgit2 is a portable, pure C implementation of the Git core method
linkable library with a solid API, allowing you to write native speed
any language with bindings.

libgit2 is licensed under a **very permissive license** (GPLv2 with a s
This basically means that you can link it (unmodified) with any kind
to release its source code.

- Mailing list: libgit2@librelist.org
- Archives: <http://librelist.com/browser/libgit2/>
- Website: <http://libgit2.github.com>

Introducing GitHub for Windows

Develop on Windows, share on GitHub.

✓ Clone Repositories

✓ Browse History

✓ Commit Changes

✓ Branch Code

✓ Share on GitHub.com

The easiest way to use Git on Windows. **Period.**

[sync](#) [development](#) ⚙

branches

MANAGE

config

libgit2/libgit2

[CLONE](#)

Introducing GitHub for Mac

The easiest way to share your code with GitHub

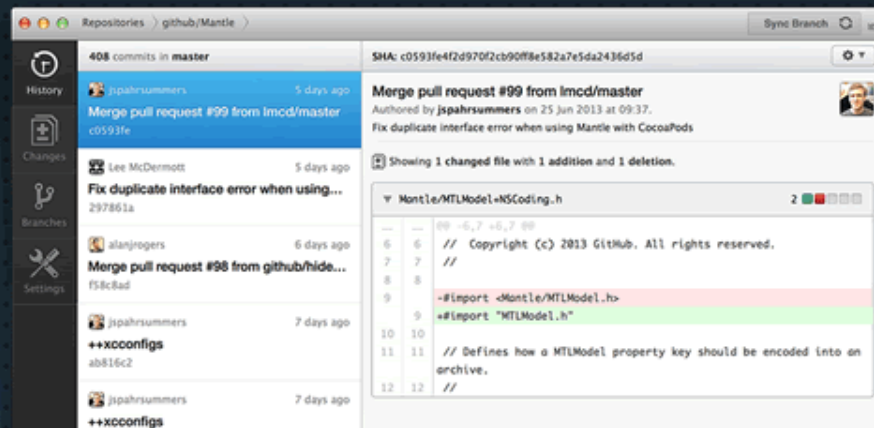
Download GitHub for Mac

Free to download, free to use

Overview

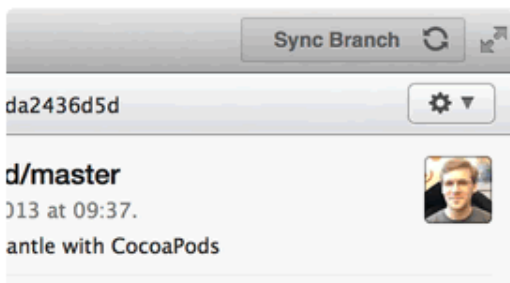
Help

Release Notes

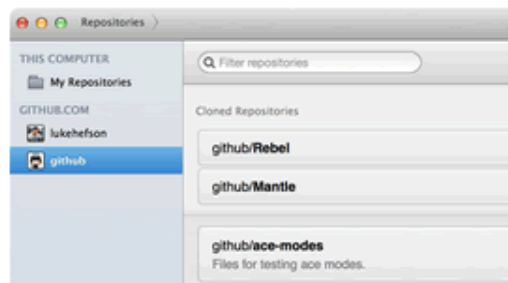


- ✓ Clone repositories
- ✓ Browse history
- ✓ Commit changes
- ✓ Branch code
- ✓ Share code on github.com

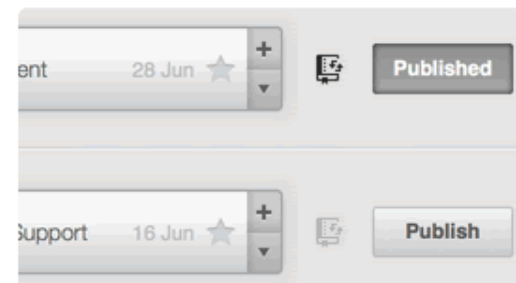
At GitHub, we think that sharing code should be as simple as possible.
That's why we created GitHub for Mac.



Synchronize branches



Clone repositories in one click



Powerfully simple branching

Develop with Git in Eclipse, Share and discuss on GitHub

Branch, merge, clone, and synchronize repositories from Eclipse with EGit. Work with issues, pull requests, and Gists from Eclipse with the GitHub Mylyn Connector.

Download Git & GitHub for Eclipse

Free to download, free to use.

The screenshot shows the Eclipse IDE interface. On the left, the 'Git Repositories' view displays a list of repositories: 'bootstrap [2.0.4-wip]', 'hubot [master]', and 'jquery [master]'. Below these are 'Local' and 'Remote' branches, with 'origin' listed under both. On the right, a 'GitHub Mylyn Connector' window is open, showing 'Issue 6289' titled 'model.association.delete_all perform'. The issue status is 'open' and it was created on 'May 12, 2012'. The reporter is 'Wesley Wolfe'.

EGit and the GitHub Mylyn Connector use JGit, a Java implementation of the Git version control system. [Download JGit from Eclipse.org](#)

Overview

Help

Release Notes

The screenshot shows the 'Git Staging' view in Eclipse. It displays the repository 'hubot' and lists 'Unstaged Changes (2)': 'package.json' and 'roles.coffee - src/scripts'.

The screenshot shows the 'Commit' view in Eclipse. It displays a list of authors: 'Dinnerbone', 'VictorD', 'Wesley Wolfe', 'VictorD', 'Dinnerbone', and 'stevenh'. The commit message is 'protected String private String'. The commit hash is 'Commit 643ee73c'. The author is 'Wesley Wolfe' and the committer is 'EvilSeph'.

The screenshot shows the 'Branches' view in Eclipse. It displays a list of branches: 'master', 'origin/HEAD', 'origin/gh-pages', and 'origin/gh-pages'. The branch 'master' is selected.

Alternativas de hospedagem gratuita para repositórios Git



Atlassian



Bitbucket



Google code

Referências

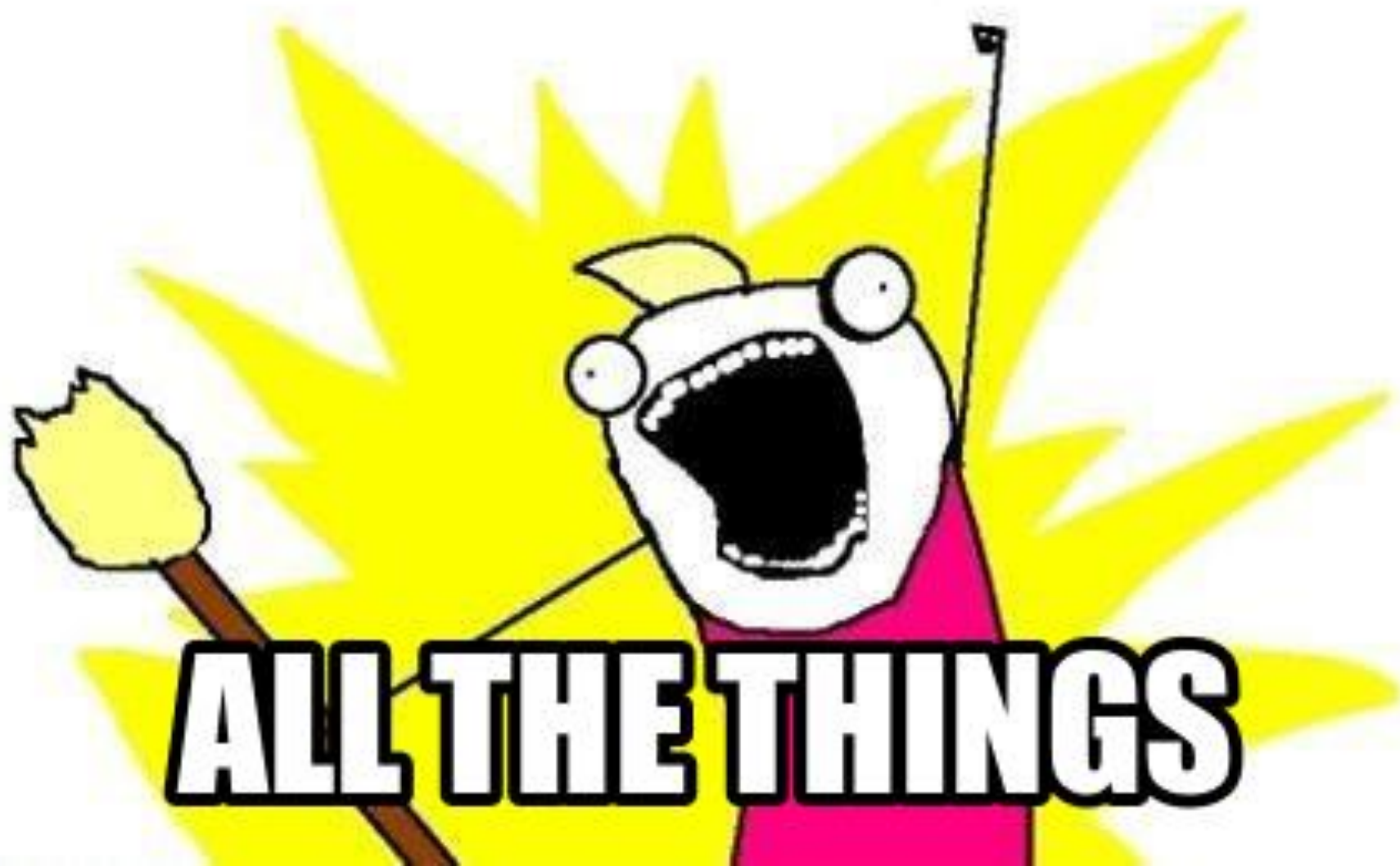
- <http://try.github.io>
- <http://git-scm.com>
- <http://git-scm.com/documentation>
- <http://git-scm.com/book/en/Getting-Started>
- <http://training.github.com>
- <http://github.com>
- <http://bitbucket.org>
- <https://jobs.github.com>
- <http://gitref.org>
- <https://www.codeschool.com/courses/try-git>
- <http://gitimmersion.com/>

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GIT



ALL THE THINGS