

A small introduction:)



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Hard to believe that in 2015 I still run into developers who neither use version control nor see any problem with not using version control.









FAVORITES

28















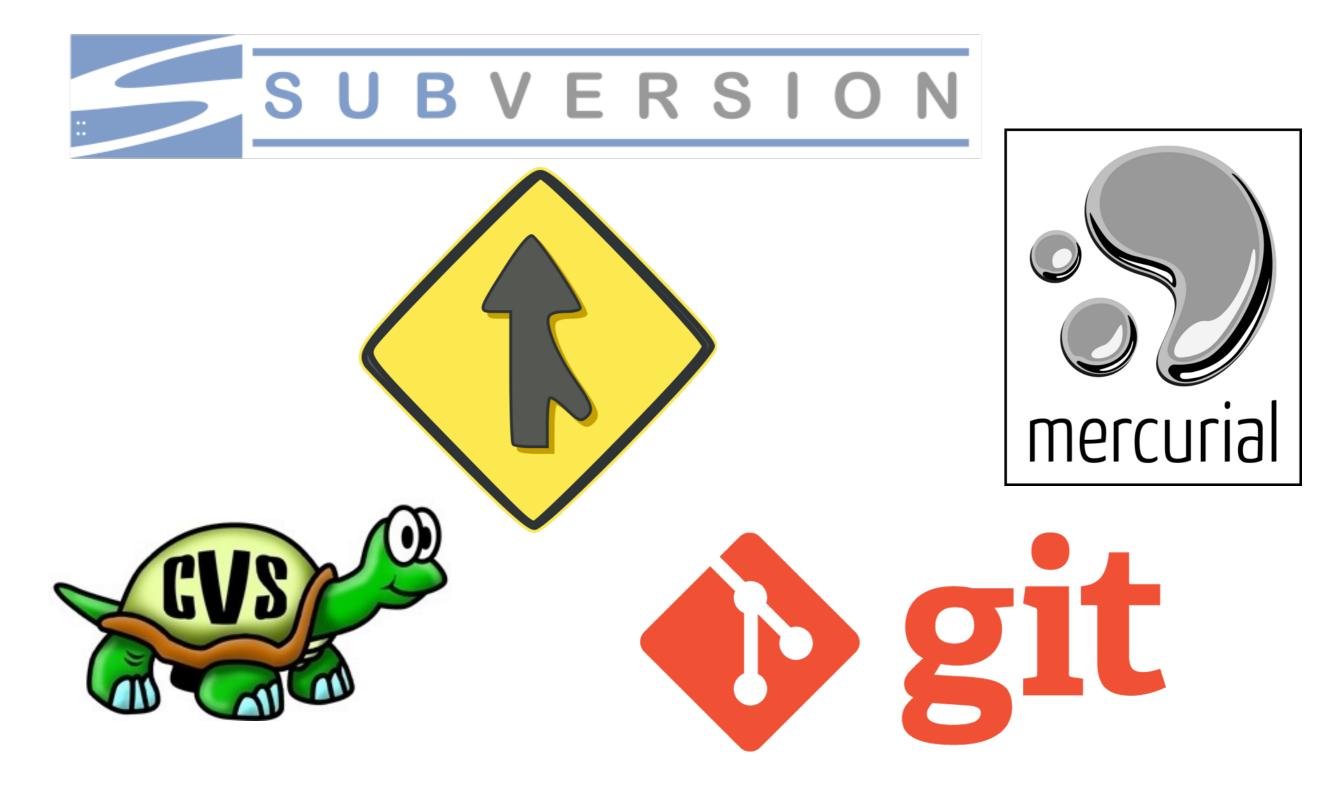


Version Control System?

concept_projectx_v1.pdf concept_projectx_v2.pdf concept_projectx_v3.pdf concept_projectx_final.pdf

concept_projectx_final_v2.pdf concept_projectx_final_v3.pdf

Version Control System?

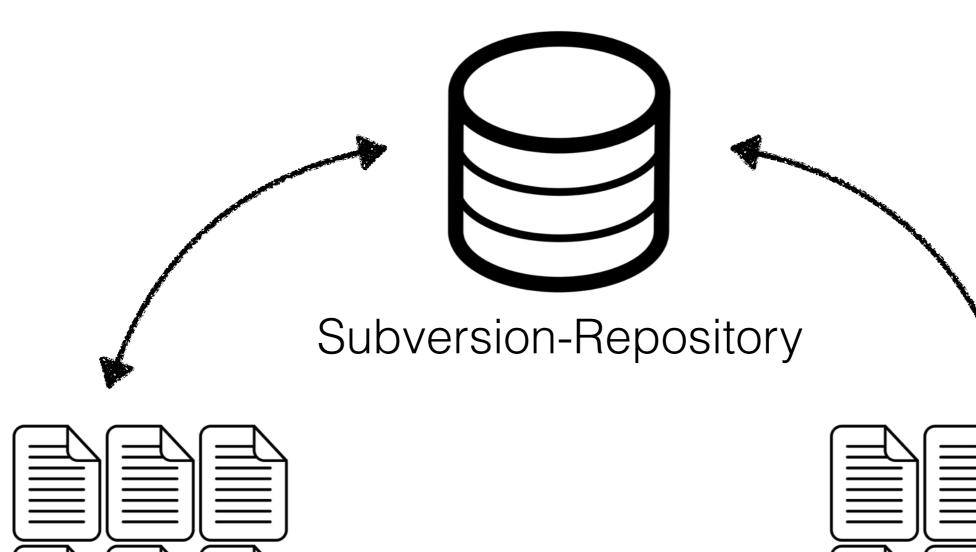




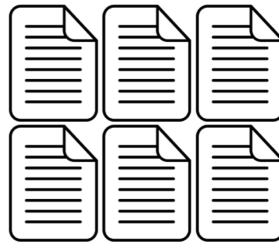
"Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency."

-The "website" git-scm.com

Theory



Bob's Checkout



Alice's Checkout

Theory Git-Repository Bob's Checkout Alice`s Checkout

Main Repository: Theory Only a convention Remote Remote Git-Repository **Bob: Push changes Bob: Pull's changes** Bob's Checkout Alice's Checkout

Setup

- \$ git config --global user.name "octocat"
- \$ git config --global user.email "octocat@me.com"
- \$ git config --global color.ui auto

New repository

- \$ mkdir my-first-repo
- \$ cd my-first-repo
- \$ git init

Initialized empty Git repository in ~/my-first-repo/.git/

First commit

```
$ touch README.md
$ vim README.md
$ git status
On branch master
```

. . .

Untracked files:

README.md

nothing added to commit [...] (use "git add" to track)

First commit

```
$ git add README.md
$ git status
On branch master
...
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
```

new file: README.md

First commit

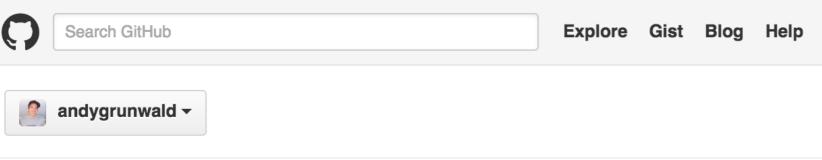
\$ git commit \$ git log

commit e213ae022ce72c72e5062ab65f4e3791023b0e22

Author: octocat <octocat@me.com>

Date: Wed Jan 22 19:17:24 2015 +0100

Initial commit





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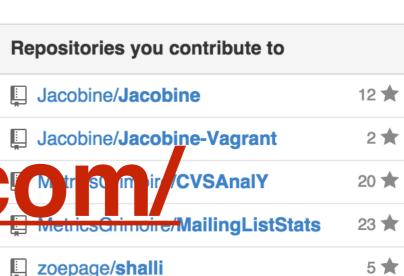


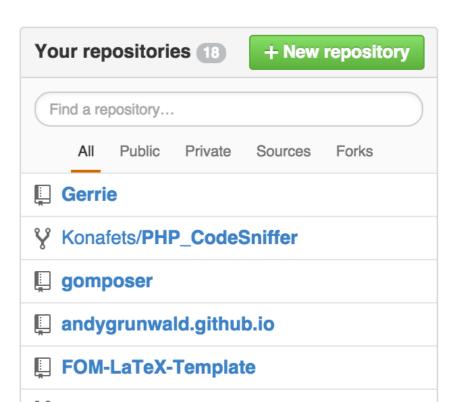
News Feed

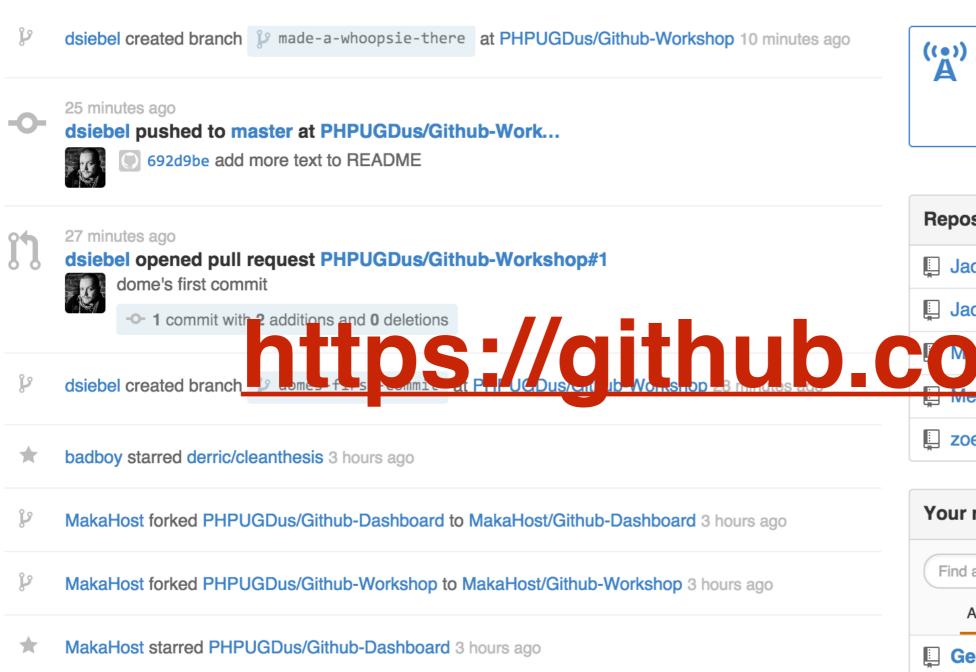
LDAP Sync, support for OpenStack KVM, instance monitoring, and more.

1) Pull Requests

View 7 new broadcasts





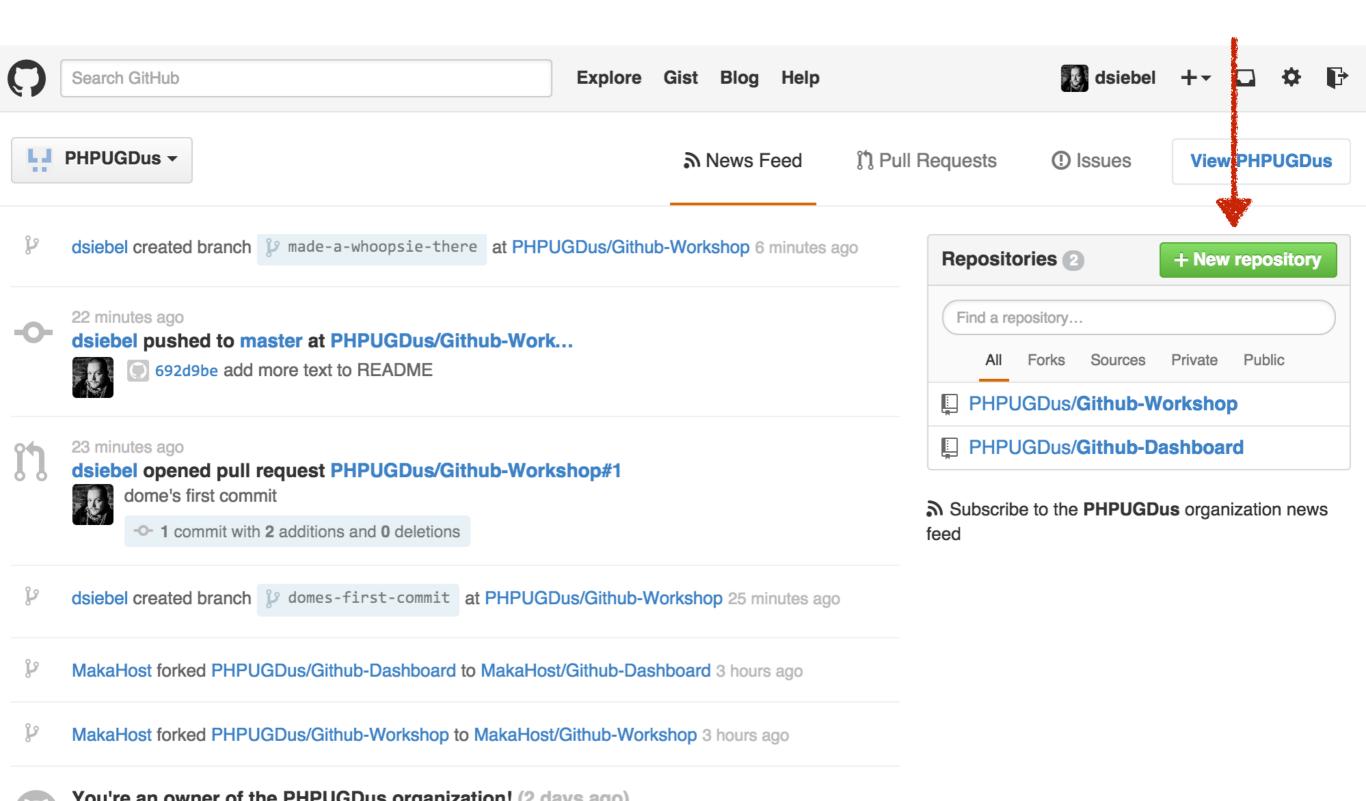


mre forked collectd/collectd to mre/collectd 4 hours ago

markuspoerschke starred symfony/symfony 4 hours ago

thomashempel starred JVillella/JVFloatingDrawer 10 hours ago

New repository



Push your repository

Name of remote **URL** of remote

- \$ git remote add origin git@github.com:name/repo.git
- \$ git push -u origin master

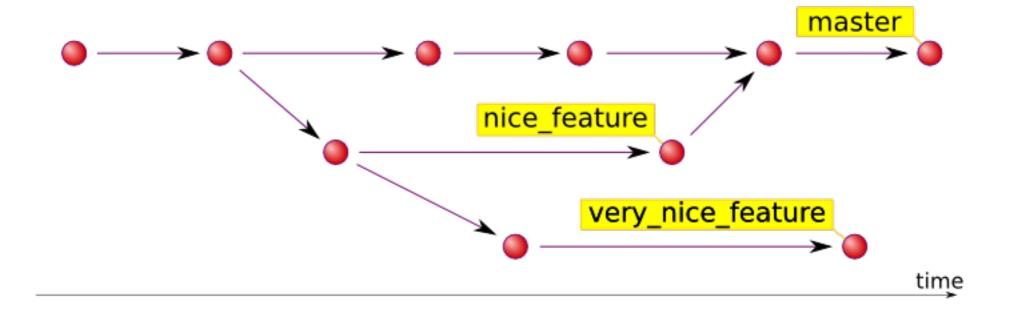


Target remote Branch to push

Other hosters

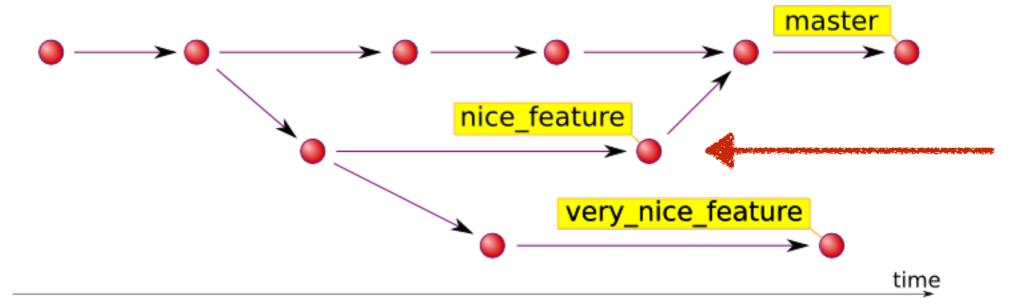
- bitbucket https://bitbucket.org/
- gitlab https://gitlab.com/
- sourceforge http://sourceforge.net/

Branch + Merge



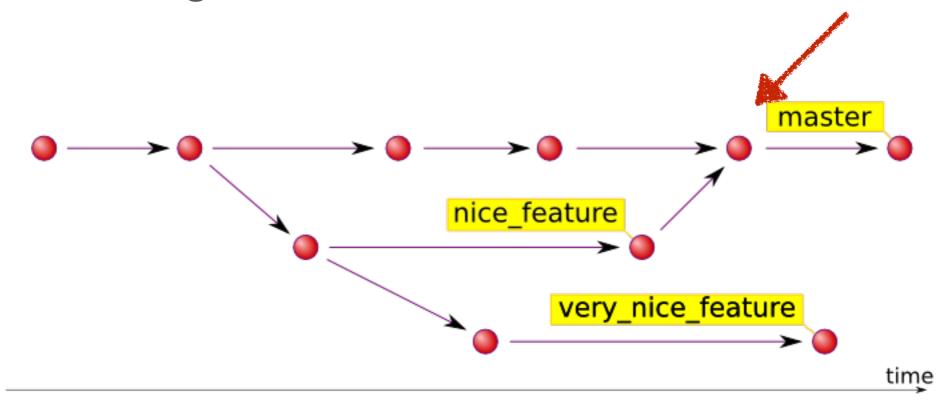
Creating a branch

- \$ git checkout master
- \$ git branch nice_feature
- \$ git checkout nice_feature
- \$ touch nice_feature_file
- \$ vim nice_feature_file
- \$ git add nice_feature_file
- \$ git commit



Merging a branch

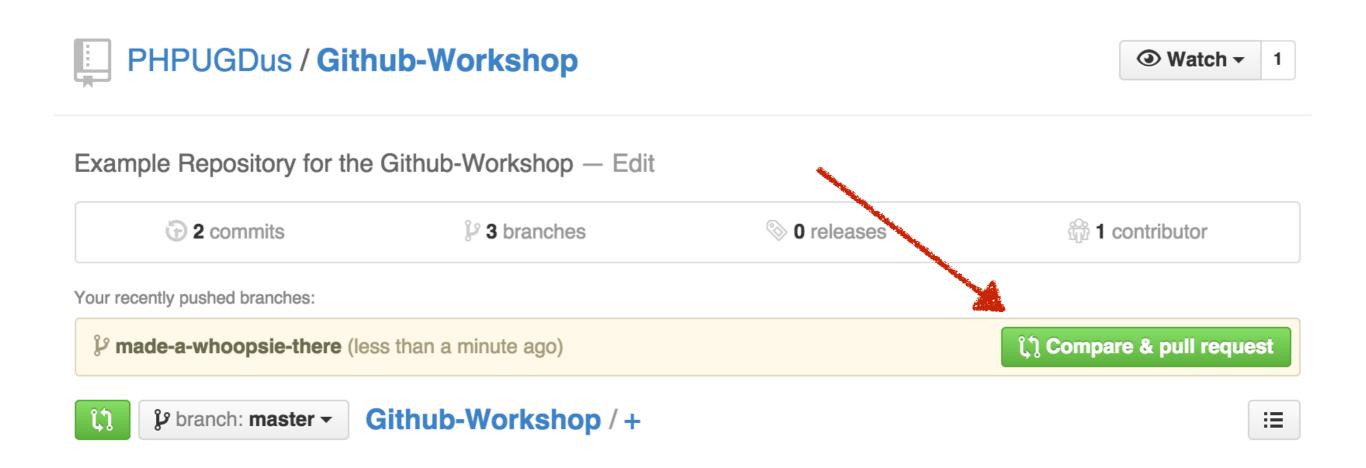
- \$ git checkout master
- \$ git merge nice_feature
- \$ git log
- \$ gitk



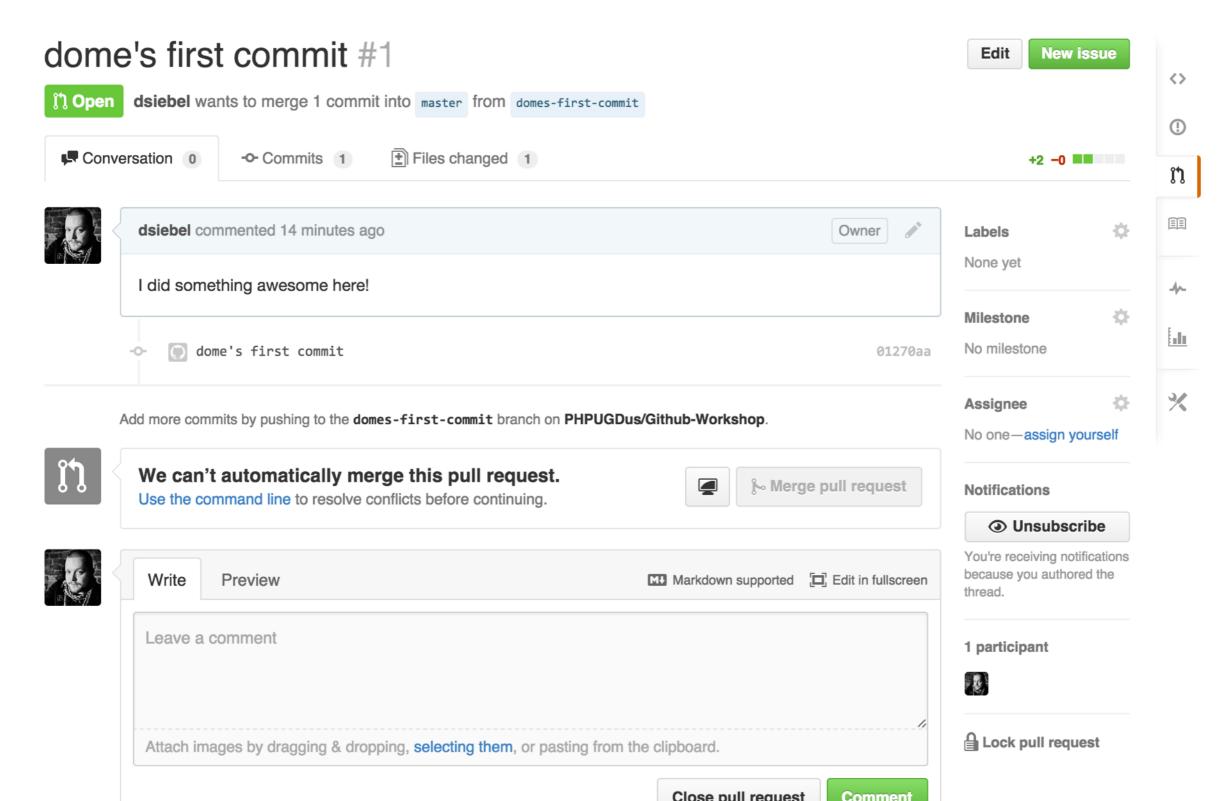
Pull Requests

- \$ git clone git@github.com:PHPUGDus/Github-Workshop.git
- \$ cd Github-Workshop
- \$ git checkout -b my-awesome-changes
- \$ vim README.md
- \$ git status
- \$ git commit -a
- \$ git remote -v
- \$ git push origin my-awesome-changes

Pull Requests



Pull Requests



SVN to Git (without history)

- \$ svn export svn://<your_svn_repo> svn_export
- \$ cd svn_export
- \$ git init
- \$ # Create Repository at Github
- \$ git add *
- \$ git commit -m "Initial commit"
- \$ git remote add origin git@github.com:user/repo.git
- \$ git push -u origin master

SVN to Git (without history)

```
# Create Repond try this at home!

$ # Create Repond at Gistimportant!

$ git add * History Selection |

$ git commit -m Initial com/dsiebel/syn2git.php

$ git remote Algithus selection |

$ git https://origin.
```

~/.gitconfig

```
[user]
  name = octocat
  email = octocat@me.com
[alias]
  st = status
  ci = commit
  co = checkout
  pom = push origin master
  branches = branch -av
  tags = tag -l
  remotes = remote -v
```







alias yolo='git commit -am "DEAL WITH IT" && git push -f origin master'









FAVORITES

3,165

1,414



















11:49 PM - 18 Jan 2013

Further resources

- \$ git help <subcommand>
- Official git book: http://git-scm.com/book/en/v2
- Official git documentation: http://git-scm.com/doc
- Ask your colleagues / developers :)

Further resources

- Try git: https://try.github.io/
- Debugging cheat sheet: https://pbs.twimg.com/media/BjF0pvrCcAAiVRG.png:large
- Cheat sheet: https://github.com/tiimgreen/github-cheat-sheet

Tooling

- GushPHP:
- Debugging cheat sheet: https://pbs.twimg.com/
 media/BjF0pvrCcAAiVRG.png:large
- Cheat sheet: https://github.com/tiimgreen/github-cheat-sheet

Questions?

https://github.com/PHPUGDus/Github-Workshop

Welcome @PHPUGDus

Push to PHPUGDus/Github-Workshop @ Github to see your actions here!

URL: https://github.com/PHPUGDus/Github-Workshop

Github Repos

Github-Dashboard 2
Github-Workshop 0

of watchers

Open Pull Requests

Added a few more information to the README

Github-Dashboard * @andygrunwald * Jan 20 2015, 8:01 PM

dome's first commit Github-Workshop * @dsiebel * Jan 22 2015, 4:01 PM

Last updated at 18:34



7 minutes ago



dsiebel pushed master at PHPUGDus/Github-Workshop added slides

47 minutes ago



dsiebel pushed master at PHPUGDus/Github-Workshop add more text to README

1 days ago



andygrunwald pushed master at PHPUGDus/Github-Dashboard Added a few more files to ignore