GIT COLLABORATION HITCHHIKER'S GUIDE TO GIT REPOSITORIES



REQUIREMENTS

If you followed and understood

Git basics or: How I learned to stop worrying and love the rebase

this follow-up is made for you!

THE DO IT YOURSELF OVERHEAD VS BREAKING DEPENDENCIES

DILEMMA

BOOT YOUR NOTEBOOKS

SLIDES

https://escodebar.github.io/trainings/git/collaboration/

COLLABORATION

... because working together is fun!

ORGANIZING COLLABORATION

- Choose a collaboration setup
- Define the requirements for contributions
- Design your collaboration workflow
- Provide necessary collaboration tools

COLLABORATION SETUPS

...using Git!

GIT IS DISTRIBUTED!



FILE SYSTEM

Remotes can be on file-systems like:

- external block devices
- network file share
- cloud file share

GIT SERVER

<u>Setup your own Git server.</u>

REPOSITORY HOSTS

Use a repository host:

- <u>Bitbucket</u>
- <u>GitHub</u>
- <u>GitLab</u>

SETUP EVALUATION

- Use case
- Effective costs
- User management
- Access management
- Integrated worflows
- Pipeline integrations

FORK THE REPOSITORY

I prepared <u>a repository</u> for this training.

FORKS

A fork is a clone of the repository, managed by the repository host.

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PROJECT COLLABORATORS

To allow others to contribute to your repository / fork, you need to add them as collaborators.

ADD A COLLABORATOR TO YOUR REPOSITORY

The simplest way of collaboration!

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COLLABORATION WORKFLOWS

...to avoid the chaos!

SOME KNOWN WORKFLOWS

- Centralized Workflow
- Integration-Manager Workflow
- Benevolent Dictator Workflow
- The GitHub Workflow

CENTRALIZED WORKFLOW



INTEGRATION-MANAGER WORKFLOW



BENEVOLENT DICTATOR WORKFLOW



THE GITHUB FLOW

Most hosts offer a simple yet elegant workflow to

review and discuss changes

before merging them to the production branch.

Take a look at **The GitHub Flow**

GIT CLONE

Clone the repository into a new directory

CLONING A REPOSITORY

...creates a local repository, adds the original repository as remote and copies all objects and references.

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CLONE THE REPOSITORY

Clone the fork to your computer:

\$ mkdir -p ~/path/to/collaboration && cd \$_

```
$ git clone 'ssh://git@stash.dectris.local:7999/~pablo.verges/collaboration.
Cloning into 'collaboration'...
remote: Counting objects: 24, done.
remote: Compressing objects: 100% (16/16), done.
remote: Total 24 (delta 7), reused 0 (delta 0)
Receiving objects: 100% (24/24), 4.40 KiB | 4.40 MiB/s, done.
Resolving deltas: 100% (7/7), done.
```

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GIT REMOTE

Manage set of tracked repositories.

WHICH REMOTES DO WE HAVE?

\$ git remote
origin

\$ git remote show origin
* remote origin
Fetch URL: ssh://git@stash.dectris.local:7999/~pablo.verges/collaboratio
Push URL: ssh://git@stash.dectris.local:7999/~pablo.verges/collaboratio
HEAD branch: master
Remote branch:
 master tracked
Local branch configured for 'git pull':
 master merges with remote master
Local ref configured for 'git push':
 master pushes to master (up to date)

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ADDING AN OTHER REMOTE

Add the blessed repository to your remotes.

\$ git remote add blessed 'ssh://git@stash.dectris.local:7999/~pablo.verges/collaborati

CONTRIBUTION REQUIREMENTS

...because you are not accepting everything!

POSSIBLE REQUIREMENTS

- Tests
- Code Format
- Documentation
- Development history
- Software engineering

DEFINE YOUR COLLABORATION REQUIREMENTS

There is a **README**.md in the repository.

Adapt it according to your team's preferences.

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CREATE THE FEATURE BRANCH

Prepare the branch in the cloned repository:

\$ git checkout -b pe/adapt_contribution_requirements origin/ma Switched to a new branch 'pe/adapt_contribution_requirements'

COMMIT THE CHANGES

Depending on how many changes you made, you may want to make several commits.

SEE YOUR CHANGES

Double check your changes:

\$ git log -p origin/master..HEAD
[...]

REVIEW YOUR OWN CHANGES

A pull request is easily reviewed if the changes are

- small
- tested
- documented
- self contained
- well organized

GIT PUSH

Update remote refs along with associated objects

PUSH YOUR CHANGES

Send the changes with branch to the origin

\$ git push -u origin pe/adapt_contribution_requirements Enumerating objects: 5, done. Counting objects: 100% (5/5), done. Delta compression using up to 4 threads Compressing objects: 100% (2/2), done. Writing objects: 100% (3/3), 391 bytes | 391.00 KiB/s, done. Total 3 (delta 1), reused 0 (delta 0) remote: remote: Create pull request for [...]: remote: http://[...]/adapt_contribution_requirements remote: To ssh://stash.dectris.local:7999/~pablo.verges/collaboration.git * [new branch] pe/adapt_contribution_requirements -> pe/adapt_contribution_requi Branch '[...]' set up to track remote branch '[...]' from 'origin'.

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BREAK

BEGIN SIDE QUEST: HOOKS!

Hooks allow to run automated tasks!

USE CASES

- reject changes automatically which do not meet certain criteria
- provide links to automatically create pull requests
- give feedback to the collaborator

EXAMPLE HOOKS

You can find example hooks in your current Git repository:

```
$ ls -blah .git/hooks
total 56K
drwxr-xr-x 2 escodebar escodebar 4.0K May 4 13:37 .
drwxr-xr-x 8 escodebar escodebar 4.0K May 4 13:37 .
-rwxr-xr-x 1 escodebar escodebar 478 May 4 13:37 applypatch-msg.sampl
-rwxr-xr-x 1 escodebar escodebar 896 May 4 13:37 commit-msg.sample
-rwxr-xr-x 1 escodebar escodebar 3.3K May 4 13:37 fsmonitor-watchman.s
-rwxr-xr-x 1 escodebar escodebar 189 May 4 13:37 post-update.sample
-rwxr-xr-x 1 escodebar escodebar 424 May 4 13:37 pre-applypatch.sampl
-rwxr-xr-x 1 escodebar escodebar 1.6K May 4 13:37 pre-commit.sample
-rwxr-xr-x 1 escodebar escodebar 1.5K May 4 13:37 prepare-commit-msg.s
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-rwxr-xr-x 1 escodebar escodebar 4.8K May 4 13:37 pre-rebase.sample
-rwxr-xr-x 1 escodebar escodebar 3.6K May 4 13:37 update.sample
```

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SERVER SIDE HOOKS

- pre-receive
- update
- post-receive

CLIENT SIDE HOOKS

Most of the hooks are client side.

Let's put them in 3 cathegories:

- Commit workflow hooks
- Email workflow hooks
- Other hooks

COMMIT HOOKS

- pre-commit
- prepare-commit-msg
- commit-msg
- post-commit

OTHER HOOKS

- post-checkout
- pre-push
- pre-auto-gc
- pre-rebase
- post-rewrite
- post-merge

BREAK

CREATING A PULL REQUEST

...getting closer to a successful contribution.

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# CHANGE REVIEWS

#### ...are *important*



#### Seriously!

# **REVIEWING THE CHANGES**

There are several ways to review the changes

- commit by commit
- see the whole diff

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# ADDING COMMENTS

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## **REQUESTING CHANGES**

If you feel like there are changes which are necessary before merging the pull request, you can mark it with "needs work".

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## FIX CHANGES IN A PULL REQUEST

#### You may fix a specific commit using

\$ git commit --fixup <commit-hash>

or

\$ git commit --squash <commit-hash>

# APPROVING THE PULL REQUEST

If there is nothing which prevents you from merging the pull request, you can tell the others by approving the pull request.

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# DECLINING A PULL REQUEST

If for some reason a pull request should not be merged, it can be declined.

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# MERGING A PULL REQUEST

Once the changes are ready, the pull request can be merged.

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# HOW DO WE UPDATE OUR LOCAL BRANCHES?

There are two commands which allow this!

## GIT FETCH

#### Download objects and refs from another repository

## GIT PULL

Fetch from and integrate with another repository or a local branch

### WHAT'S THE DIFFERENCE?

#### git pull is a short hand for

\$ git fetch && git merge FETCH_HEAD

Adding a merge commit to a local branch? Puaj!

# REBASE YOUR BRANCH AND DOUBLE CHECK THE CHANGES

\$ git fetch && git rebase origin/master master

#### RESOURCES

- <u>Git Magic</u>
- Git Reference
- <u>Git is simpler</u>
- Oh shit Git!
- Pro Git
- <u>The thing about Git</u>
- Think like a Git
- <u>Why Git is Better than X</u>

# **QUESTIONS & FEEDBACK**

## THANK YOU!