

GIT

@GillesRoustan

JIT ?

ON DIT GIT !!!



about:me

@GillesRoustan

about:vcs

Qu'est-ce que c'est ?

Système de gestion de version

Pourquoi ?

Décentralisé

Vocabulaire

commit

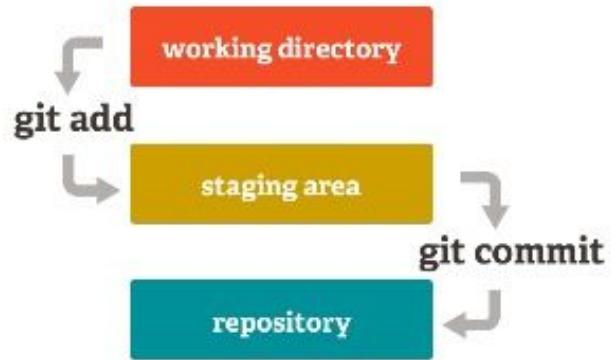
sha1

82dbc04f0d16950a7fcda3d
e273025933a8e6ffd

82dbc04

staging

Staging Area



push

pull

branch

merge

reset

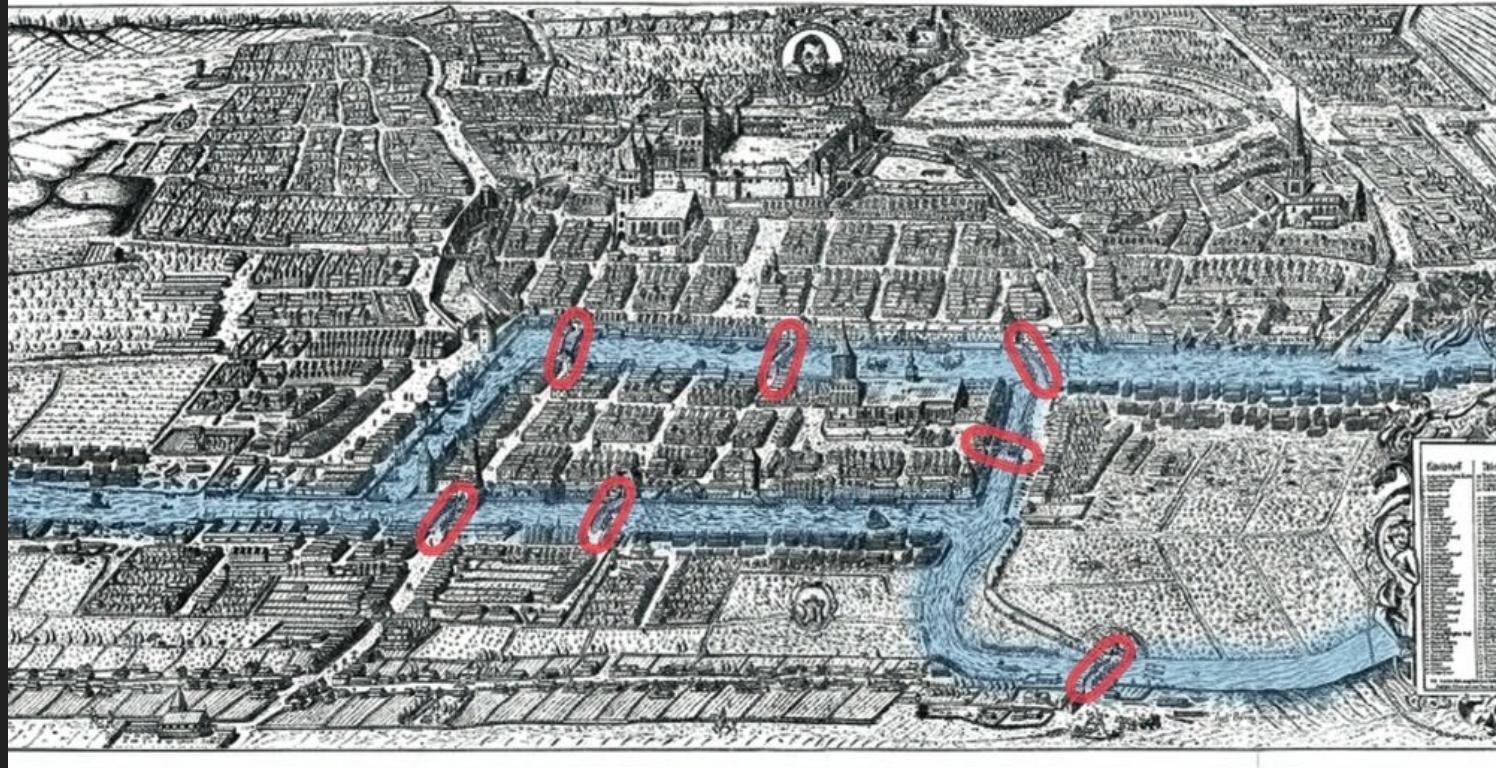
rebase

Un peu de théorie ?

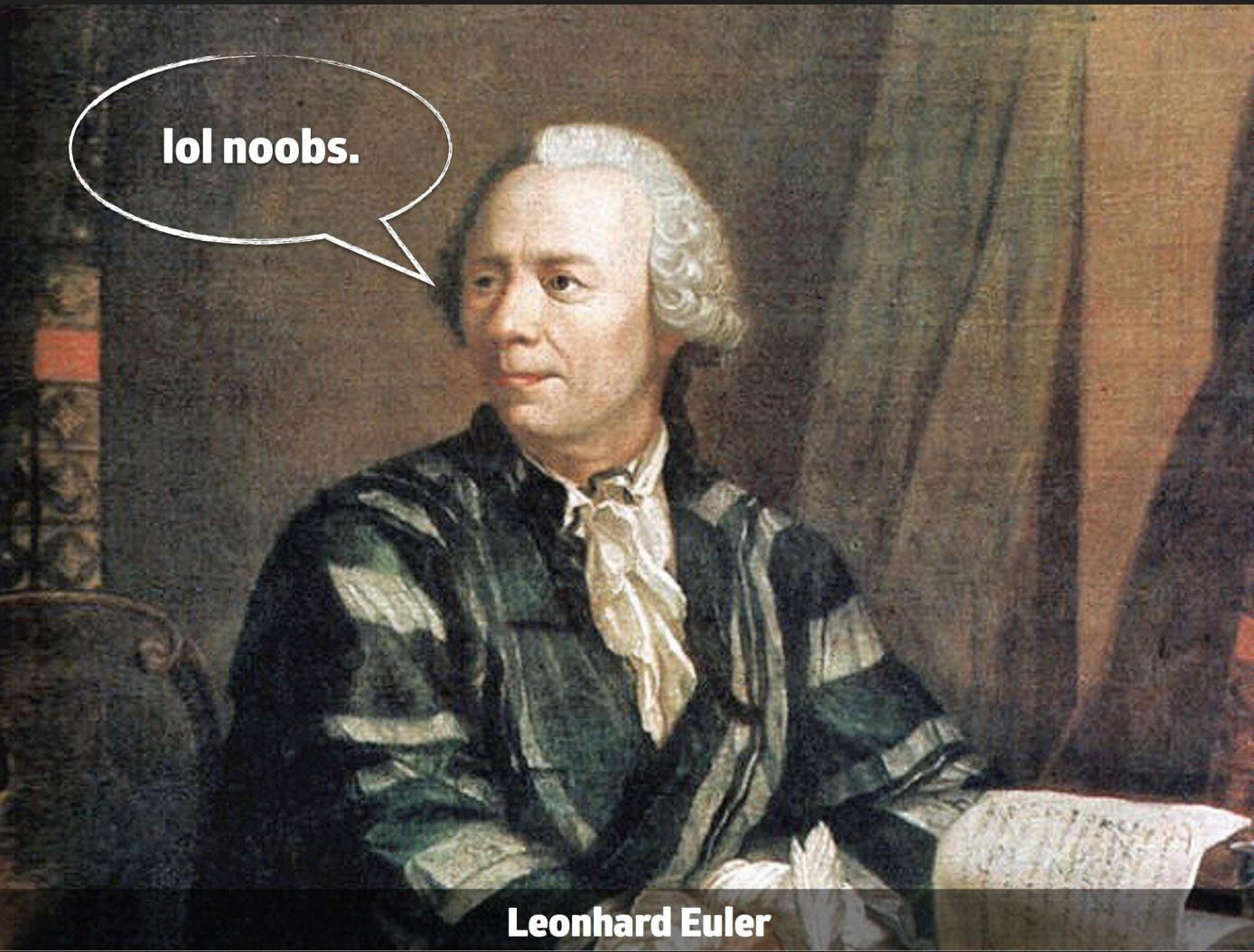


La théorie des graphes

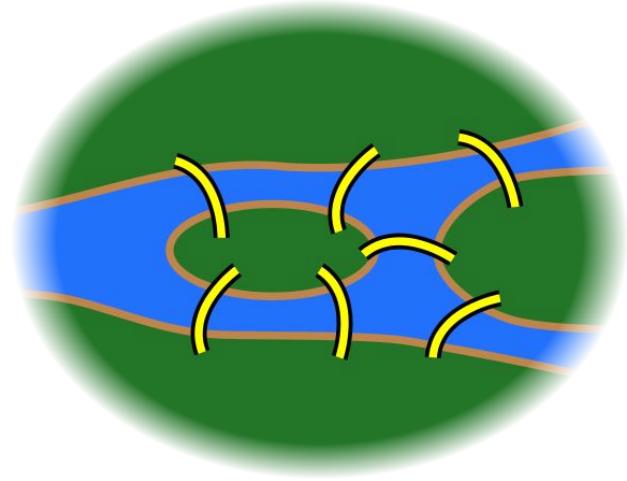
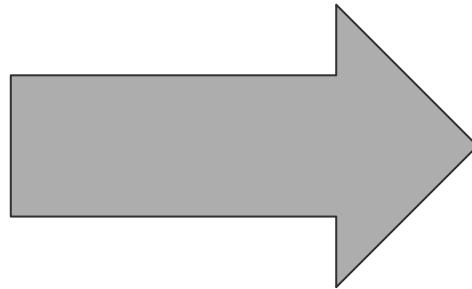
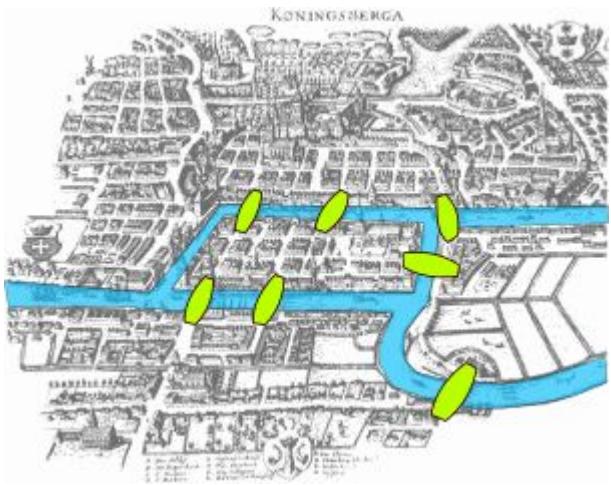
Gedenkblatt zur sechshundert jährigen Jubelfeier der Königlichen Haupt und Residenz-Stadt Königsberg in Preussen.

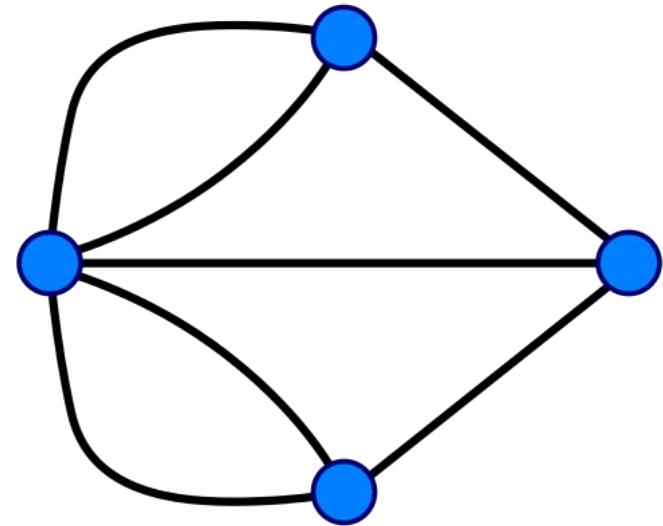
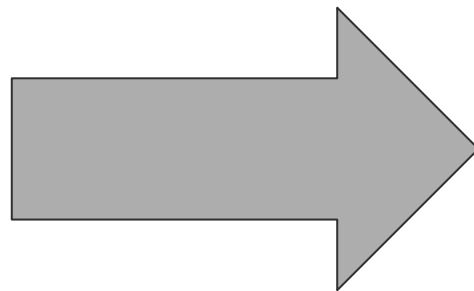
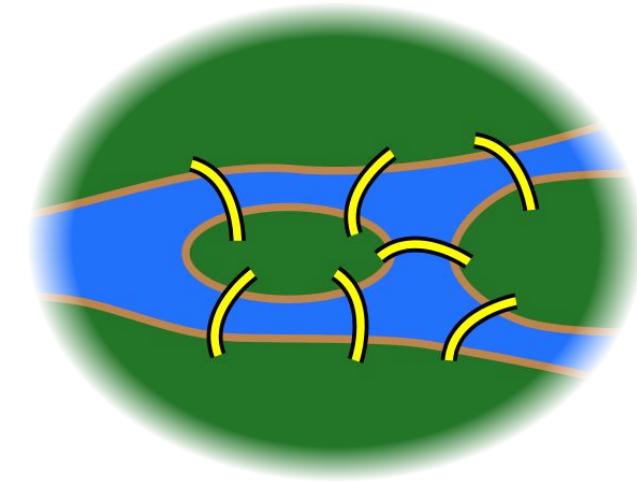


7 bridges of königsberg

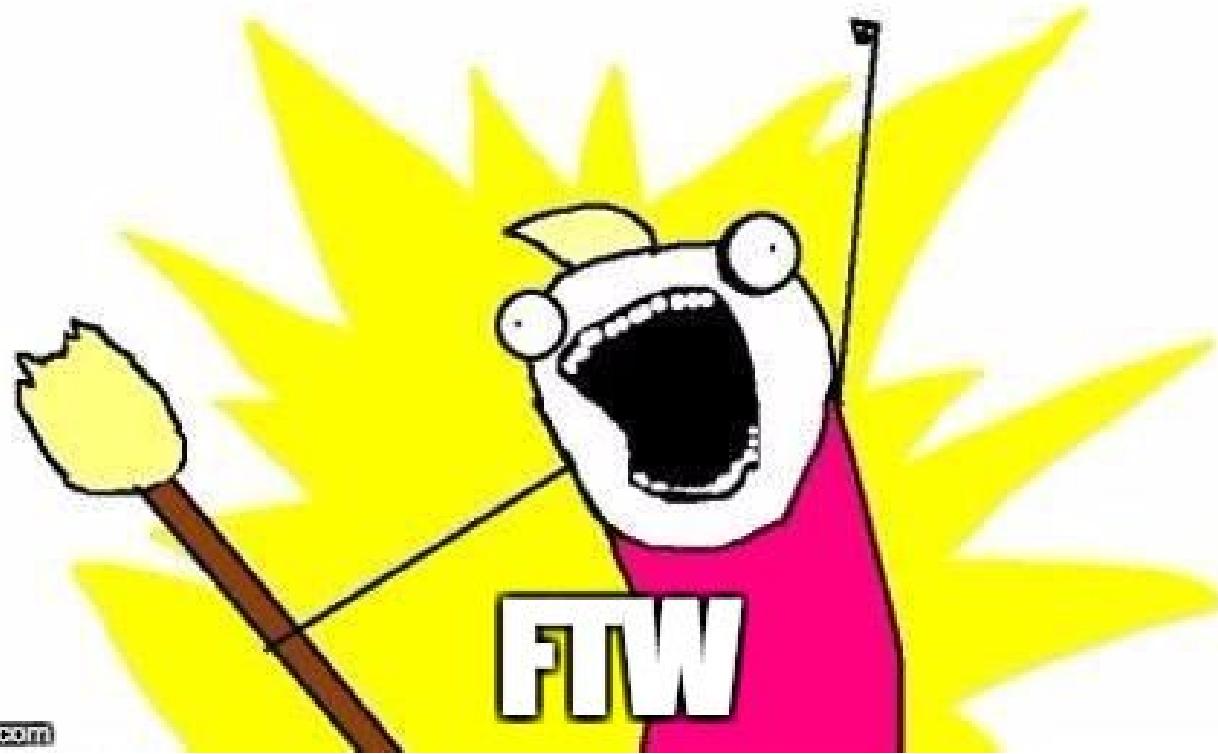


Leonhard Euler





GRAAAAPHES !!!



Un graphe est une collection d'éléments mis en relation entre eux.

Selon que l'on choisit d'orienter les arêtes ou de leur attribuer un poids (un coût de passage), on parle de graphes orientés ou de graphes pondérés.

GIT?

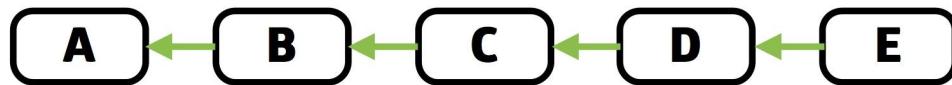




Noeuds



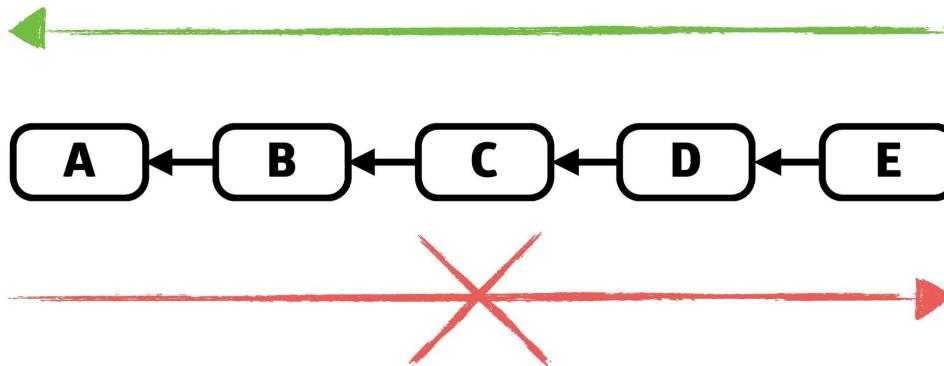
Arêtes



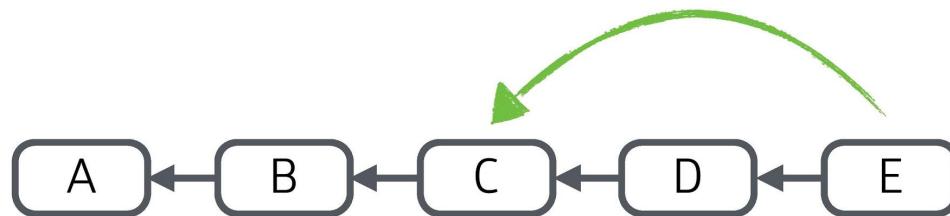
Graph orienté



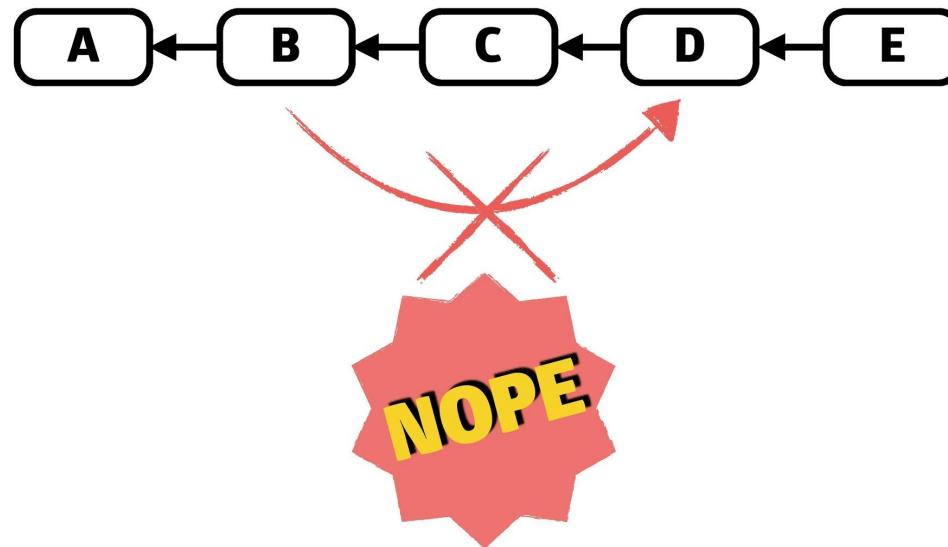
Graph orienté



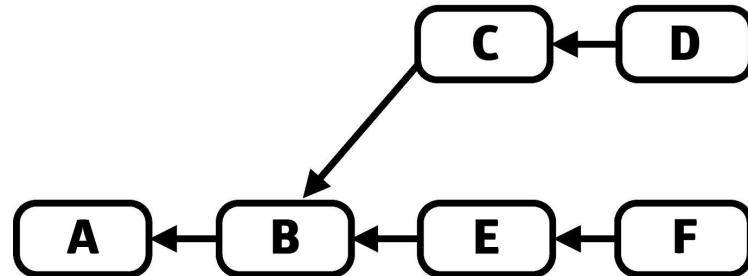
Atteignabilité



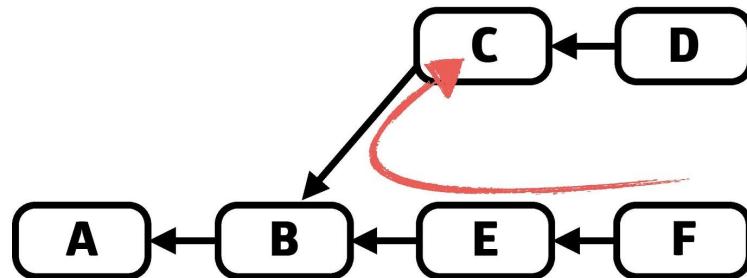
Atteignabilité



Atteignabilité



Atteignabilité



D n'est pas atteignable depuis F

Qu'est-ce qu'une branche ?

```
$ ls .git/refs/heads/
```

```
master
```

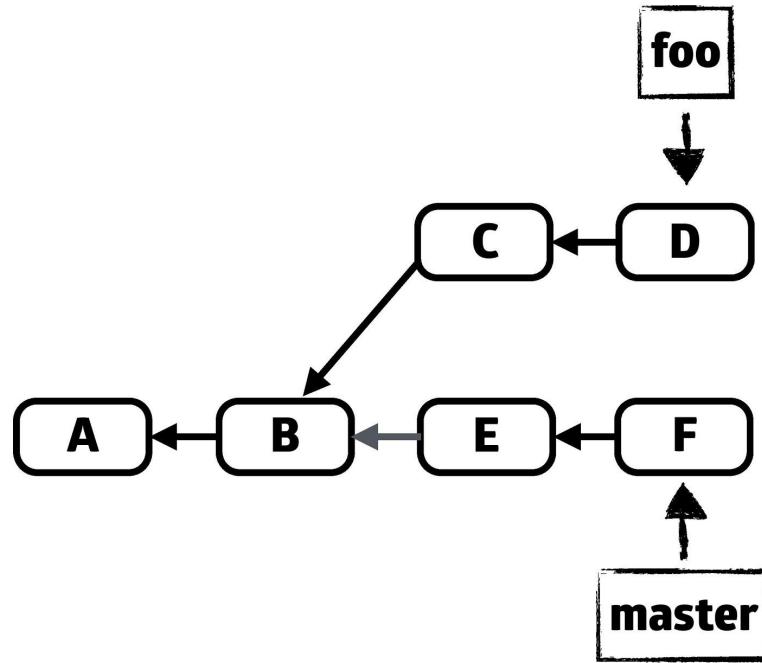
```
$ cat .git/refs/heads/master
```

```
58bd01cded7904f1596cb12aac1d3e0e8ae6b558
```

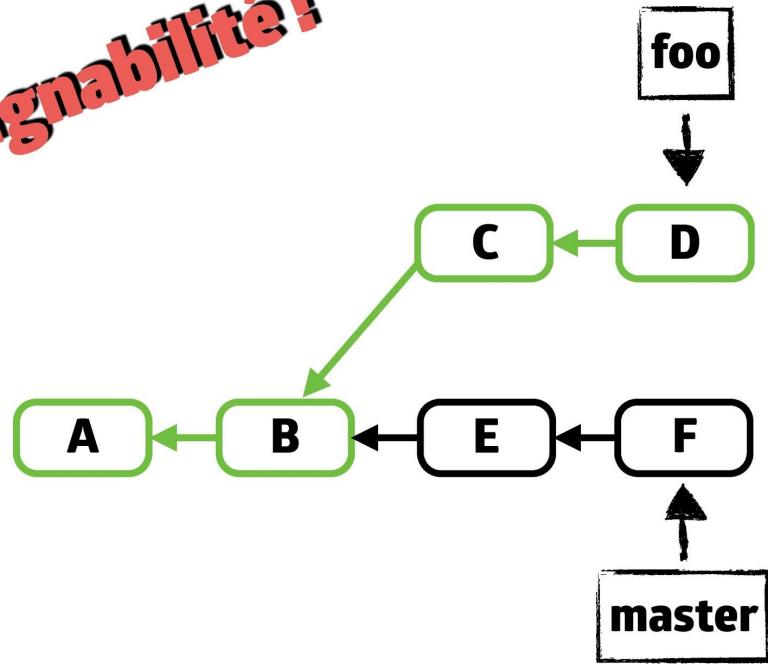
```
$ git branch
```

```
* master
```

```
foo
```

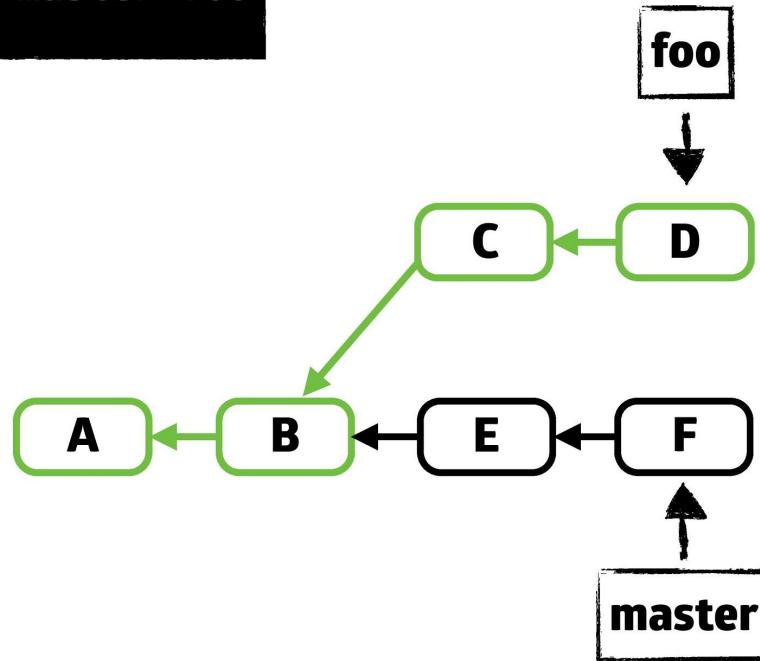


Atteignabilité!

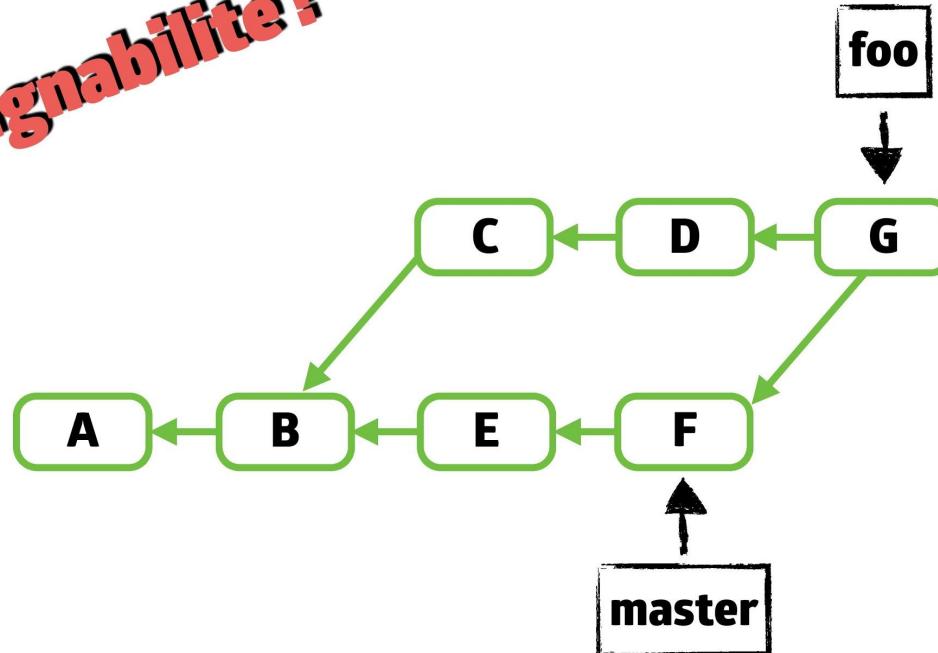


Qu'est-ce qu'un merge ?

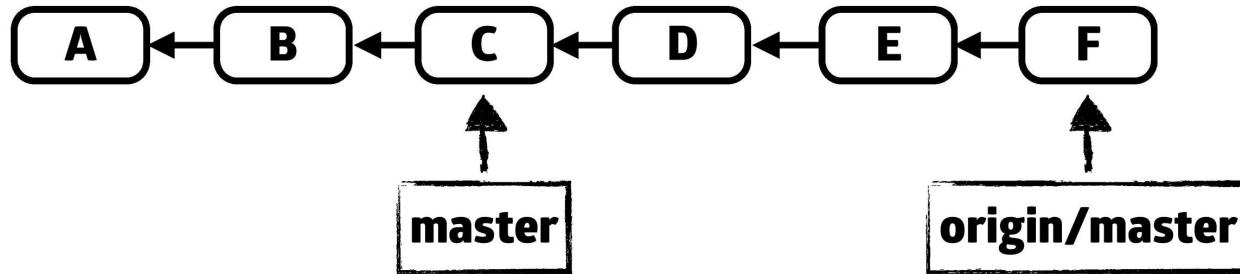
```
$ git merge master foo
```



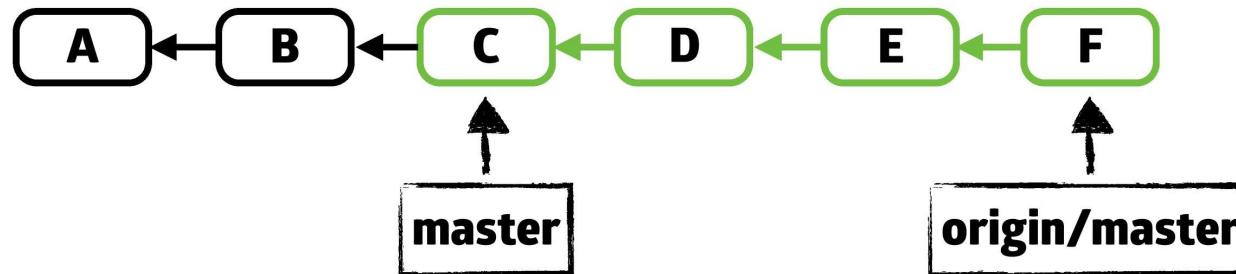
Atteignabilité!



Qu'est-ce qu'un
fast-forward ?

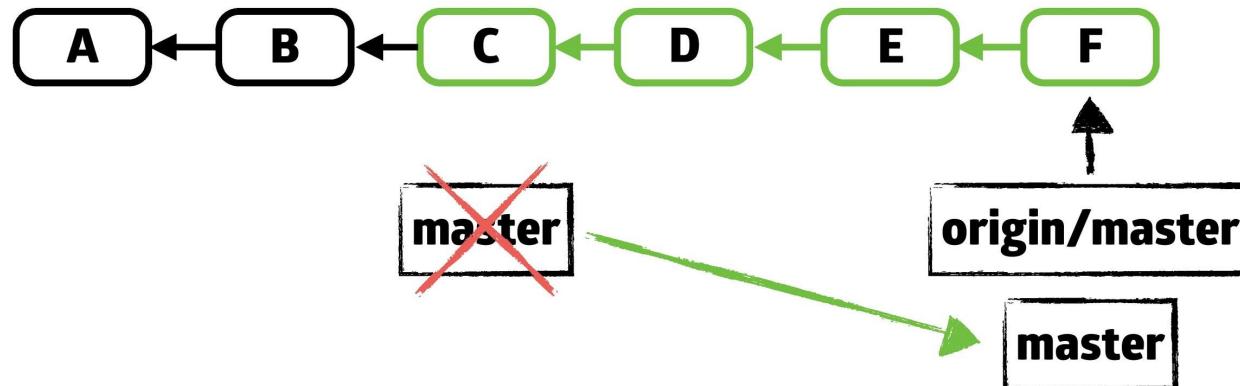


```
$ git merge origin/master
```



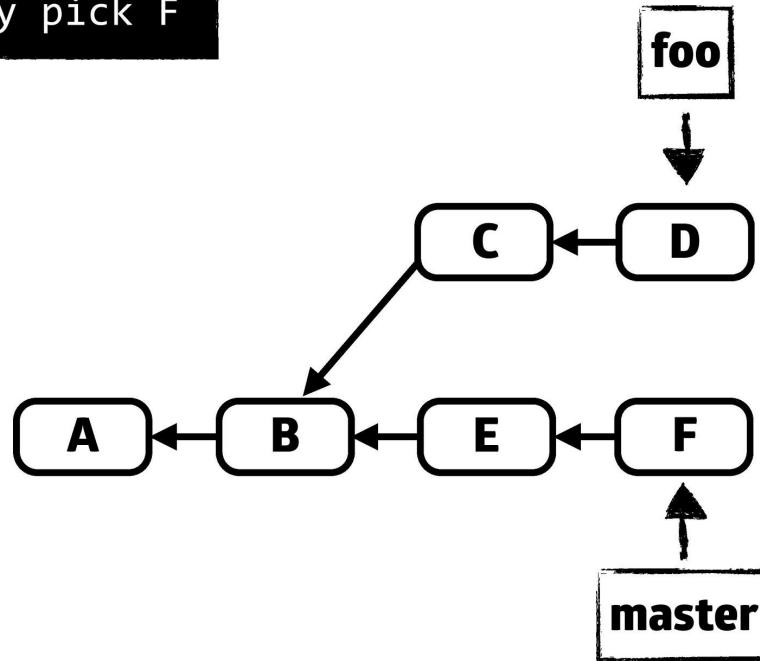
Atteignable !

```
$ git merge origin/master
```

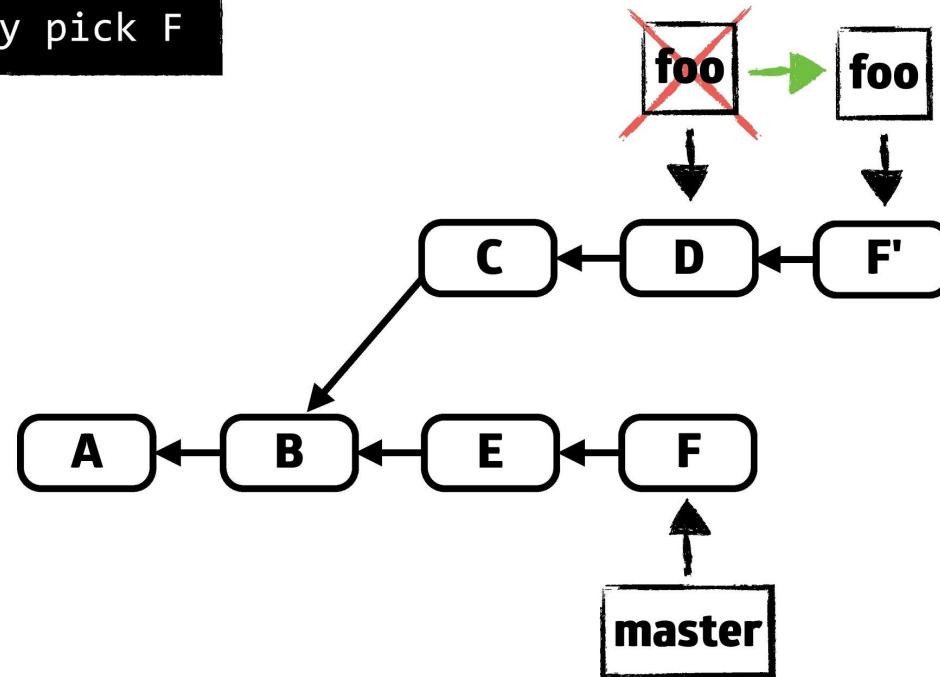


Qu'est-ce qu'un
cherry-pick ?

```
$ git checkout foo  
$ git cherry pick F
```

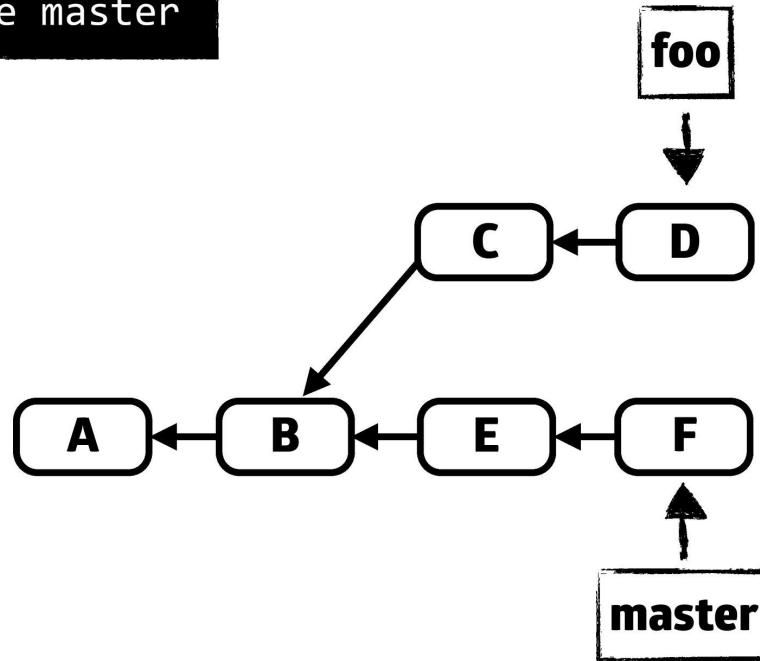


```
$ git checkout foo  
$ git cherry pick F
```

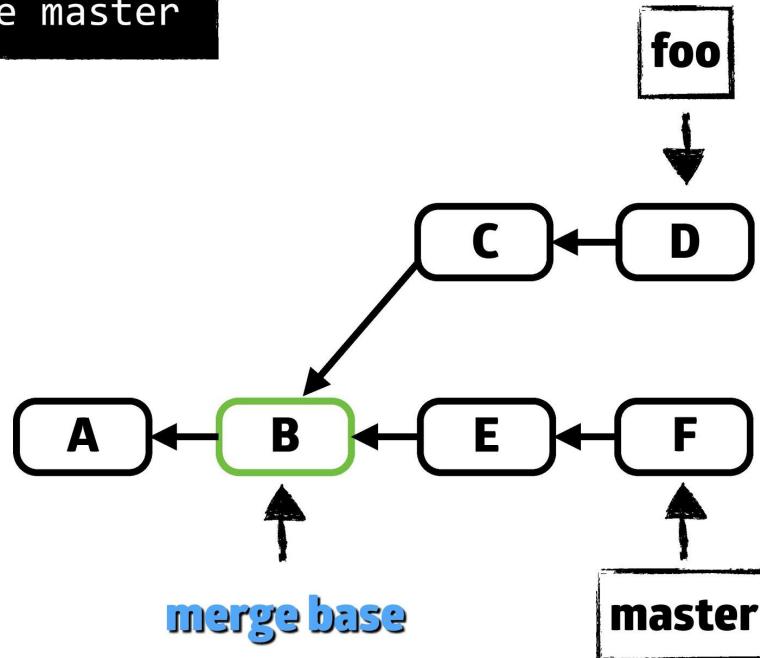


Qu'est-ce qu'un
rebase ?

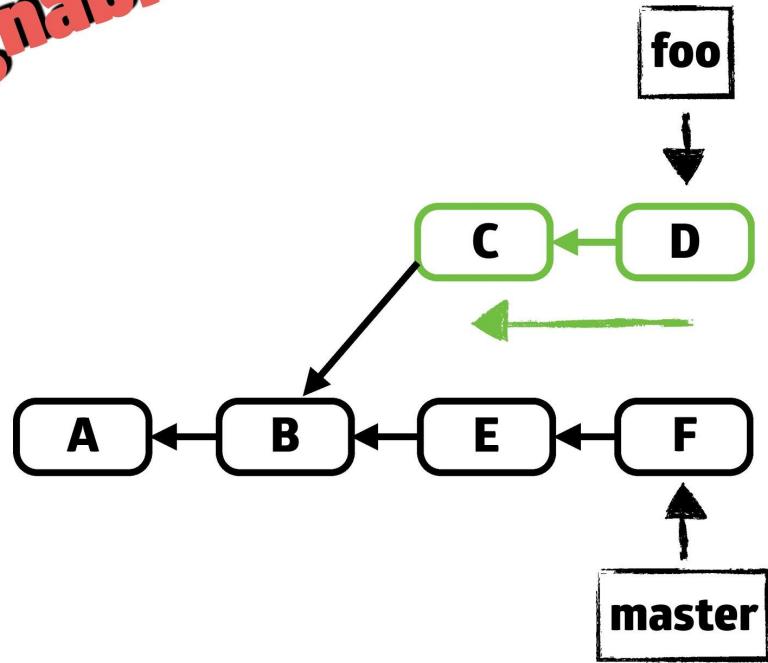
```
$ git checkout foo  
$ git rebase master
```



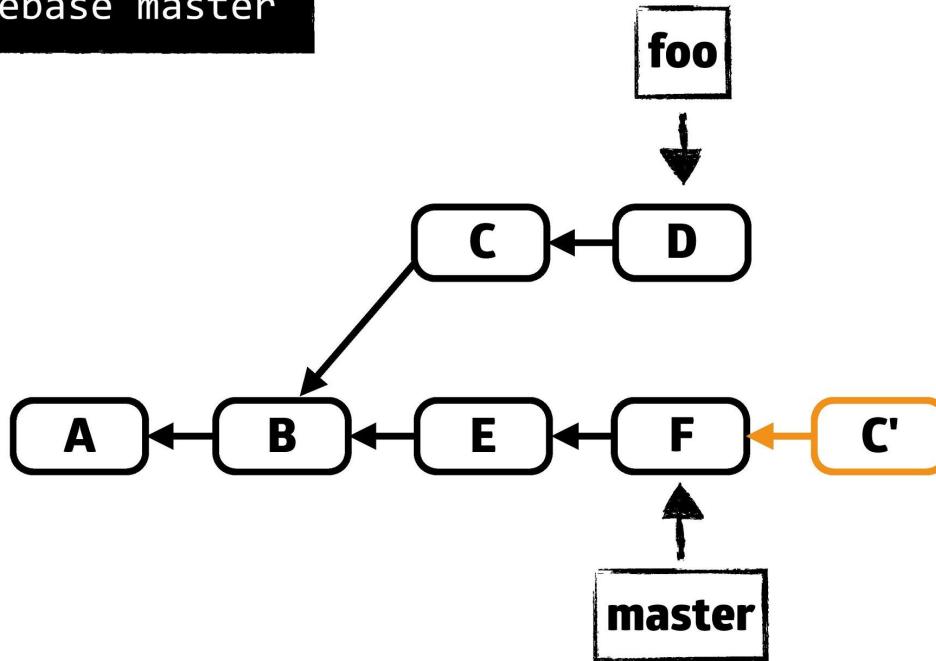
```
$ git checkout foo  
$ git rebase master
```



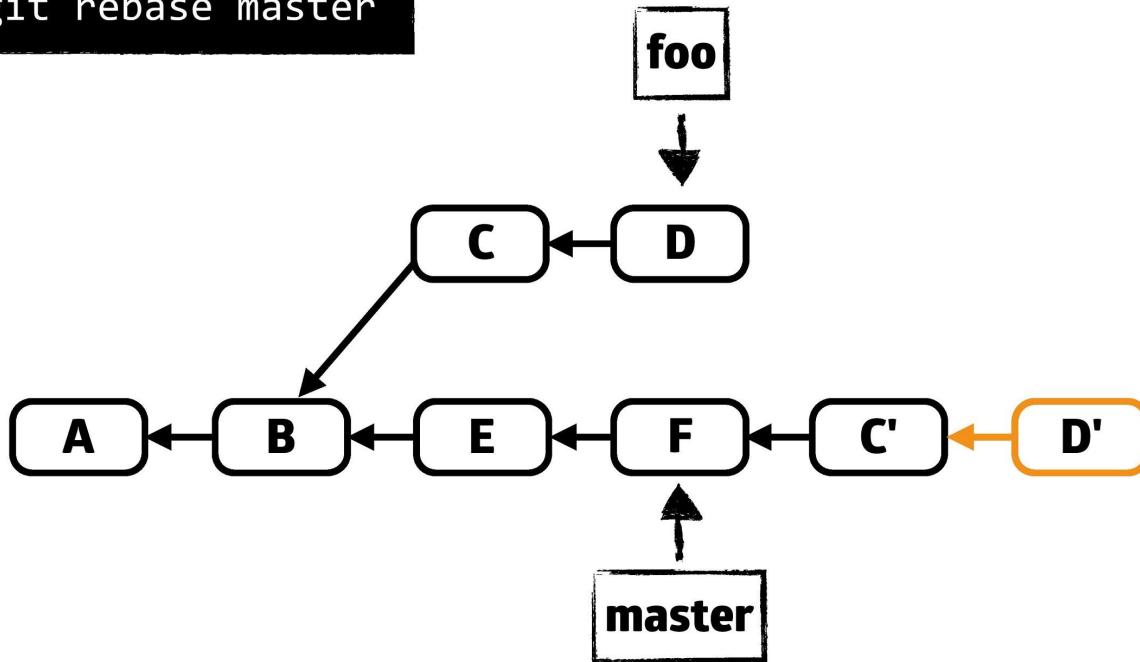
Atteignable!



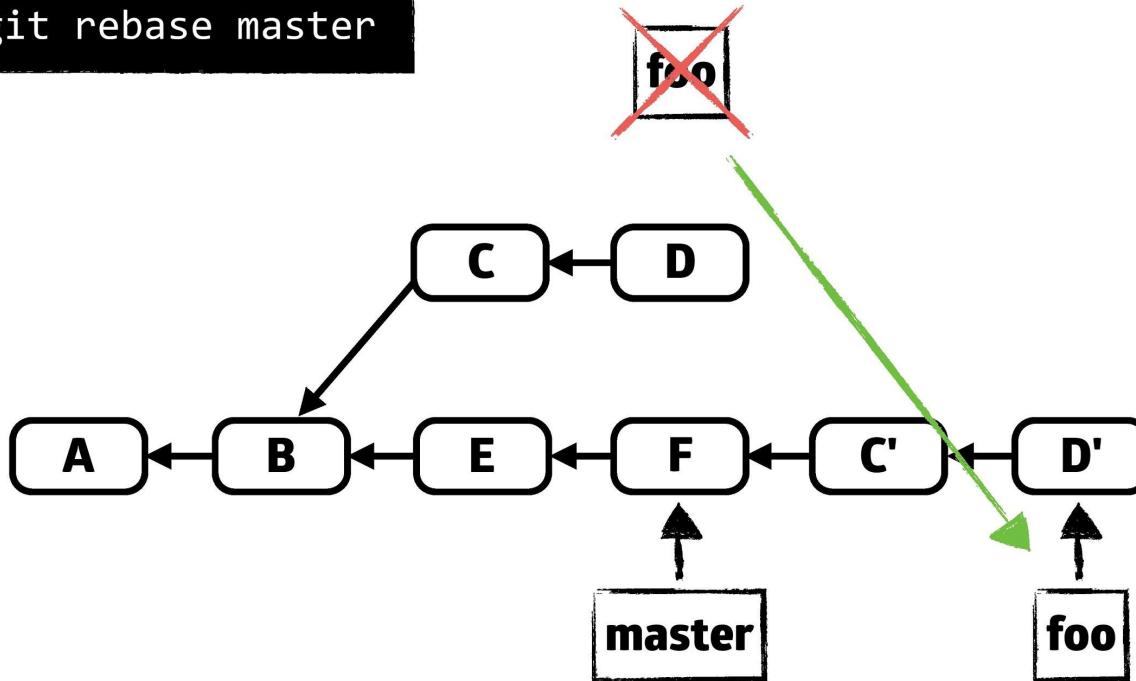
```
$ git checkout foo  
$ git rebase master
```



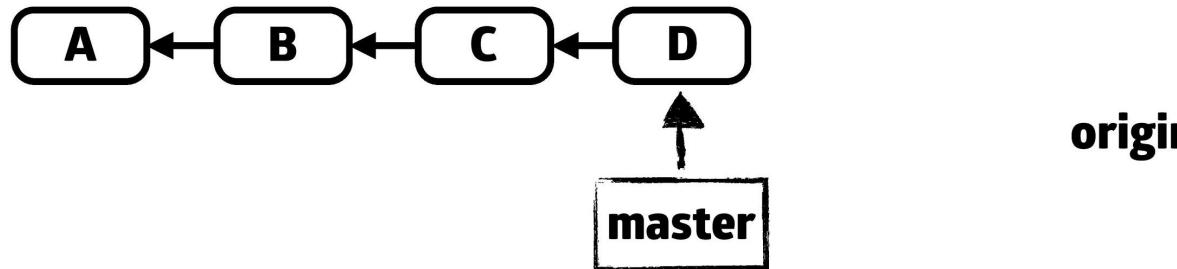
```
$ git checkout foo  
$ git rebase master
```

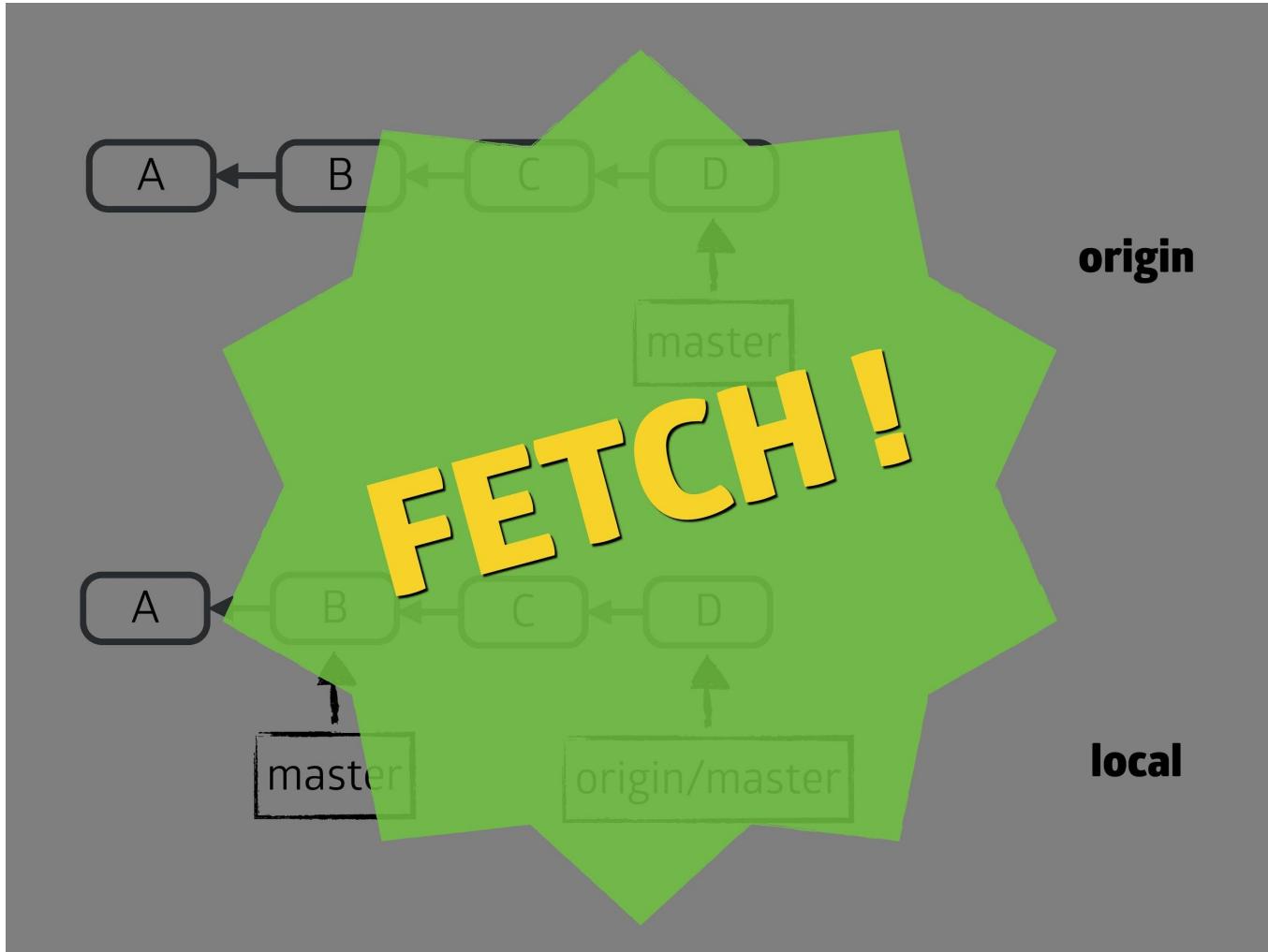


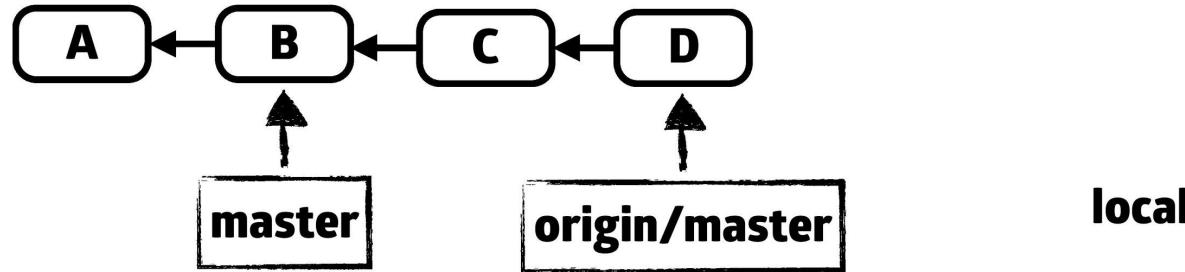
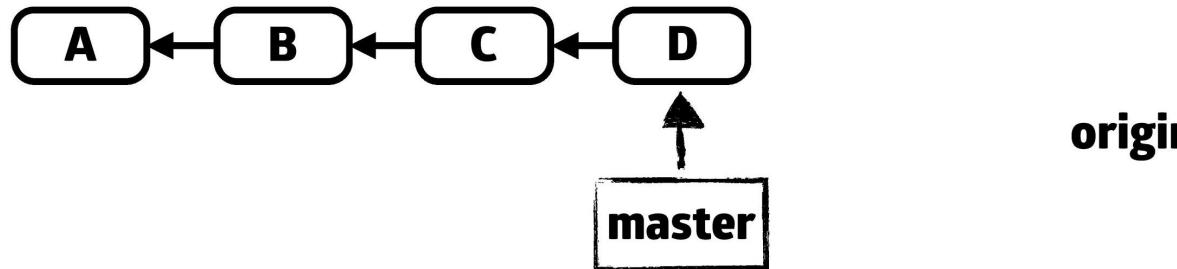
```
$ git checkout foo  
$ git rebase master
```



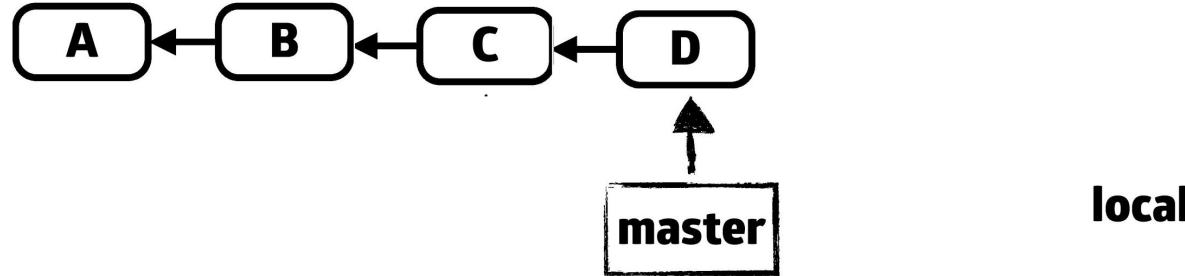
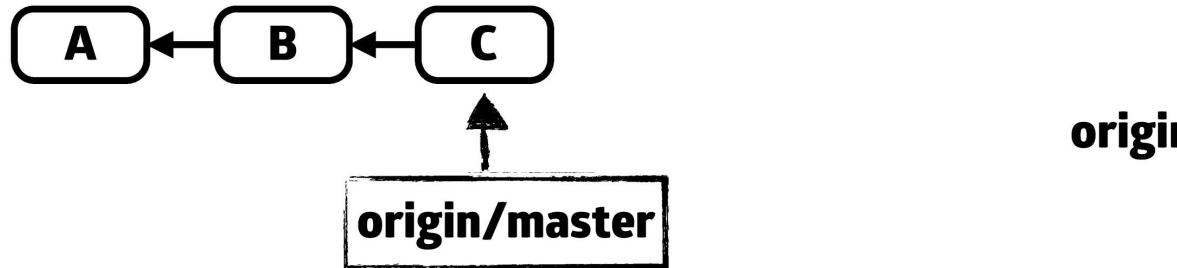
Qu'est-ce qu'un
fetch ?



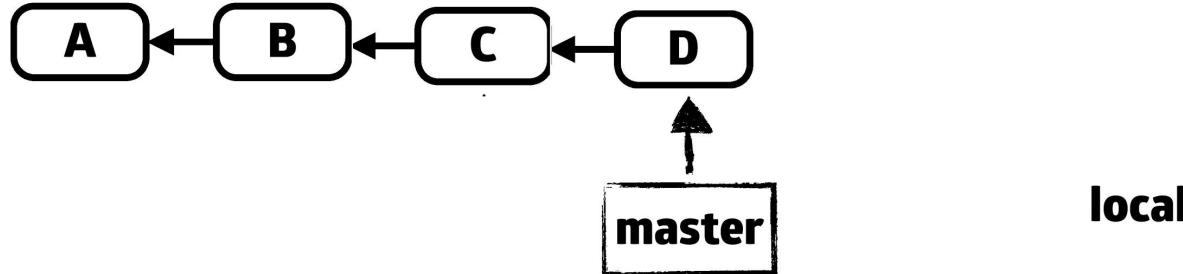
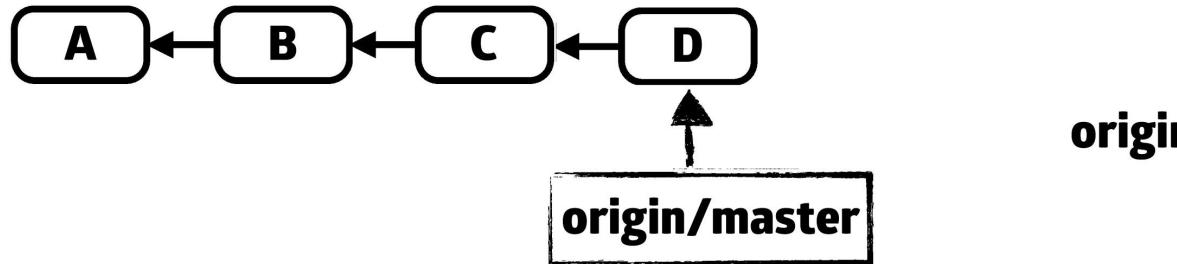


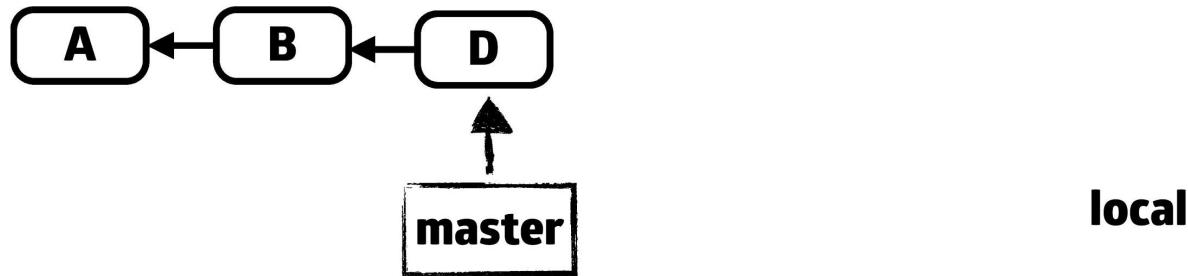
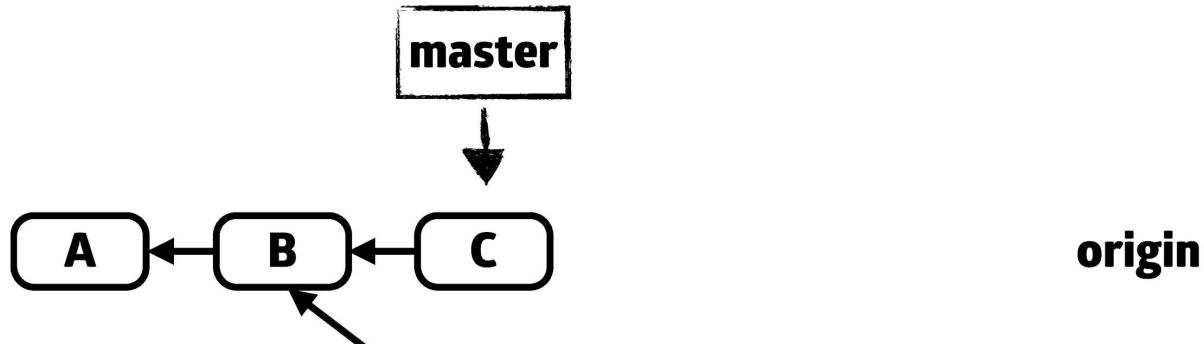


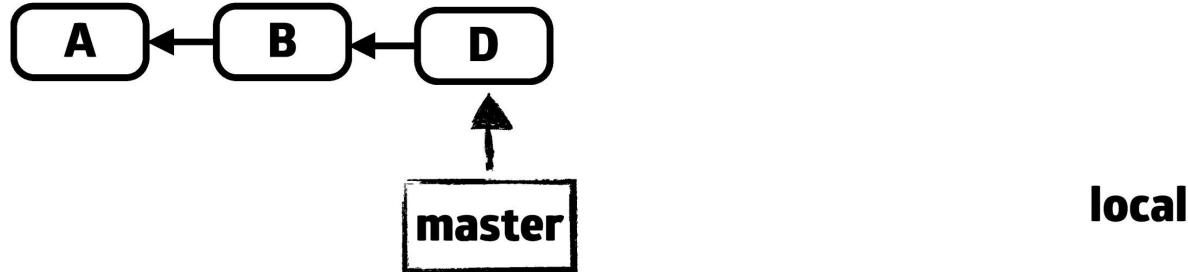
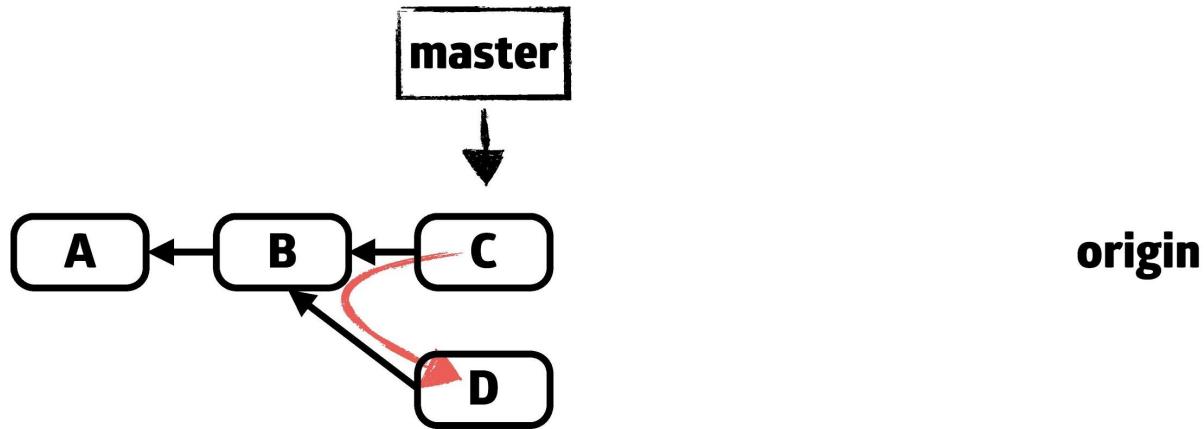
Qu'est-ce qu'un
push ?

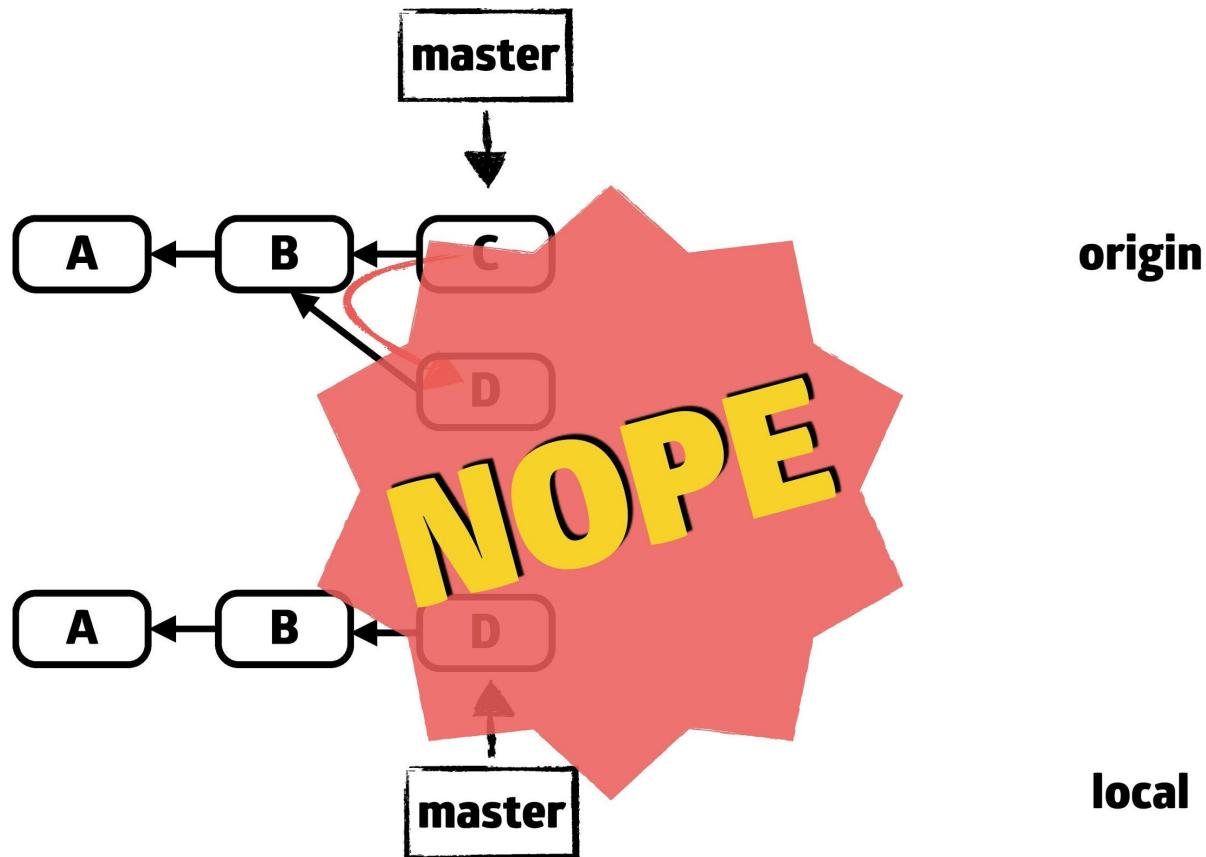


`git push origin master`









Qu'est-ce qu'on fait ?

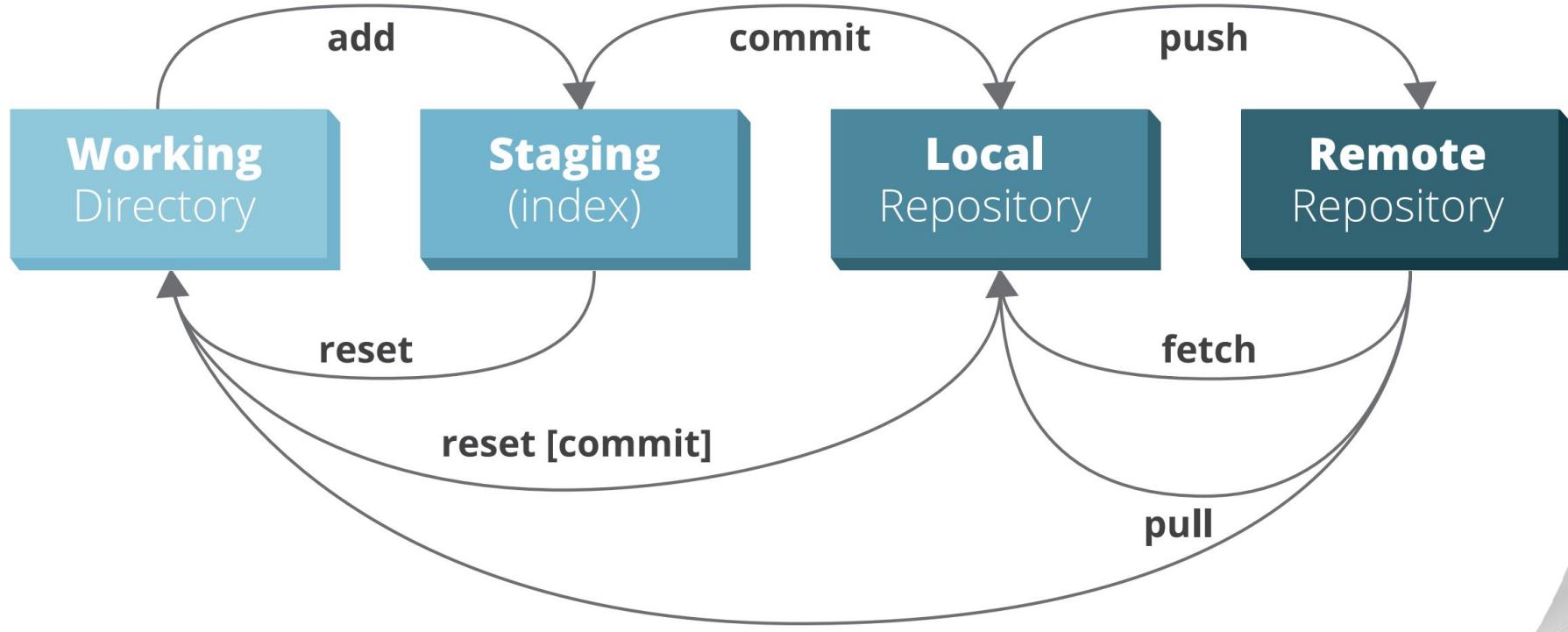


git pull origin master

git rebase origin/master

`git push --force`





HEAD ?

Trucs et astuces !



Annuler ses modifications
en local

git checkout .

Annuler ses modifications
en local d'un seul fichier

`git checkout -- filename`

Annuler des modifications dans le staging

`git reset filename`

Créer une branche

git branch ma_branche

git checkout -b ma_branch

Voir l'historique

git log


```
git log  
  --oneline  
  --decorate  
  --graph
```


Résoudre les conflits

git mergetool

Stash

git stash save
git stash pop
git stash list

.gitignore

Ne me git pas !

```
*.log  
/tmp/*  
*.pyc  
node_module  
vendor  
.DS_Store  
/tmp  
!/tmp/.gitkeep
```

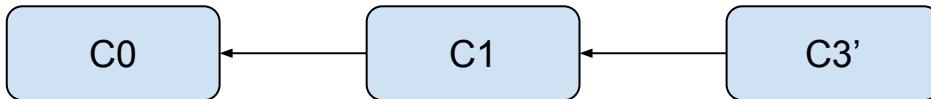
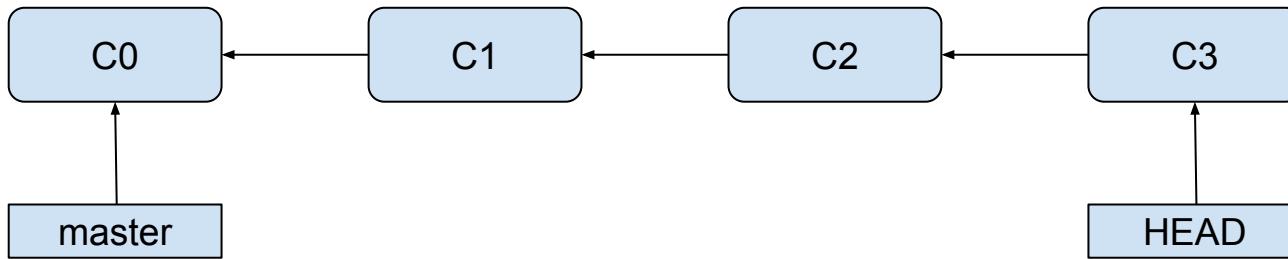
Nettoyer le graphe

git rebase -i HEAD~5

```
pick 31f6585 mocky
pick d8d7834 logger middleware
pick 7a00bee settings
pick 788f871 settings page
pick b22831b Settings routing

# Rebase 287f87f..b22831b onto 287f87f (5 commands)
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the commit message
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# f, fixup = like "squash", but discard this commit's log message
# x, exec = run command (the rest of the line) using shell
# d, drop = remove commit
#
```

Squash de C2



Workflow

Don't touch master !

Utilisez des branches

Pull request

Pull request

POULE

Badum tss



REQUEST

[Code](#)[Issues 675](#)[Pull requests 130](#)[Projects 3](#)[Insights](#)

Fixed mistake in exception expectation #24557

[Open](#) uuf6429 wants to merge 1 commit into `symfony:3.3` from `uuf6429:Fixed-mistake-in-exception-expectation`[Conversation 0](#)[Commits 1](#)[Files changed 4](#)

Changes from all commits ▾ Jump to... ▾ +29 -15

[Unified](#)[Split](#)[Review changes ▾](#) This repository has not been [set-up on Scrutinizer](#).9  src/Symfony/Bundle/FrameworkBundle/Tests/DependencyInjection/ConfigurationTest.php[No coverage](#)[View](#)

```
@@ -165,12 +165,11 @@ public function testAssetsCanBeEnabled()
165     */
166     public function testInvalidAssetsConfiguration(array $assetConfig, $expectedMessage)
167     {
168 -     $this->{method_exists($this, $_ = 'expectException') ? $_ : 'setExpectedException'}(
169 -         InvalidConfigurationException::class,
170 -         $expectedMessage
171 -     );
172 -     if (method_exists($this, 'expectExceptionMessage')) {
173         $this->expectExceptionMessage($expectedMessage);
174     }
175
176     $processor = new Processor();

```

```
165     */
166     public function testInvalidAssetsConfiguration(array $assetConfig, $expectedMessage)
167     {
168 +     if (method_exists($this, 'expectException')) {
169 +         $this->expectException(InvalidConfigurationException::class);
170
171         $this->expectExceptionMessage($expectedMessage);
172     } else {
173         $this->setExpectedException(InvalidConfigurationException::class,
174         $expectedMessage);
175     }
176     $processor = new Processor();

```

11  src/Symfony/Component/Form/Tests/ButtonBuilderTest.php[No coverage](#)[View](#)

```
@@ -13,6 +13,7 @@
```

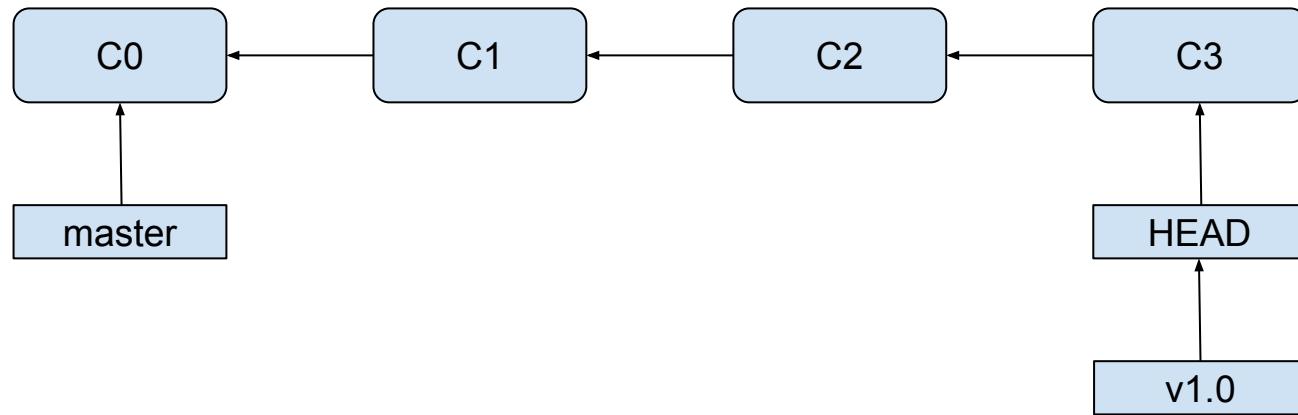
```
13
14     use PHPUnit\Framework\TestCase;
15     use Symfony\Component\Form\ButtonBuilder;
```

```
13
14     use PHPUnit\Framework\TestCase;
15     use Symfony\Component\Form\ButtonBuilder;
16     +use Symfony\Component\Form\Exception\InvalidArgumentException;
```

Faire des commit atomique

Faire des tag

git tag v1.0



Faites des conneries !

<http://bit.ly/2xZNsme>