

Gitless

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Contexte

- Git est complexe et difficile à maîtriser
- Les commandes ne sont pas orthogonales
- Produit de développement open source : big bazar

- **Gitless** : initiative de simplification [<http://gitless.com>]
- Totalemment compatible avec *git*
dépôts existants, github, gitlab, gogs, gitea
- Après l'avoir testé, je l'ai adopté !
- Très bien pour débutants intimidés par la complexité de git ou ceux qui google les commandes comme moi

Workflow local simple

```
$ mkdir gitlessDemo
```

```
$ cd gitlessDemo
```

```
$ gl init
```

✓ Local repo created in /tmp/gitlessDemo

```
$ touch README.md
```

```
$ gl track README.md
```

✓ File README.md is now a tracked file

```
$ gl commit -m "initial commit"
```

✓ Commit succeeded

```
...
```

Workflow local simple

\$ gl status

On branch **master**, repo-directory //

Tracked files with modifications:

- these will be automatically considered for commit
- use `gl untrack f` if you don't want to track changes to file `f`
- if file `f` was committed before, use `gl checkout f` to discard local changes

There are no tracked files with modifications to list

Untracked files:

- these won't be considered for commit
- use `gl track f` if you want to track changes to file `f`

There are no untracked files to list

Workflow local simple

```
$ gl branch -c develop
```

```
✓ Created new branch develop
```

```
$ gl branch
```

```
List of branches:
```

- do gl branch -c b to create branch b
- do gl branch -d b to delete branch b
- do gl switch b to switch to branch b
- * = current branch

```
develop
```

```
* master
```

```
$ gl switch develop
```

```
✓ Switched to branch develop
```

Workflow local simple

```
$ echo "Hello World" > README.md
```

```
$ gl commit -m "Hello World"
```

✓ Commit succeeded

...

```
$ gl switch master
```

✓ Switched to branch master

```
$ gl merge develop
```

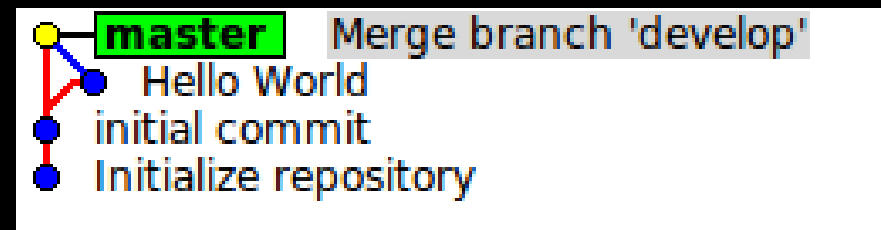
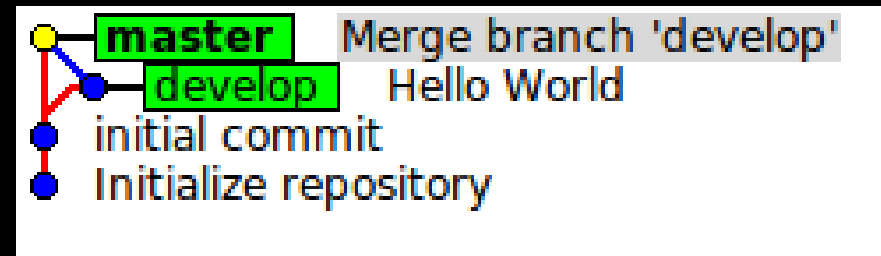
✓ Merge succeeded

```
$ gl branch -d develop
```

```
Branch develop will be removed . Do you wish to continue? (y/N)
```

```
> y
```

✓ Branch develop removed successfully

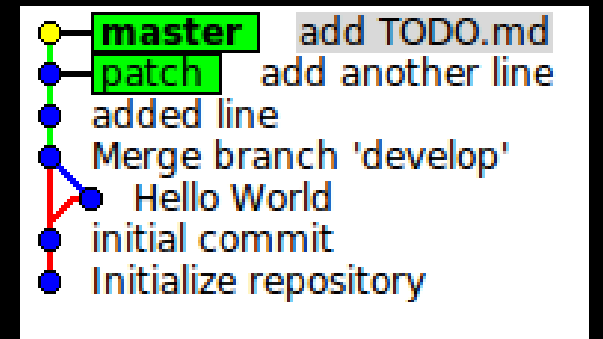
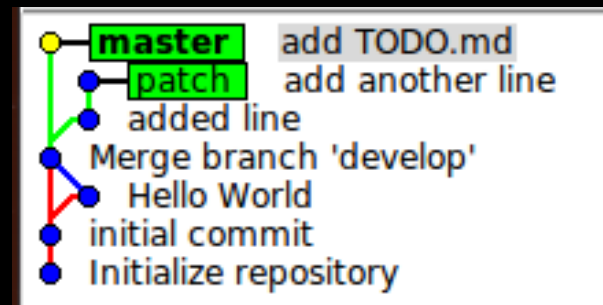
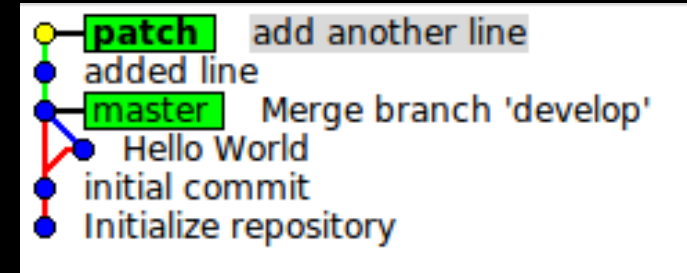


Workflow local simple

```
$ gl branch -c patch
$ gl switch patch
$ echo "added line" >> README.md
$ gl commit -m "added line"
$ echo "add another line" >> README.md
$ gl commit -m "add another line"
```

```
$ gl switch master
$ touch TODO.md
$ gl track TODO.md
$ gl commit -m "add TODO.md"
```

```
$ gl fuse patch
```



Utilisation des remotes

... create an empty project demoGitless in cea gitlab ...

```
$ gl remote -c origin git@drf-gitlab.cea.fr:chmeessen/demoGitless.git
```

```
✓ Remote origin mapping to git@drf-  
gitlab.cea.fr:chmeessen/demoGitless.git created successfully
```

```
$ gl branch -c origin/master
```

```
Branch master will be created in remote repository origin. Do you wish to  
continue? (y/N)
```

```
> y
```

```
✓ Created new branch master in remote repository origin
```

```
$ gl branch
```

```
patch
```

```
* master
```

```
$ gl branch -su origin/master (⚠ push implicite)
```

```
✓ Current branch master set to track origin/master
```


Utilisation des remotes

push

```
$ echo "start using gitless with a remote repository" >> TODO.md
```

```
$ gl commit -m "add todo item" -o TODO.md
```

```
$ gl publish
```

pull

```
$ gl fuse
```

create local tag

```
$ gl tag -c v0.1
```

create remote tag

```
$ gl tag -c origin/v0.1
```

Retour d'expérience

- + Facile à apprendre
- + Intuitif et simple d'utilisation
- + Plug & play : binaire fournit, compatible avec git

- Beta \Rightarrow il reste quelques bugs
- Rares bugs avec switch qui utilise stash \Rightarrow
si supprime stash alors perte de modifications ou de fichiers
- Fonctions limitées (vient avec simplicité)

Retour d'expérience positif, mais attention aux bugs avec le changement de branches.