

Git un système de gestion de versions

ALBERT SHIH

Direction Informatique
Observatoire de Paris

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Git

- Système de gestion de versions.
- Lancé par Linus Torvalds.
- Largement utilisé, GitHub.
- Beaucoup de documentation.
- Gestion de version dé-centraliser (ou centralisé).
- La doc `man git-XXXX` par exemple `man git-add`

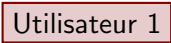
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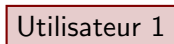
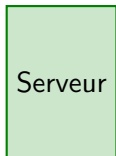
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- Un dépôt git → `.git`.

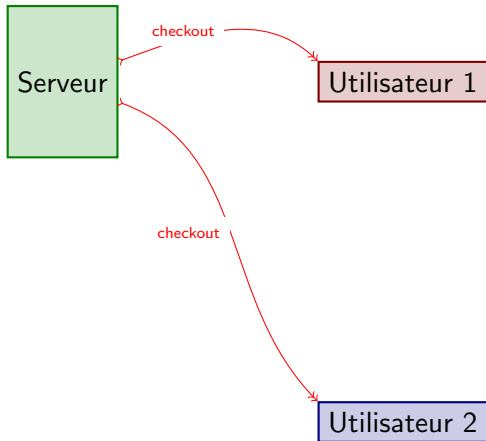
Centralisé



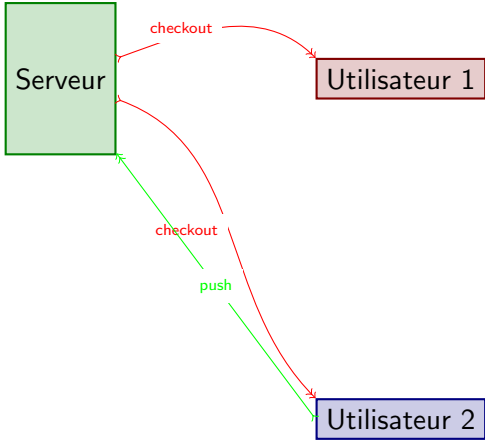
Centralisé



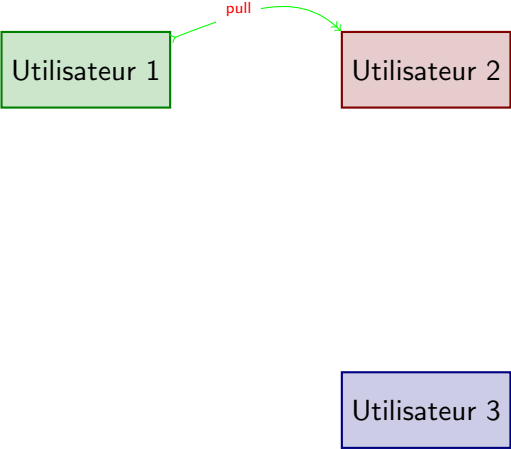
Centralisé



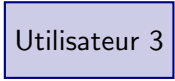
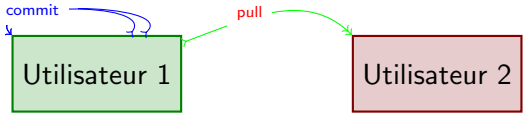
Centralisé



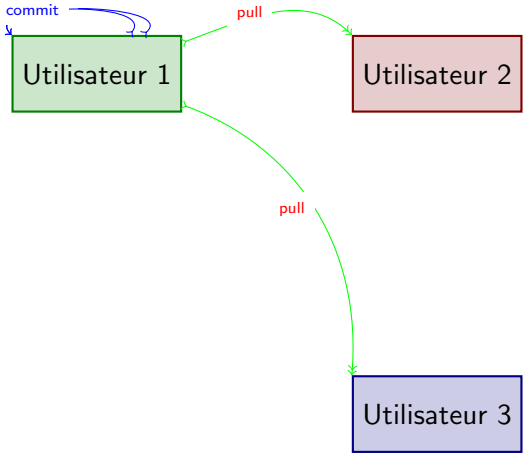
Décentralisé



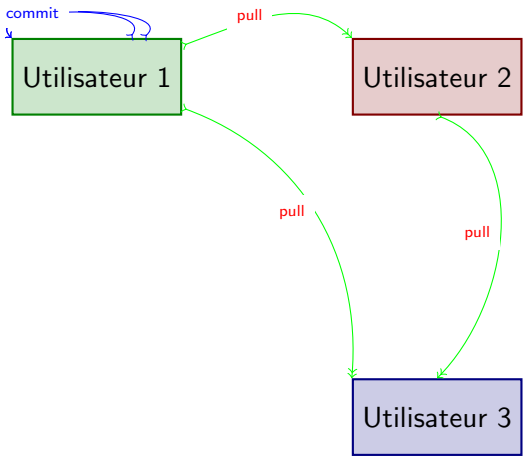
Décentralisé



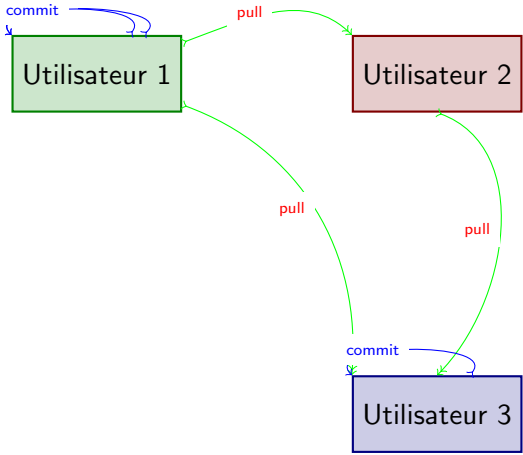
Décentralisé



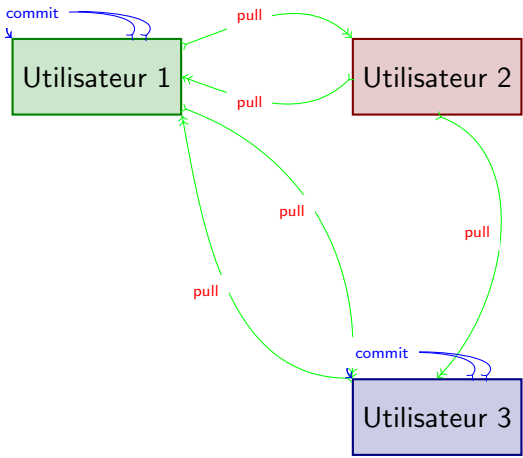
Décentralisé



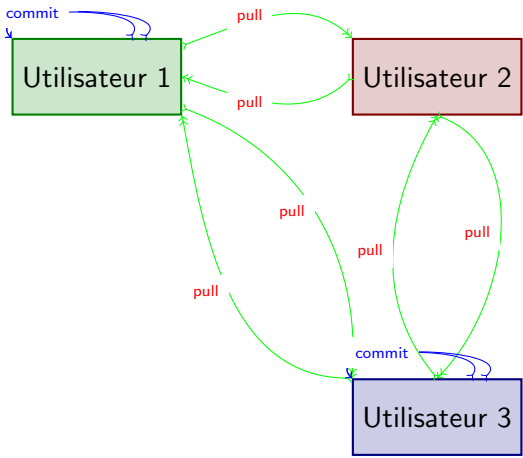
Décentralisé



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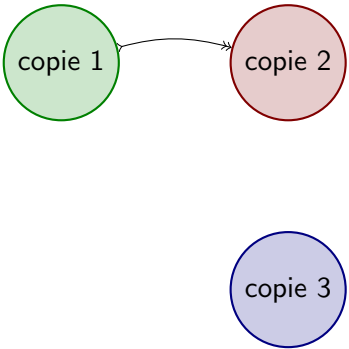


Décentralisé



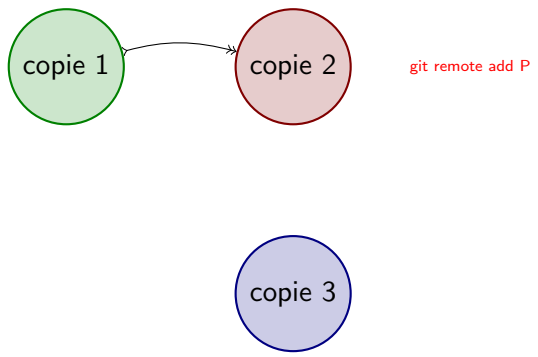
Mon code

Votre code



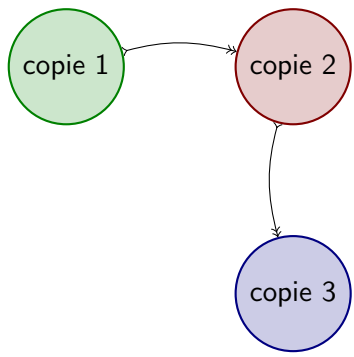
Mon code

Votre code



Mon code

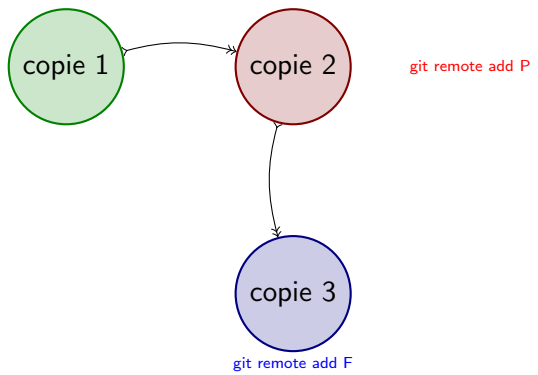
Votre code



git remote add P

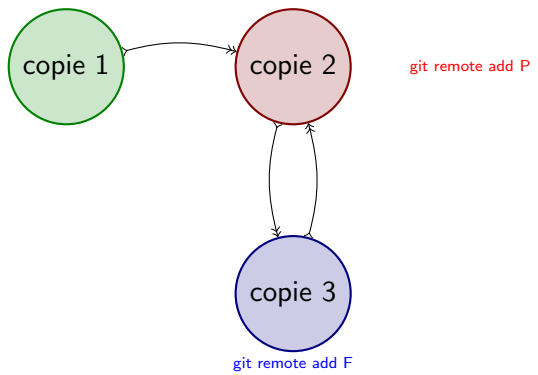
Mon code

Votre code



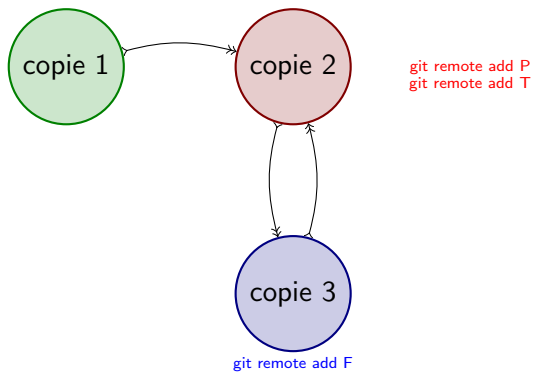
Mon code

Votre code



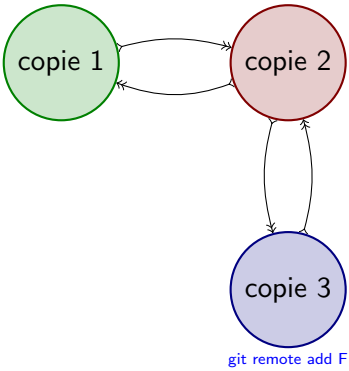
Mon code

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Mon code

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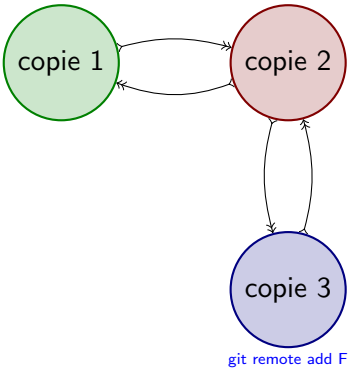


git remote add P
git remote add T

Mon code

Votre code

git remote add F

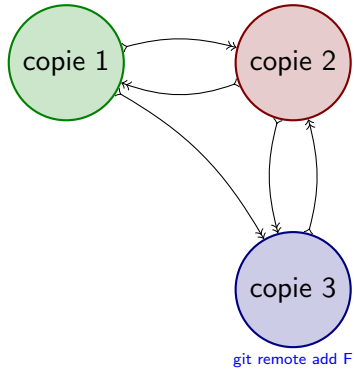


git remote add P
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Mon code

Votre code

git remote add F

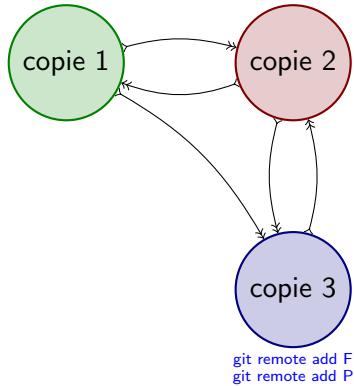


git remote add P
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Mon code

Votre code

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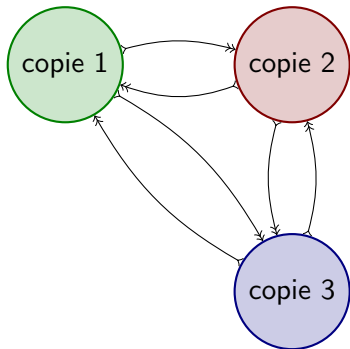
git remote add P
git remote add T

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git remote add P

Mon code

Votre code

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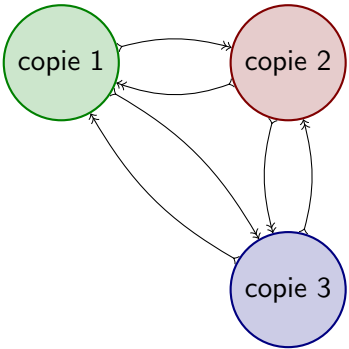
git remote add P
git remote add T

git remote add F
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Mon code

Votre code

git remote add F
git remote add T

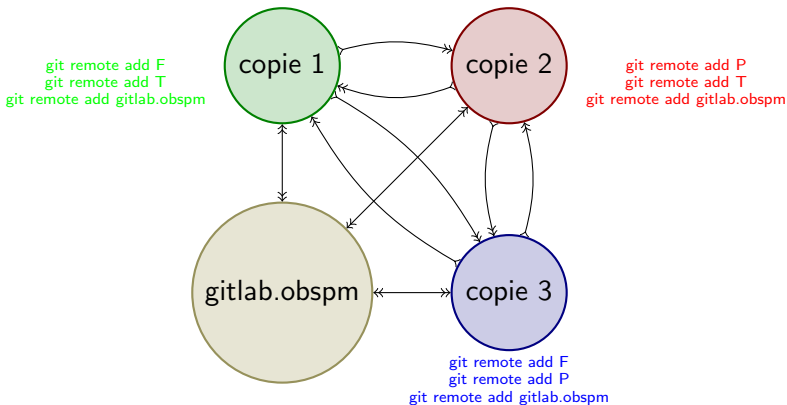


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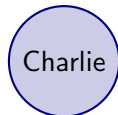
Mon code

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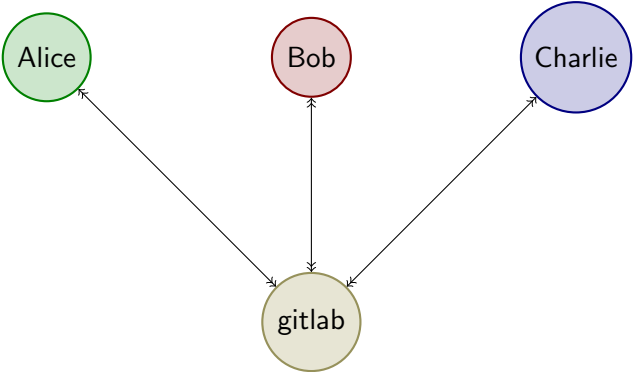
Travail à plusieurs

Projet avec Alice, Bob et Charlie.



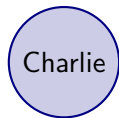
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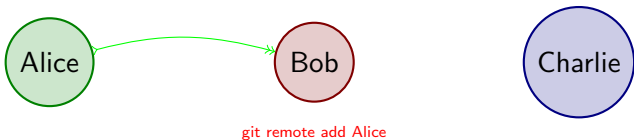
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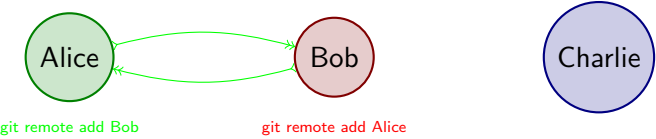
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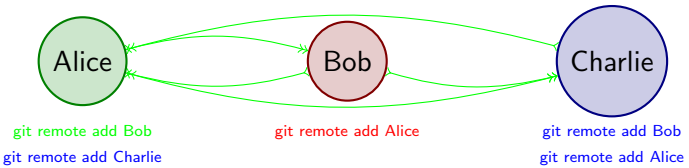
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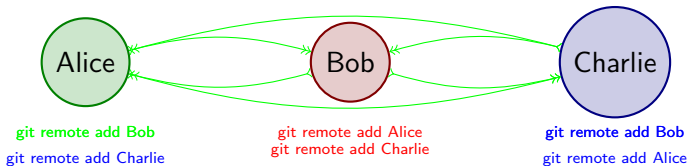
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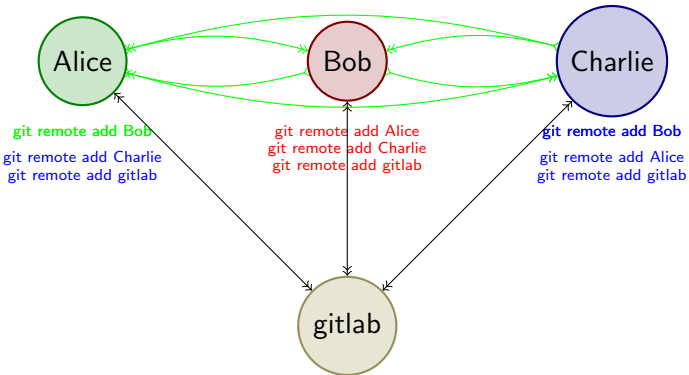
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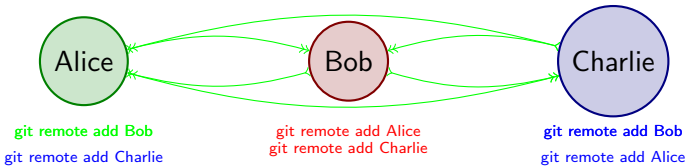
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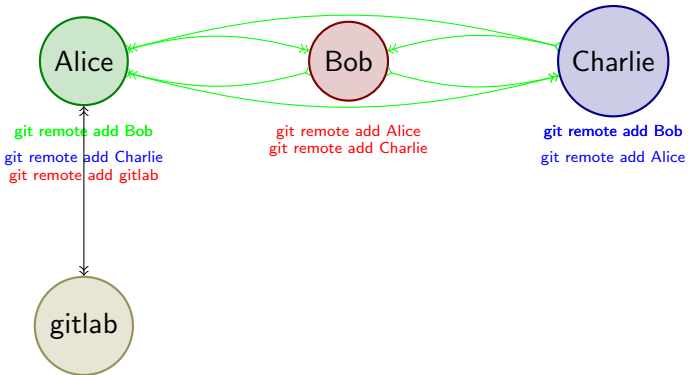
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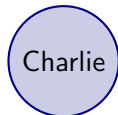
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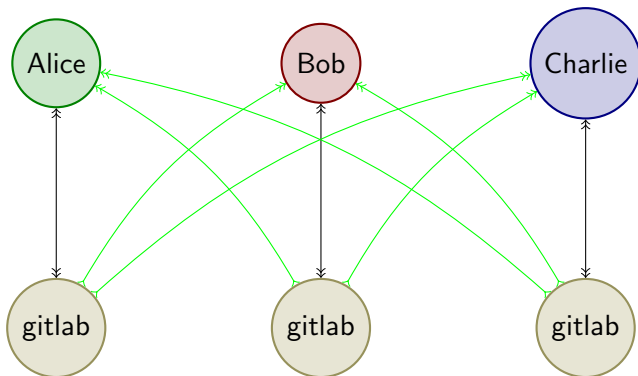
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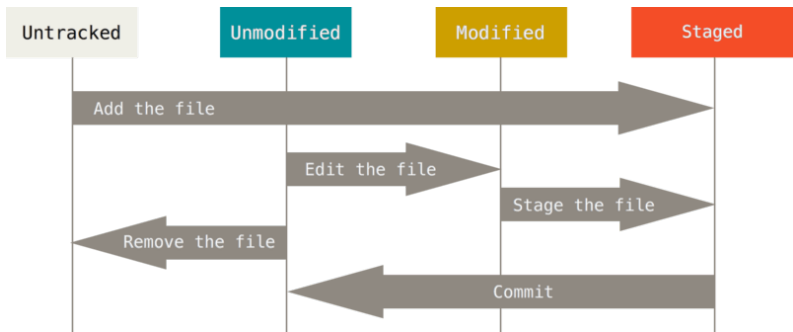
Projet avec Alice, Bob et Charlie.



init

- git init, bare
- git config/global/local
- user.name, user.email, core.editor, color.ui auto
- vi/add/status/commit/
- vi/add/status/vi/status/commit
- .gitignore

init



Intégration

- bash/zsh : starship

Intégration

- bash/zsh : starship
- delta

Intégration

- bash/zsh : starship
- delta
- vim/neovim : git-conflict etc...

Git

- `git add -p`
- `git amend`
- `git log`, `—git log —oneline—`, `—git log -p—`, `—git log -p
xxx...xxxx—`
- `git diff XXX XXX`
- `git diff XXX XXX -- fichier`
- `Repos1 + git clone Repos1 Repos2 + commit + pull`
- `remote.`
- `merge et conflit.`
- `revert.`
- `reset.`

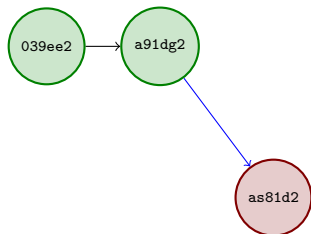
Git

- `git init bare`
- multiple remote
- gitlab

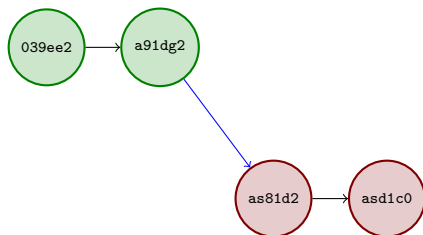
Branches



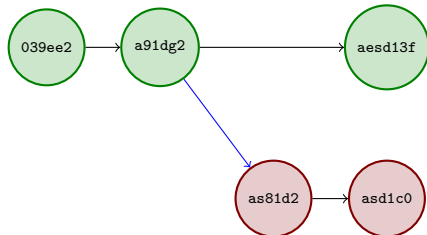
Branches



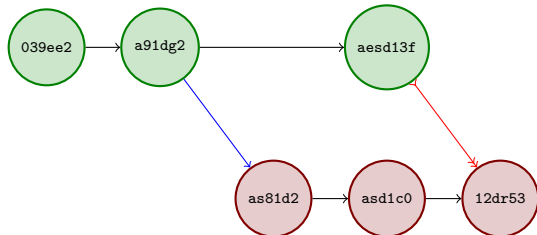
Branches



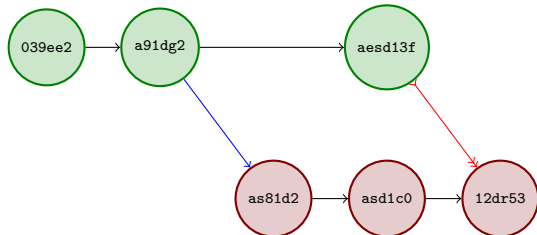
Branches



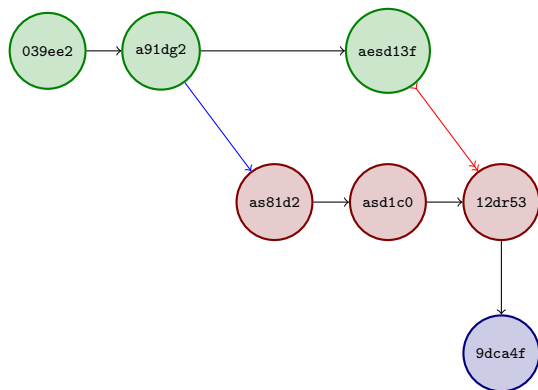
Branches



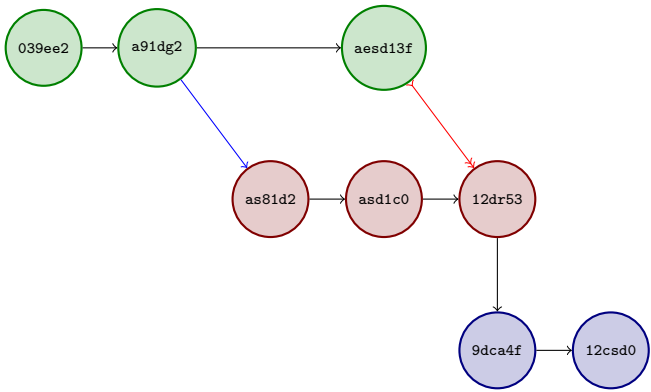
Branches



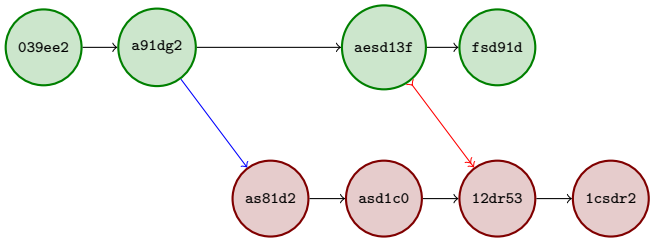
Branches



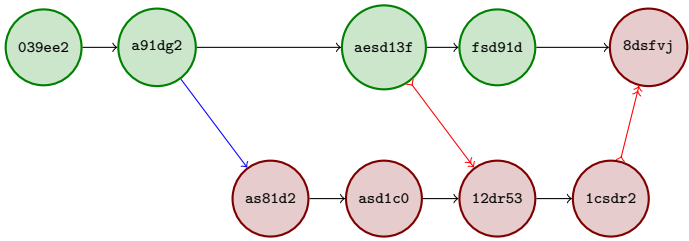
Branches



Branches



Branches



Mon code

prod

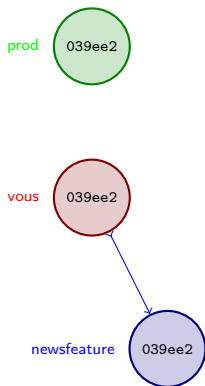
039ee2

vous

039ee2

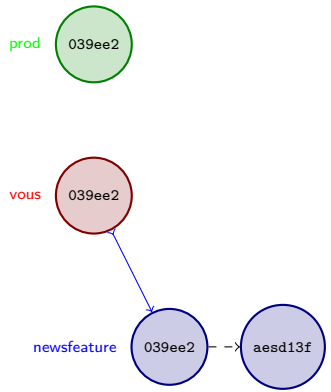
Mon code

```
git checkout -b newfeature
```



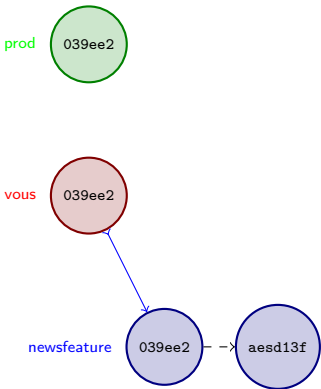
Mon code

```
vi;git commit;vi;git commit;etc...
```



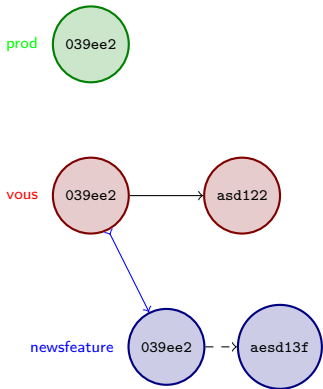
Mon code

```
git checkout master;vi;git commit;etc...
```



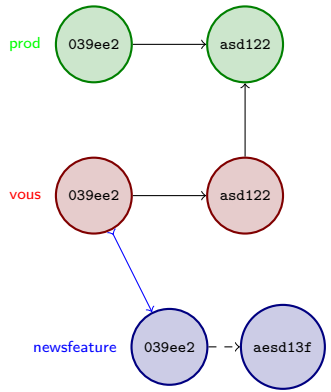
Mon code

```
git checkout master;vi;git commit;etc...
```

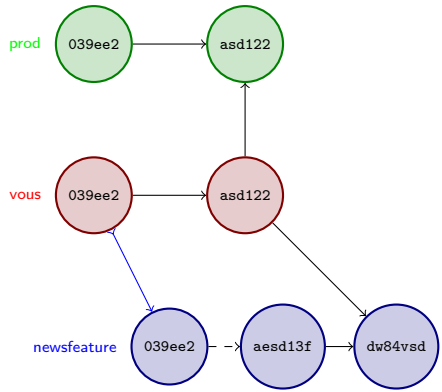


Mon code

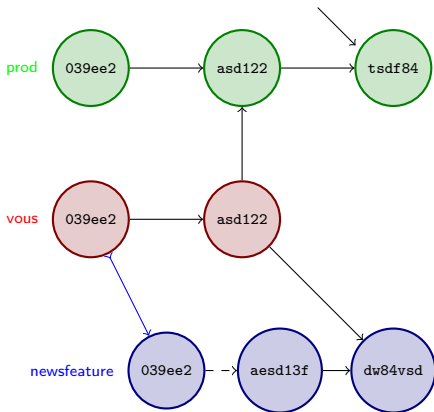
```
ssh prod;git pull vous master...
```



Mon code

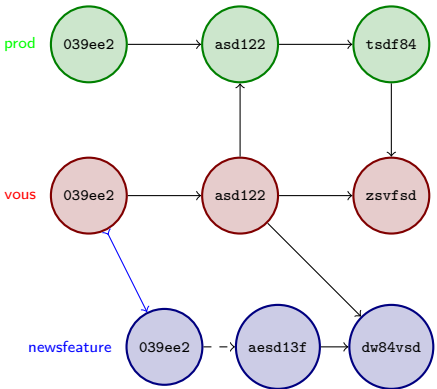


Mon code



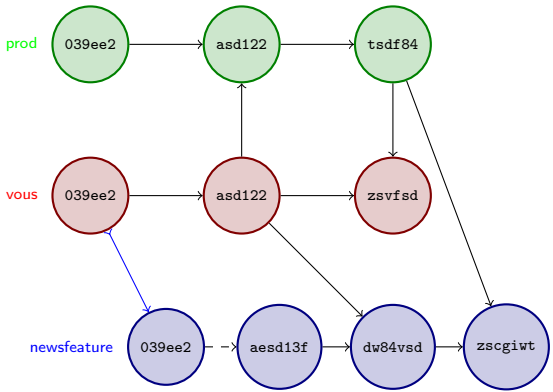
Mon code

```
ssh vous;git checkout master;git pull
```

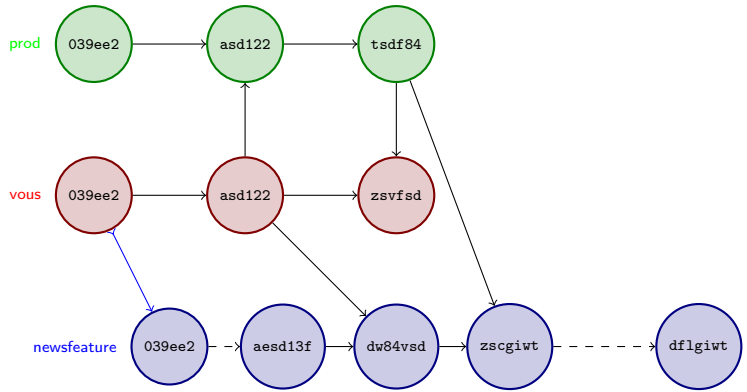


Mon code

```
git checkout newfeature;git pull origin master
```

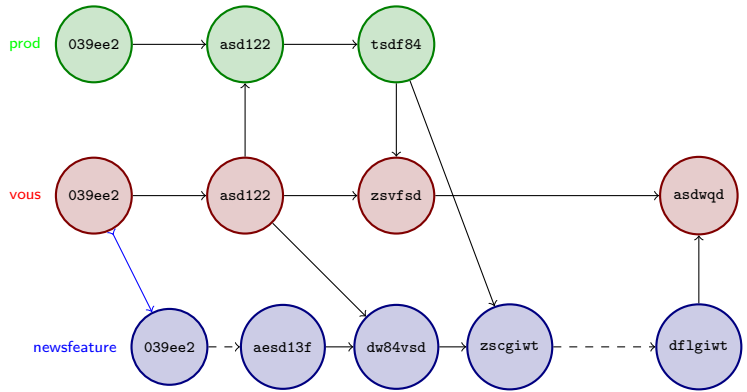


Mon code

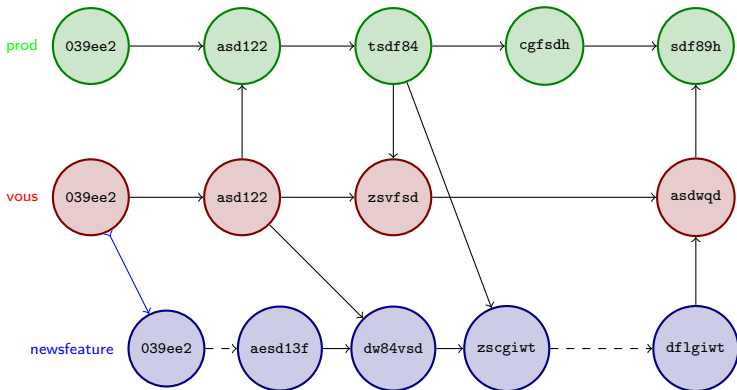


Mon code

```
git checkout master;git merge newfeature
```



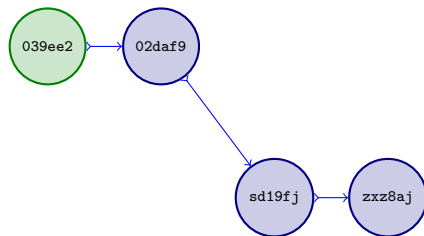
Mon code



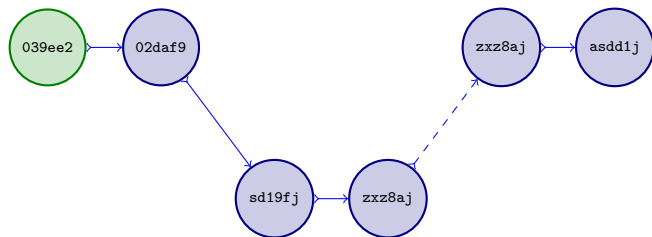
Fast forward



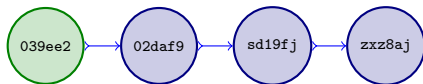
Fast forward



Fast forward



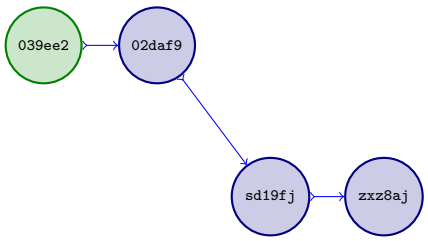
Fast forward



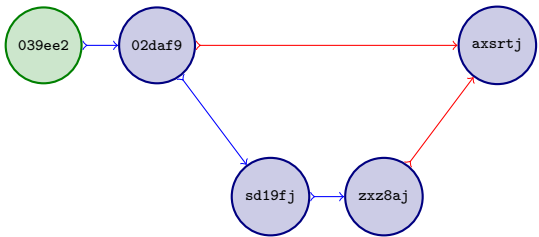
Fast forward



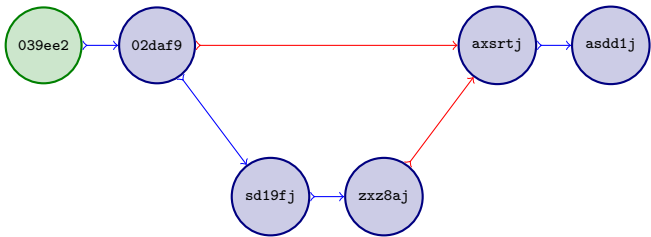
-no-ff



-no-ff

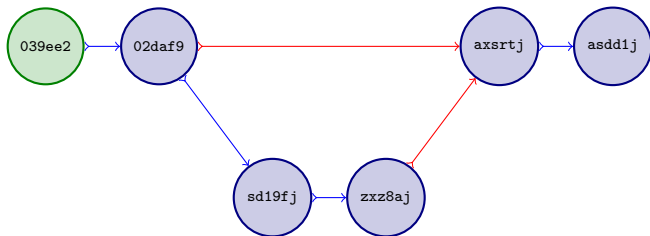


-no-ff

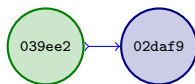


-no-ff

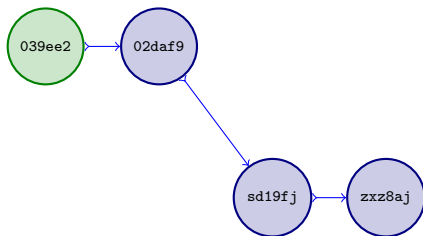
```
git merge --no-ff
```



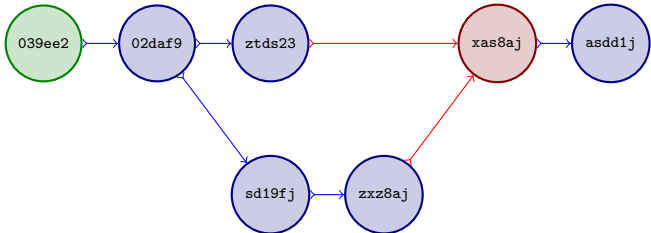
No fast forward



No fast forward

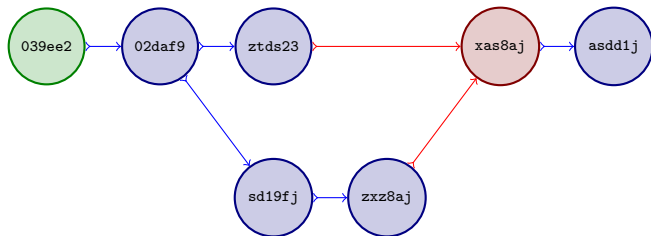


No fast forward

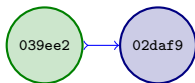


No fast forward

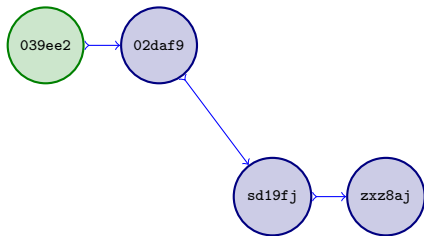
no fast forward



rebase + ff

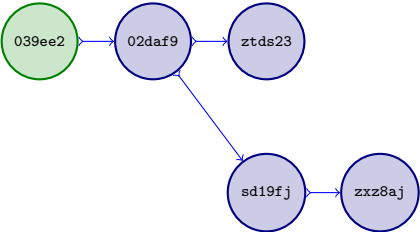


rebase + ff



rebase + ff

git rebase



Git

- `git checkout -b branch`
- multiple remote
- exemple rebase.
- cherry-pick

Pour aller plus loin

- tags
- rerere
- bisect
- subtree
- submodules

