

Chapitre 10

Git Partie 2

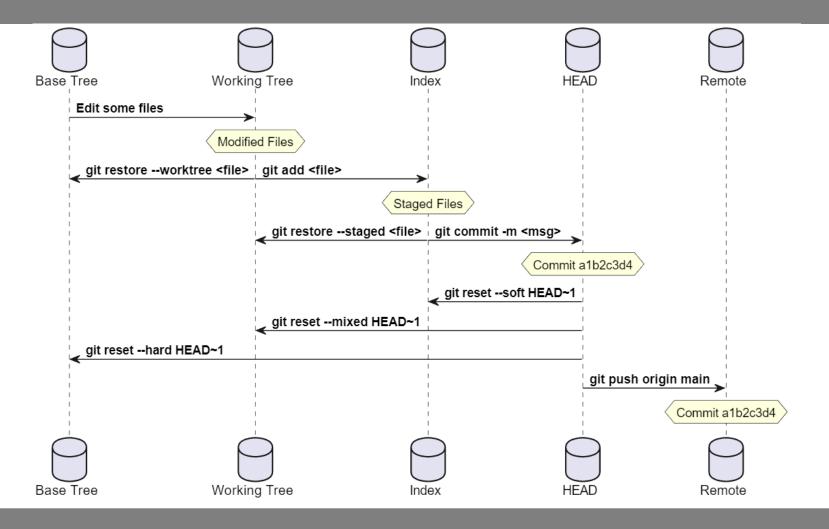


Plan

- 1. Vue d'ensemble
- 2. État courant
- 3.git add
- 4.git commit
- 5. Undo



Vue d'ensemble





git status

```
repo
```

index

Working Tree

```
On branch main
Your branch is up to date with 'origin/main'.
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified: Le_Callennec_Benoit.txt
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
         modified: Le Callennec Benoit 2.txt
Untracked files:
   (use "git add <file>..." to include in what will be committed)
         Le Callennec Benoit 3.txt
```



git diff différences entre Working tree et index git diff --staged différences entre index et repo

```
diff --git a/Le_Callennec_Benoit_2.txt b/Le_Callennec_Benoit_2.txt
index d93666c..d1cf665 100644
--- a/Le_Callennec_Benoit_2.txt
+++ b/Le_Callennec_Benoit_2.txt
@@ -3,3 +3,4 @@ Version 0.2: parallel commit.
Version 0.3: parallel commit 2.
Version 0.4: parallel commit 3.
Version 0.5: parallel commit coming from main.
+Version 0.6: some modifications to mark it as modified.
```



git log tous les commits

```
mmit 7c37a406966c5e0401c8d829fb01d34492b89fd7 (HEAD -> main)
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
Date: Sat Dec 2 19:02:48 2023 +0100
   DONE Commit for testing log command
commit 4681cfb6898c692b136e178011429f0307f3114f (origin/main, origin/HEAD)
Merge: 1358c5c 40818e5
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
Date: Sun Nov 26 20:35:34 2023 +0100
   Merge branch 'BLC_MergeCommit'
commit 1358c5c48658575abb476d78174955c6f9341c19
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
Date: Sun Nov 26 20:26:59 2023 +0100
   DONE A commit from main.
commit 40818e523bd9a605a9d9ae91fc72366df457a182
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
Date: Sun Nov 26 20:25:58 2023 +0100
   DONE Some important features here.
```



git log -3 les 3 derniers commits

```
commit 7c37a406966c5e0401c8d829fb01d34492b89fd7 (HEAD -> main)
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
Date: Sat Dec 2 19:02:48 2023 +0100

DONE Commit for testing log command

commit 4681cfb6898c692b136e178011429f0307f3114f (origin/main, origin/HEAD)
Merge: 1358c5c 40818e5
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
Date: Sun Nov 26 20:35:34 2023 +0100

Merge branch 'BLC_MergeCommit'

commit 1358c5c48658575abb476d78174955c6f9341c19
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
Date: Sun Nov 26 20:26:59 2023 +0100

DONE A commit from main.
```



git log origin..HEAD les commits entre origin et HEAD

commit 7c37a406966c5e0401c8d829fb01d34492b89fd7 (**HEAD -> main**)

Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>

Date: Sat Dec 2 19:02:48 2023 +0100

DONE Commit for testing log command



git log --patch les commits avec les patchs

```
commit 7c37a406966c5e0401c8d829fb01d34492b89fd7 (HEAD -> main)
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
Date: Sat Dec 2 19:02:48 2023 +0100
    DONE Commit for testing log command
diff --git a/Le_Callennec_Benoit.txt b/Le_Callennec_Benoit.txt
index df21b7d..57e43bc 100644
--- a/Le Callennec Benoit.txt
+++ b/Le Callennec Benoit.txt
@@ -1,5 +1,4 @@
 Author: Benoit Le Callennec
 Version 0.1: first edit to this file.
 Version 0.2: second edit to this file to generate a merge commit.
 No newline at end of file
+Version 0.3: some modifications to mark it as modified.
commit 4681cfb6898c692b136e178011429f0307f3114f (origin/main, origin/HEAD)
Merge: 1358c5c 40818e5
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
Date: Sun Nov 26 20:35:34 2023 +0100
    Merge branch 'BLC MergeCommit'
```



git log <file> les commits modifiant <file>

```
commit 40818e523bd9a605a9d9ae91fc72366df457a182
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
       Sun Nov 26 20:25:58 2023 +0100
    DONE Some important features here.
diff --git a/Le_Callennec_Benoit.txt b/Le_Callennec_Benoit.txt
index 0a64225..df21b7d 100644
--- a/Le Callennec Benoit.txt
+++ b/Le Callennec Benoit.txt
@@ -1,4 +1,5 @@
Author: Benoit Le Callennec
Version 0.1: first edit to this file.
+Version 0.2: second edit to this file to generate a merge commit.
 No newline at end of file
commit 58b069ab95a7bbda6face500aa2ee16ebb4f5d2f
Author: Benoit Le Callennec <benoit.lecallennec@he-arc.ch>
       Mon Dec 5 14:52:11 2022 +0100
Date:
```



git log -- <file> si <file> a été effacé par le passé



git add - part 2

git add

Que se passe-t-il si on modifie un fichier déjà ajouté dans l'index ?



git add — part 2

git add

```
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified: Le Callennec Benoit 2.txt
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Le Callennec Benoit 3.txt
```



git add - part 2

git add

```
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified: Le Callennec Benoit 2.txt
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified: Le Callennec Benoit 2.txt
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Le Callennec Benoit 3.txt
```



git commit --verbose

git commit --verbose

```
with '#' will be ignored, and an empty message aborts the commit.
 On branch main
 Your branch is ahead of 'origin/main' by 1 commit.
   (use "git push" to publish your local commits)
 Changes to be committed:
 Untracked files:
# Everything below it will be ignored.
diff --git a/Le Callennec Benoit 2.txt b/Le Callennec Benoit 2.txt
index d93666c..74a0b8c 100644
+++ b/Le Callennec Benoit 2.txt
@@ -3,3 +3,5 @@ Version 0.2: parallel commit.
Version 0.3: parallel commit 2.
Version 0.4: parallel commit 3.
Version 0.5: parallel commit coming from main.
+Version 0.6: some modifications to mark it as modified.
+Version 0.7: some modifications while already in index.
```



git commit --all

git commit --all

```
git add *
git commit ...
```

Dangereux car on peut commit des modifications par erreur



Undo

git restore --worktree <file>

Undo toutes les modifications courantes faites à <file>



Undo

git restore --staged <file>

Retire les modifications faites à <file> depuis l'index



Identifier un commit

Avec son hash

Avec sa branche -> dernier commit sur cette branche

HEAD → le dernier commit

HEAD~1 → l'avant-dernier / pénultième commit

HEAD~2 → l'antépénultième

HEAD~3 → Le préantépénultième



Identifier plusieurs commits

<from>..<to>

HEAD~3..HEAD~1 → tous les commits entre le préantépénultième et l'avant dernier.

origin/main..HEAD → tous les commits à push sur origin/main



Undo - Suite

```
git reset --soft <commit>
git reset --mixed <commit>
git reset --hard <commit>
```



Vue d'ensemble

