

# Local repository

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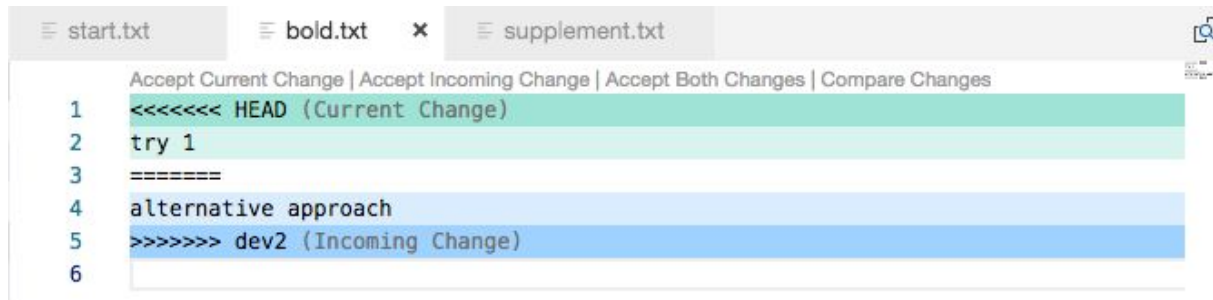
Le premier commit est envoyé en local

```
Air-de-Caroline:project Cocolollipop$ git init
Initialized empty Git repository in /Users/Cocolollipop/Desktop/project/.git/
Air-de-Caroline:project Cocolollipop$ git add start.txt
Air-de-Caroline:project Cocolollipop$ git diff
diff --git a/start.txt b/start.txt
index b6fc4c6..23294b0 100644
--- a/start.txt
+++ b/start.txt
@@ -1,1 @@
-hello
\ No newline at end of file
+hello2
\ No newline at end of file
Air-de-Caroline:project Cocolollipop$ git commit -m "first commit"
[master (root-commit) af01b8d] first commit
1 file changed, 1 insertion(+)
create mode 100644 start.txt
Air-de-Caroline:project Cocolollipop$ git log --graph --decorate --oneline --all
* af01b8d (HEAD -> master) first commit
Air-de-Caroline:project Cocolollipop$ git branch dev
Air-de-Caroline:project Cocolollipop$ git checkout dev
M      start.txt
Switched to branch 'dev'
Air-de-Caroline:project Cocolollipop$ git add start.txt
Air-de-Caroline:project Cocolollipop$ git add bold.txt
Air-de-Caroline:project Cocolollipop$ git commit -m "deuxieme commit"
[dev bc87d18] deuxieme commit
2 files changed, 2 insertions(+), 1 deletion(-)
create mode 100644 bold.txt
Air-de-Caroline:project Cocolollipop$ git log --graph --decorate --oneline --all
* bc87d18 (HEAD -> dev) deuxieme commit
* af01b8d (master) first commit
Air-de-Caroline:project Cocolollipop$ git checkout master
Switched to branch 'master'
Air-de-Caroline:project Cocolollipop$ git branch dev2
Air-de-Caroline:project Cocolollipop$ git checkout dev2
Switched to branch 'dev2'
Air-de-Caroline:project Cocolollipop$ git add *
Air-de-Caroline:project Cocolollipop$ git commit -m "second branch"
[dev2 47ac286] second branch
2 files changed, 2 insertions(+), 1 deletion(-)
create mode 100644 bold.txt
create mode 100644 supplement.txt
Air-de-Caroline:project Cocolollipop$ git log --graph --decorate --oneline --all
* 47ac286 (HEAD -> dev2) second branch
| * bc87d18 (dev) deuxieme commit
|/
* af01b8d (master) first commit
Air-de-Caroline:project Cocolollipop$ git checkout master
Switched to branch 'master'
Air-de-Caroline:project Cocolollipop$ git merge dev
Updating af01b8d..bc87d18
Fast-forward
 bold.txt | 1 +
 start.txt | 2 +-
2 files changed, 2 insertions(+), 1 deletion(-)
create mode 100644 bold.txt
Air-de-Caroline:project Cocolollipop$ git log --graph --decorate --oneline --all
* 47ac286 (dev2) second branch
| * bc87d18 (HEAD -> master, dev) deuxieme commit
```

## Merge :

On va avoir un conflit car dans la version bold.txt de la branche dev on a “try 1” tandis qu’à la même ligne dans la version bold.txt de la branche dev2 on a “alternative approach”.

Par conséquent, git ne sait pas quelle modification apporter au fichier : il demande à l'utilisateur de gérer manuellement le conflit pour poursuivre



```
Air-de-Caroline:project Cocolollipop$ git merge dev2
Auto-merging bold.txt
CONFLICT (add/add): Merge conflict in bold.txt
Automatic merge failed; fix conflicts and then commit the result.
Air-de-Caroline:project Cocolollipop$ git add bold.txt
Air-de-Caroline:project Cocolollipop$ git commit -m "gestion conflit"
[master 268a2ad] gestion conflit
Air-de-Caroline:project Cocolollipop$ git log --graph --decorate --oneline --all
* 268a2ad (HEAD -> master) gestion conflit
| \
| * 47ac286 (dev2) second branch
| * | bc87d18 (dev) deuxieme commit
| /
* af01b8d first commit
Air-de-Caroline:project Cocolollipop$
```

## Remote repository

**Predict what master and origin/master refer to in R2, and check. What is in the file bold.txt in R2? Why?**

master et origin/master se réfèrent au commit “ajout prenom” dans R1

```
Air-de-Caroline:R2 Cocolollipop$ git log --graph --decorate --oneline --all
* c194a01 (origin/master, origin/HEAD) ajout prenom
* 268a2ad (HEAD -> master) gestion conflit
| \
| * 47ac286 (origin/dev2) second branch
| * | bc87d18 (origin/dev) deuxieme commit
| /
* af01b8d first commit
Air-de-Caroline:R2 Cocolollipop$
```

Pourtant, dans bold.txt le prénom n'a pas été ajouté. En effet, R2 se réfère à R1 mais les modifications apportées ne sont pas répercutées directement : il faut utiliser git fetch pour apporter les modifications nécessaires

## Remote repository on GitHub

**Modify something in R1, commit. Try to send it to RG. Why is it refused? How can you effectively send your last modification online? Send it to your RG repository.**

```
Air-de-Caroline:R1 Cocolollipop$ git push
To https://github.com/Cocolollipop/RG.git
 ! [rejected]          master -> master (fetch first)
error: failed to push some refs to 'https://github.com/Cocolollipop/RG.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
Air-de-Caroline:R1 Cocolollipop$
```

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Il refuse car il y a un décalage entre R1 et RG.

Pour envoyer les modifications il faut faire un commit, un fetch, pull et push