

Original article: [Git Undo Merge – How to Revert the Last Merge Commit in Git](#)

브랜치는 이미 프로덕션에 있는 코드를 함부로 변경하지 않으면서 작업할 수 있도록 해주는 git의 필수적인 부분입니다.

다른 브랜치에서 작업을 마친 후 main 브랜치에 병합(merge, 이하 머지)하여 방금 통합한 기능이나 버그 수정을 반영하고자 할 것입니다.

만약 작업을 더 해야 했다는 사실을 머지 완료 후 알아차렸다면, 혹은 실수로 머지를 했다면 어떻게 해야 할까요?

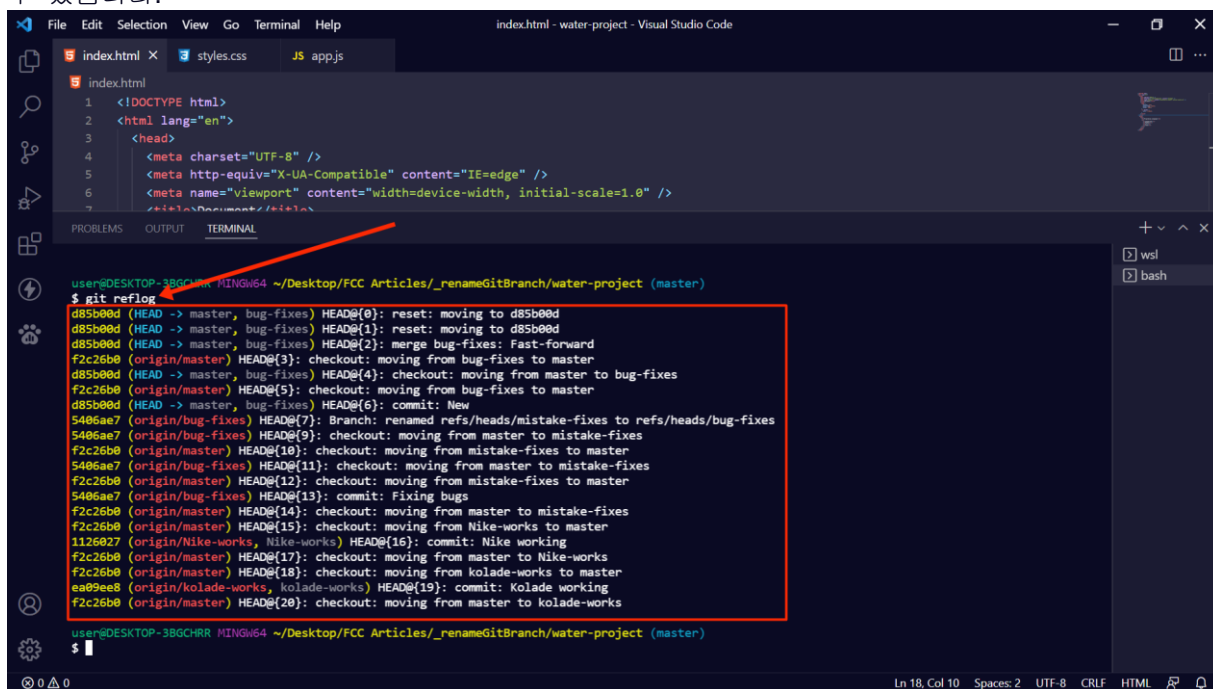
깃에서는 거의 모든 것을 되돌릴 수 있습니다. 이 글에서는 마지막으로 커밋한 상태로 되돌릴 수 있도록 머지를 실행 취소하는 방법을 보여드리겠습니다.

깃에서 머지 커밋을 실행 취소하는 방법

깃의 `reset` command to undo a merge.

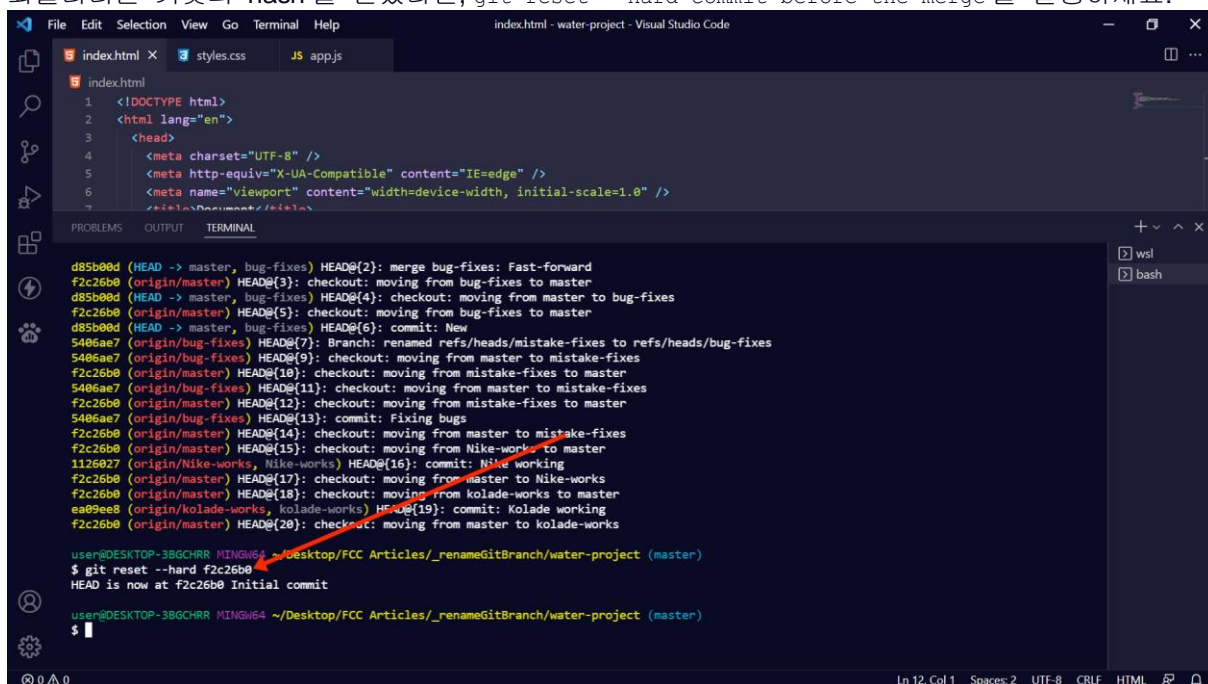
우선, 커밋 hash (혹은 id)를 확인해야 이전의 커밋으로 돌아갈 수 있습니다.

hash를 확인하기 위해서는 `git log` 혹은 `git reflog`를 실행하세요. 더 읽기 쉬운 `git reflog`가 더 나은 옵션이 될 수 있습니다.



```
user@DESKTOP-38GCHRR MINGW64 ~/Desktop/FCC Articles/_renameGitBranch/water-project (master)
$ git reflog
d85b00d (HEAD -> master, bug-fixes) HEAD@{0}: reset: moving to d85b00d
d85b00d (HEAD -> master, bug-fixes) HEAD@{1}: reset: moving to d85b00d
d85b00d (HEAD -> master, bug-fixes) HEAD@{2}: merge bug-fixes: Fast-forward
f2c26b0 (origin/master) HEAD@{3}: checkout: moving from bug-fixes to master
d85b00d (HEAD -> master, bug-fixes) HEAD@{4}: checkout: moving from master to bug-fixes
f2c26b0 (origin/master) HEAD@{5}: checkout: moving from bug-fixes to master
d85b00d (HEAD -> master, bug-fixes) HEAD@{6}: commit: New
5406ae7 (origin/bug-fixes) HEAD@{7}: Branch: renamed refs/heads/mistake-fixes to refs/heads/bug-fixes
5406ae7 (origin/bug-fixes) HEAD@{8}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{9}: checkout: moving from mistake-fixes to master
5406ae7 (origin/bug-fixes) HEAD@{10}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{11}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{12}: checkout: moving from mistake-fixes to master
5406ae7 (origin/bug-fixes) HEAD@{13}: commit: Fixing bugs
f2c26b0 (origin/master) HEAD@{14}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{15}: checkout: moving from Nike-works to master
1126027 (origin/Nike-works, Nike-works) HEAD@{16}: commit: Nike working
f2c26b0 (origin/master) HEAD@{17}: checkout: moving from master to Nike-works
f2c26b0 (origin/master) HEAD@{18}: checkout: moving from kolade-works to master
ea9ee8 (origin/kolade-works, kolade-works) HEAD@{19}: commit: Kolade working
f2c26b0 (origin/master) HEAD@{20}: checkout: moving from master to kolade-works
```

되돌리려는 커밋의 hash를 얻었다면, `git reset --hard commit-before-the-merge`를 실행하세요:



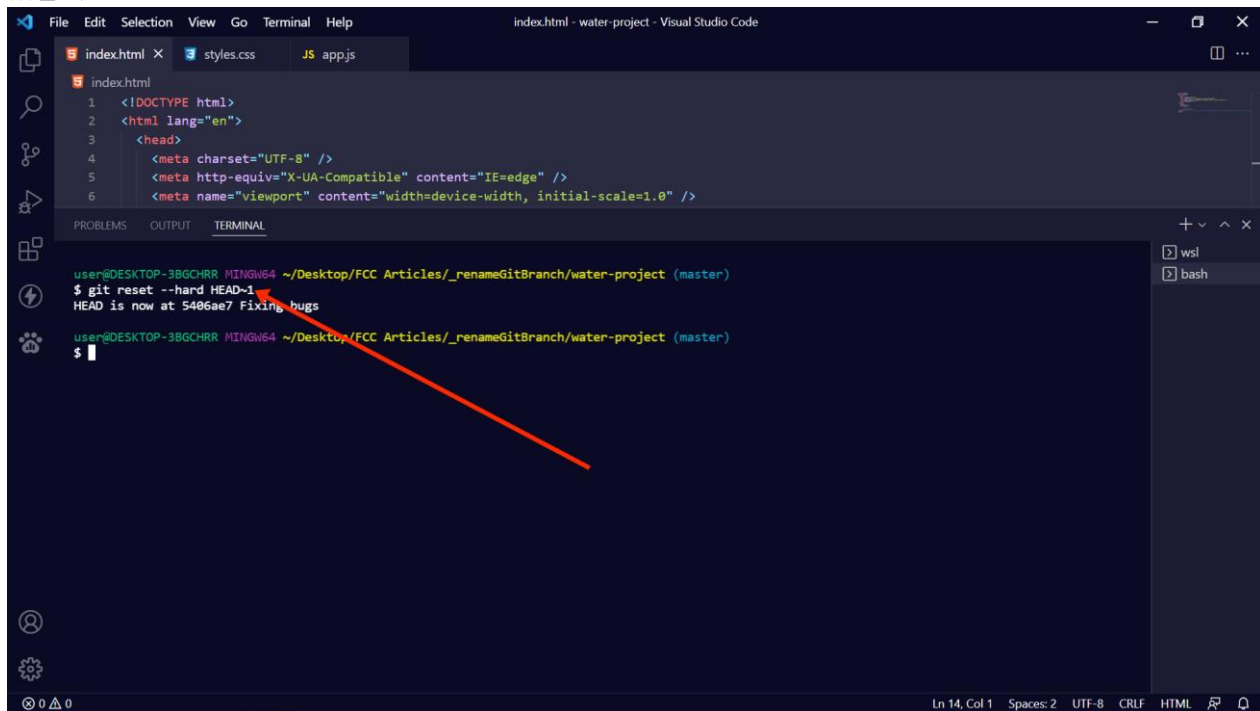
```
d85b00d (HEAD -> master, bug-fixes) HEAD@{2}: merge bug-fixes: Fast-forward
f2c26b0 (origin/master) HEAD@{3}: checkout: moving from bug-fixes to master
d85b00d (HEAD -> master, bug-fixes) HEAD@{4}: checkout: moving from master to bug-fixes
f2c26b0 (origin/master) HEAD@{5}: checkout: moving from bug-fixes to master
d85b00d (HEAD -> master, bug-fixes) HEAD@{6}: commit: New
5406ae7 (origin/bug-fixes) HEAD@{7}: Branch: renamed refs/heads/mistake-fixes to refs/heads/bug-fixes
5406ae7 (origin/bug-fixes) HEAD@{8}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{9}: checkout: moving from mistake-fixes to master
5406ae7 (origin/bug-fixes) HEAD@{10}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{11}: checkout: moving from mistake-fixes to master
5406ae7 (origin/bug-fixes) HEAD@{12}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{13}: checkout: moving from mistake-fixes to master
5406ae7 (origin/bug-fixes) HEAD@{14}: commit: Fixing bugs
f2c26b0 (origin/master) HEAD@{15}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{16}: checkout: moving from Nike-works to master
1126027 (origin/Nike-works, Nike-works) HEAD@{17}: commit: Nike working
f2c26b0 (origin/master) HEAD@{18}: checkout: moving from master to Nike-works
f2c26b0 (origin/master) HEAD@{19}: checkout: moving from kolade-works to master
ea9ee8 (origin/kolade-works, kolade-works) HEAD@{20}: commit: Kolade working
f2c26b0 (origin/master) HEAD@{21}: checkout: moving from master to kolade-works

user@DESKTOP-38GCHRR MINGW64 ~/Desktop/FCC Articles/_renameGitBranch/water-project (master)
$ git reset --hard f2c26b0
HEAD is now at f2c26b0 Initial commit

user@DESKTOP-38GCHRR MINGW64 ~/Desktop/FCC Articles/_renameGitBranch/water-project (master)
$
```

명령을 실행하면 코드 에디터에서 몇 가지 항목이 제거되는 것을 보게 될 것입니다.

마지막 커밋의 hash 가 명확하지 않다면, `git reset --hard HEAD~1` 을 실행하여 머리 이전 커밋으로 돌아갈 수 있습니다:

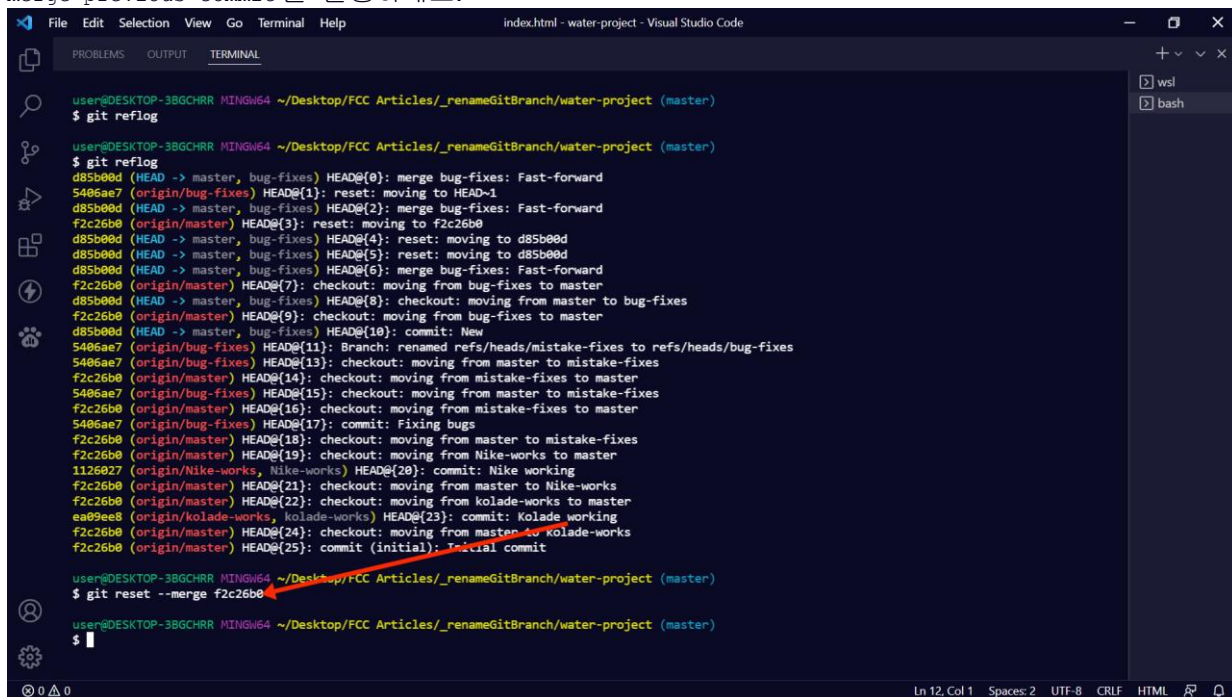


```
index.html - water-project - Visual Studio Code
index.html x styles.css JS app.js
index.html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8" />
5 <meta http-equiv="X-UA-Compatible" content="IE=edge" />
6 <meta name="viewport" content="width=device-width, initial-scale=1.0" />
PROBLEMS OUTPUT TERMINAL
user@DESKTOP-3BGCHRR MINGW64 ~/Desktop/FCC Articles/_renameGitBranch/water-project (master)
$ git reset --hard HEAD~1
HEAD is now at 5406ae7 Fixing bugs
user@DESKTOP-3BGCHRR MINGW64 ~/Desktop/FCC Articles/_renameGitBranch/water-project (master)
$
```

유의해야 할 점은 `--hard` 플래그를 사용하여 머리 실행 취소할 경우, 커밋되지 않은 모든 변경 내용이 되돌려진다는 것입니다.

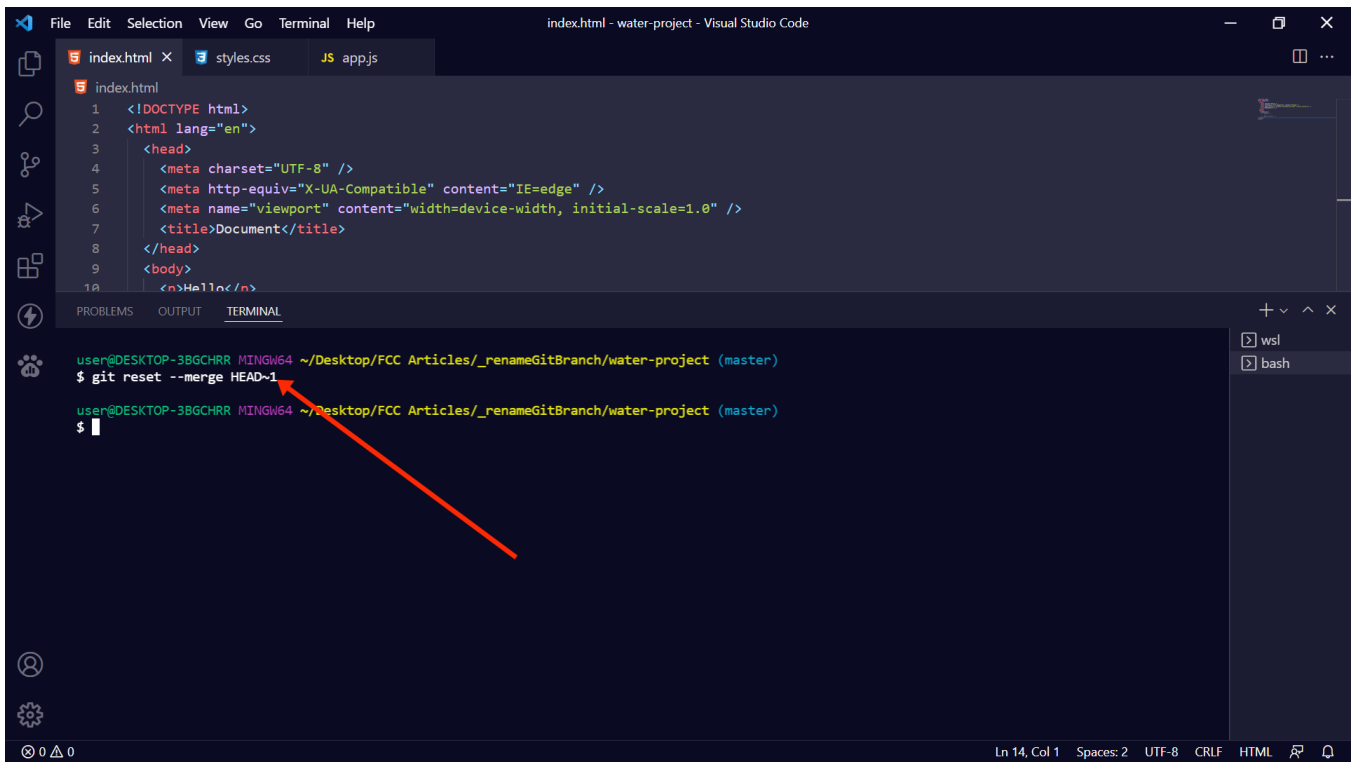
깃에서 머지를 되돌리는 더 좋은 방법

깃에서는 커밋되지 않은 변경 사항을 되돌리는 위의 방법을 보완하여 더 안전한 `--merge` 플래그를 제공합니다. `--merge` 를 사용하여 머지를 실행 취소하려면 `git reflog` 를 실행하여 커밋의 hash 를 확인한 다음 `git reset --merge previous-commit` 을 실행하세요:



```
index.html - water-project - Visual Studio Code
PROBLEMS OUTPUT TERMINAL
user@DESKTOP-3BGCHRR MINGW64 ~/Desktop/FCC Articles/_renameGitBranch/water-project (master)
$ git reflog
user@DESKTOP-3BGCHRR MINGW64 ~/Desktop/FCC Articles/_renameGitBranch/water-project (master)
$ git reflog
d85b00d (HEAD -> master, bug-fixes) HEAD@{0}: merge bug-fixes: Fast-forward
5406ae7 (origin/bug-fixes) HEAD@{1}: reset: moving to HEAD~1
d85b00d (HEAD -> master, bug-fixes) HEAD@{2}: merge bug-fixes: Fast-forward
f2c26b0 (origin/master) HEAD@{3}: reset: moving to f2c26b0
d85b00d (HEAD -> master, bug-fixes) HEAD@{4}: reset: moving to d85b00d
d85b00d (HEAD -> master, bug-fixes) HEAD@{5}: reset: moving to d85b00d
d85b00d (HEAD -> master, bug-fixes) HEAD@{6}: merge bug-fixes: Fast-forward
f2c26b0 (origin/master) HEAD@{7}: checkout: moving from bug-fixes to master
d85b00d (HEAD -> master, bug-fixes) HEAD@{8}: checkout: moving from master to bug-fixes
f2c26b0 (origin/master) HEAD@{9}: checkout: moving from bug-fixes to master
d85b00d (HEAD -> master, bug-fixes) HEAD@{10}: commit: New
5406ae7 (origin/bug-fixes) HEAD@{11}: Branch: renamed refs/heads/mistake-fixes to refs/heads/bug-fixes
5406ae7 (origin/bug-fixes) HEAD@{12}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{13}: checkout: moving from mistake-fixes to master
5406ae7 (origin/bug-fixes) HEAD@{14}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{15}: checkout: moving from master to mistake-fixes
5406ae7 (origin/bug-fixes) HEAD@{16}: checkout: moving from mistake-fixes to master
5406ae7 (origin/bug-fixes) HEAD@{17}: commit: Fixing bugs
f2c26b0 (origin/master) HEAD@{18}: checkout: moving from master to mistake-fixes
f2c26b0 (origin/master) HEAD@{19}: checkout: moving from Nike-works to master
1126027 (origin/Nike-works, Nike-works) HEAD@{20}: commit: Nike working
f2c26b0 (origin/master) HEAD@{21}: checkout: moving from master to Nike-works
f2c26b0 (origin/master) HEAD@{22}: checkout: moving from kolade-works to master
ea09ee8 (origin/kolade-works, kolade-works) HEAD@{23}: commit: Kolade working
f2c26b0 (origin/master) HEAD@{24}: checkout: moving from master to kolade-works
f2c26b0 (origin/master) HEAD@{25}: commit (initial): Initial commit
user@DESKTOP-3BGCHRR MINGW64 ~/Desktop/FCC Articles/_renameGitBranch/water-project (master)
$ git reset --merge f2c26b0
user@DESKTOP-3BGCHRR MINGW64 ~/Desktop/FCC Articles/_renameGitBranch/water-project (master)
$
```

`--merge` 플래그와 더불어 `HEAD` 키워드를 사용한 `git reset --merge HEAD~1` 명령어도 쓸 수 있습니다:

A screenshot of the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Terminal, and Help. The editor has three tabs: index.html, styles.css, and app.js. The index.html file is open, showing a basic HTML structure with a DOCTYPE, head section containing meta tags for charset, http-equiv, and viewport, and a body section with a title and a paragraph. Below the editor, there are three panels: PROBLEMS, OUTPUT, and TERMINAL. The TERMINAL panel is active, showing a command prompt for a user on a Windows machine. The command entered is 'git reset --merge HEAD~1', and the prompt is waiting for input. A red arrow points to the command. The status bar at the bottom shows 'Ln 14, Col 1', 'Spaces: 2', 'UTF-8', 'CRLF', 'HTML', and a search icon.

참고: --merge 플래그를 쓸 때 해당 명령에 대한 응답을 받지 못하더라도 걱정하지마세요. 작동은 제대로 합니다.

마치며

지금까지 깃을 더 효율적으로 사용할 수 있도록 실수로 혹은 원치 않은 머지를 실행 취소하는 방법을 배웠습니다.

--hard 플래그는 커밋되지 않은 변경 사항을 제거하고, --merge 플래그는 커밋되지 않은 변경 사항을 유지한다는 것이 머지 되돌리기의 요점입니다.