

# HEAD vs main (+?? HEAD ?? ?? )

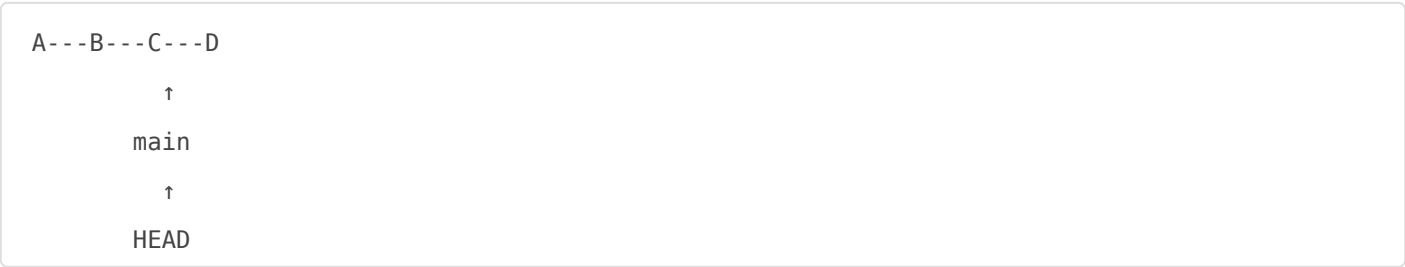
## 1. ??

??	??	??
HEAD	?? ?? ?? ?? ??	HEAD → main ?? HEAD → <?? ??>
main	?? ?? ?? (Git 2.28+ ?? ?? )	main → C3 ??

## 2. ?? ??

??	HEAD (?? )	main (?? )
??	?? ??	?? ?? ??
??	"?? ?? ?? ?? ?? " ??	???? ???? ?
?? ??	???? , ?? ??	?? ?? ? ?? , ?? ?? ? ?
Git ?? ??	reset, checkout, reflog	merge, push, checkout ??
?? ?? ??	.git/HEAD	.git/refs/heads/main

## 3. ??? ??



- HEAD → main → D ??

- `git checkout main` → `HEAD` `main` `main`
- `git checkout <sha>` → `HEAD` **Detached**

## 4. HEAD? ? ?? ??

상태	HEAD	내용
Attached HEAD	HEAD <code>main</code>	<code>git checkout main</code> (HEAD → main)
Detached HEAD	HEAD <code>a1b2c3d</code>	<code>git checkout a1b2c3d</code> (HEAD detached at a1b2c3d)

```
git checkout main      # HEAD → main
git checkout a1b2c3d   # HEAD → a1b2c3d (Detached)
```

## 5. ?? ???

명령어	내용
<code>git symbolic-ref HEAD</code>	HEAD <code>refs/heads/main</code>
<code>cat .git/HEAD</code>	HEAD <code>ref: refs/heads/main</code>
<code>git log</code>	HEAD <code>main</code>
<code>git reflog</code>	HEAD <code>main</code> (HEAD detached at a1b2c3d)

## 6. ?? ???

상태	HEAD	main
현재	<code>a1b2c3d</code> (HEAD)	<code>a1b2c3d</code>
작업	<code>a1b2c3d</code> 1	<code>a1b2c3d</code>
브랜치	<code>a1b2c3d</code> <code>main</code> / <code>main</code>	<code>a1b2c3d</code> (HEAD)
브랜치 생성	<code>a1b2c3d</code> <code>main</code>	<code>a1b2c3d</code> (HEAD)

# 7. ?? HEAD ?? ??

??	??
HEAD	?? ?? ?? ?? (or ??? ) ???
FETCH_HEAD	git fetch ?? ??? ?? ???
MERGE_HEAD	git merge ?? , ?? ?? ??
ORIG_HEAD	??? HEAD ?? ??? ?? ?? (ex. reset ?? ?? )
CHERRY_PICK_HEAD	cherry-pick ?? ?? ? ??? ?? ??
REBASE_HEAD	rebase ?? ??? ?? ?? ??

# 8. ?? ??

```
git reset --hard ORIG_HEAD    # ?? ??? ??

git merge feature             # ?? ? MERGE_HEAD ???
cat .git/MERGE_HEAD           # ?? ?? ?? ??

git fetch origin               # FETCH_HEAD ??
cat .git/FETCH_HEAD
```

# ??

.git/HEAD	?? ?? ??
.git/ORIG_HEAD	reset/merge ? ?? HEAD
.git/FETCH_HEAD	fetch ? ??? ?? ?? ?? ??
.git/MERGE_HEAD	merge ?? ?? ??