Part 2

Moving HEAD

Moving HEAD

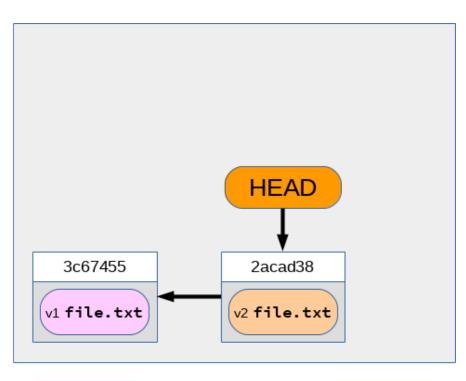
git reset

- Moves **HEAD** (mostly)
- Changes Index and working directory (mostly)

Seeing the log

gitk shows it graphically

- \$ git log
- \$ git log --oneline -n 2





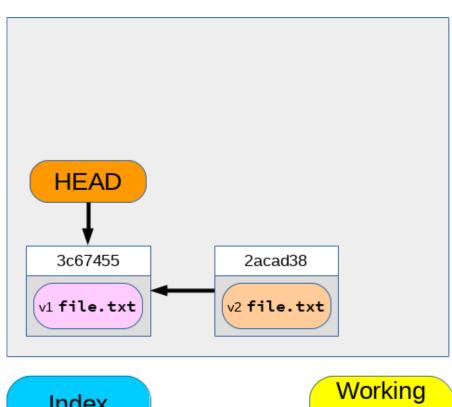
Mixed reset

\$ git reset HEAD~ --mixed

- Default behaviour
- 1. Moves **HEAD** to specified commit
- 2. Changes Index
- 3. Preserves working directory

Back to the position where you'd just committed HEAD~

- Undoes commit
- Undoes add





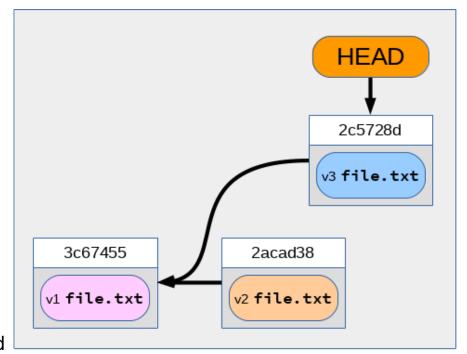
Mixed reset: why

\$ git reset HEAD~

Get rid of a blind alley.

Rewind history

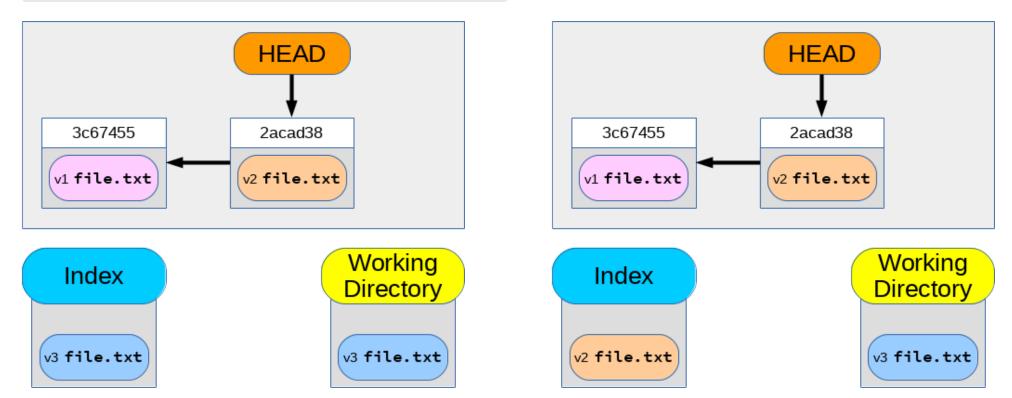
- Can rewind several commits
- Orphaned commit 2acad38 will eventually be tidied away by Git





Unstage a file: undo add

\$ git reset HEAD file.txt



Soft reset

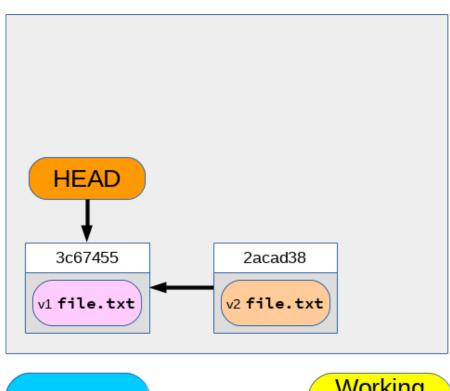
\$ git reset HEAD~ --soft

- 1. Moves **HEAD** to specified commit
- 2. Preserves Index
- 3. Preserves working directory

Back to the position where you'd just committed HEAD~

- Undoes commit
- Keeps add

Useful for skipping intermediate commits





Hard reset

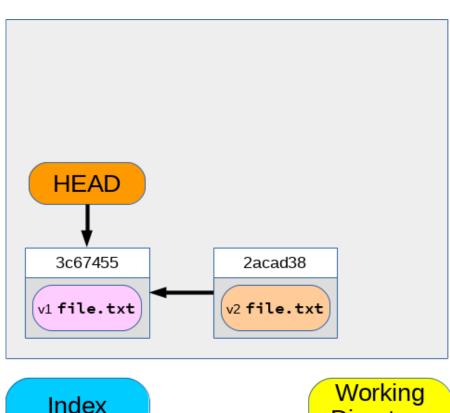
\$ git reset HEAD~ --hard

- 1. Moves **HEAD** to specified commit
- 2. Changes Index
- 3. Changes working directory

Back to before you'd even *thought* about moving on from the new **HEAD**

Use case: clearing up disasters

\$ git reset HEAD --hard





Tracked, untracked, ignore

- git add tells git to:
 - 1. Track a file
 - 2. Add it to index

Tracked files are tracked forever

- .gitignore is a file describing things Git will ignore
 - Won't track them, won't moan
 - Minified files, images, etc.

End of part 2

- Moving HEAD
- Mixed, soft, hard resets

Hard reset to your third "Adding a section" commit

Take a break, get some coffee

