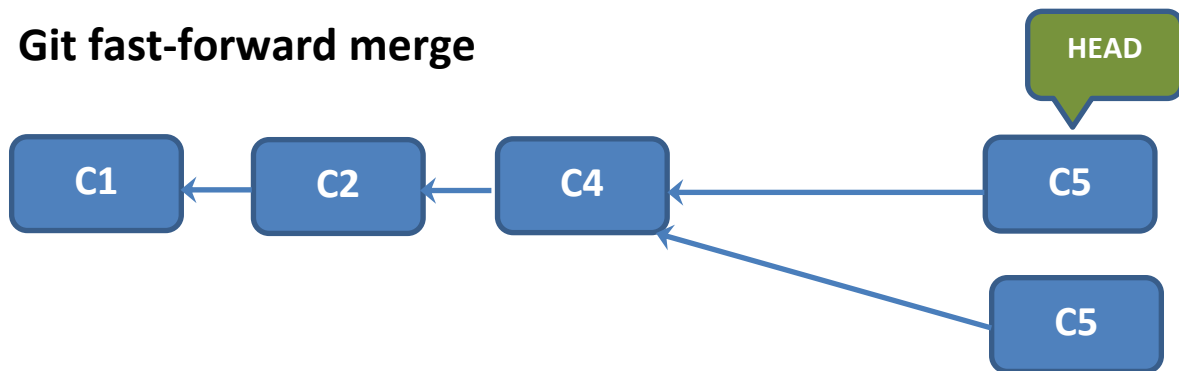
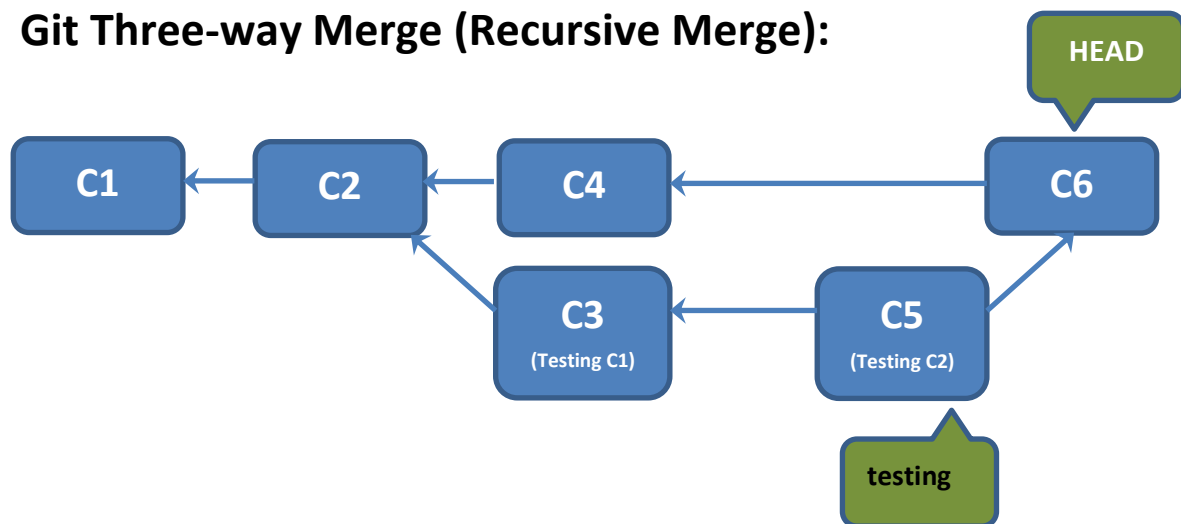


Git Merge methods

Git fast-forward merge



Git Three-way Merge (Recursive Merge):



Git Merge methods

```
root@gitserver:~/project# git checkout dev
Switched to branch 'dev'
root@gitserver:~/project# git log
commit ba001b75d89c8f9beebbe609e07f8cd1c8367970
Author: ganesh <ganesh.palnitkar@yahoo.co.in>
Date: Mon Sep 4 06:36:18 2017 +0000

    form fieldds updated

commit fc418a529a8e0bed5533613ad9b59ed06c6493e3
Author: ganesh <ganesh.palnitkar@yahoo.co.in>
Date: Mon Sep 4 06:02:46 2017 +0000

    sample files deleted and added with Java project files
```

```
root@gitserver:~/project# git checkout dev
Switched to branch 'dev'
root@gitserver:~/project# git rebase master
First, rewinding head to replay your work on top of it...
Applying: initial commit
Applying: new change
Applying: one more change
Applying: one more change
Applying: added jenkins pipeline file
Applying: form updated with department field
Applying: form updated by root user
Using index info to reconstruct a base tree...
M       src/main/webapp/index.jsp
<stdin>:11: space before tab in indent.
        <input type="text" name="lastname"><br>
<stdin>:15: trailing whitespace.
        <input type="text" name="Gender"><br>
warning: 2 lines add whitespace errors.
Falling back to patching base and 3-way merge...
Auto-merging src/main/webapp/index.jsp
CONFLICT (content): Merge conflict in src/main/webapp/index.jsp
Failed to merge in the changes.
Patch failed at 0007 form updated by root user
The copy of the patch that failed is found in:
    /root/project/.git/rebase-apply/patch

When you have resolved this problem, run "git rebase --continue".
If you prefer to skip this patch, run "git rebase --skip" instead.
To check out the original branch and stop rebasing, run "git rebase --abort".
```

Git Merge methods

```
root@gitserver:~/project# git branch
* (no branch, rebasing dev)
  dev
  master
root@gitserver:~/project# git rebase --skip
Applying: file updated to resolve conflict
Using index info to reconstruct a base tree...
M       src/main/webapp/index.jsp
Falling back to patching base and 3-way merge...
Auto-merging src/main/webapp/index.jsp
CONFLICT (content): Merge conflict in src/main/webapp/index.jsp
Failed to merge in the changes.
Patch failed at 0008 file updated to resolve conflict
The copy of the patch that failed is found in:
  /root/project/.git/rebase-apply/patch

When you have resolved this problem, run "git rebase --continue".
If you prefer to skip this patch, run "git rebase --skip" instead.
To check out the original branch and stop rebasing, run "git rebase --abort".

root@gitserver:~/project# git rebase --abort
root@gitserver:~/project#
```

```
root@gitserver:~/project# git checkout master
Switched to branch 'master'
root@gitserver:~/project# git merge dev
CONFLICT (modify/delete): file2 deleted in dev and modified in HEAD. Version HEAD of file2 left in tree.
CONFLICT (modify/delete): file1 deleted in dev and modified in HEAD. Version HEAD of file1 left in tree.
Automatic merge failed; fix conflicts and then commit the result.
root@gitserver:~/project#
```