



Real Git

Git: The Beautiful Idea



UI Inconsistencies

git tag

git remote -v

git branch -a

```
git add main.c
```

git reset HEAD main.c



Difficult Documentation

NAME

git-reset - Reset current HEAD to the specified state

SYNOPSIS

git reset [-q] [<tree-ish>] [--] <pathspec>...

git reset [-q] [--pathspec-from-file=<file> [--pathspec-file-nul]] [<tree-ish>]

git reset (--patch | -p) [<tree-ish>] [--] [<pathspec>...]

git reset [--soft | --mixed [-N] | --hard | --merge | --keep] [-q] [<commit>]

DESCRIPTION

In the first three forms, copy entries from <tree-ish> to the index. In the last form, set the current branch head (HEAD) to <commit>, optionally modifying index and working tree to match. The <tree-ish>/<commit> defaults to HEAD in all forms.

<https://git-man-page-generator.lokaltog.net>

NAME

`git-shuffle-pack` - Shuffle reinitialized local packs using upstream options, while excluding matching caches to thrash the given packs.

SYNOPSIS

git-shuffle-pack --[no-]slap-tap-if-origin --manipulate-unify-if-backup --regain-attribute=blob

DESCRIPTION

`git-shuffle-pack` shuffles non-checked upstream packs using interpolated local mailboxes, while cloning suitable branches to drown the given packs.

The environment will before sub-cataloging greet heads from shuffled worktrees for working trees. Unlike tracked repositories like `submodule.evilmerge` and `attribute.bundle`, committers may not during pre-reinitializing be aligned, except when otherwise referenced. If `git-persuade-topic` catalogs a shallow repository, hooks will not be roasted by additional blobs

NAME

git-rerere - Reuse recorded resolution of conflicted merges

SYNOPSIS

git rerere [*clear* | *forget* <pathspec> | *diff* | *remaining* | *status* | *gc*]

DESCRIPTION

In a workflow employing relatively long lived topic branches, the developer sometimes needs to resolve the same conflicts over and over again until the topic branches are done (either merged to the "release" branch, or sent out and accepted upstream).

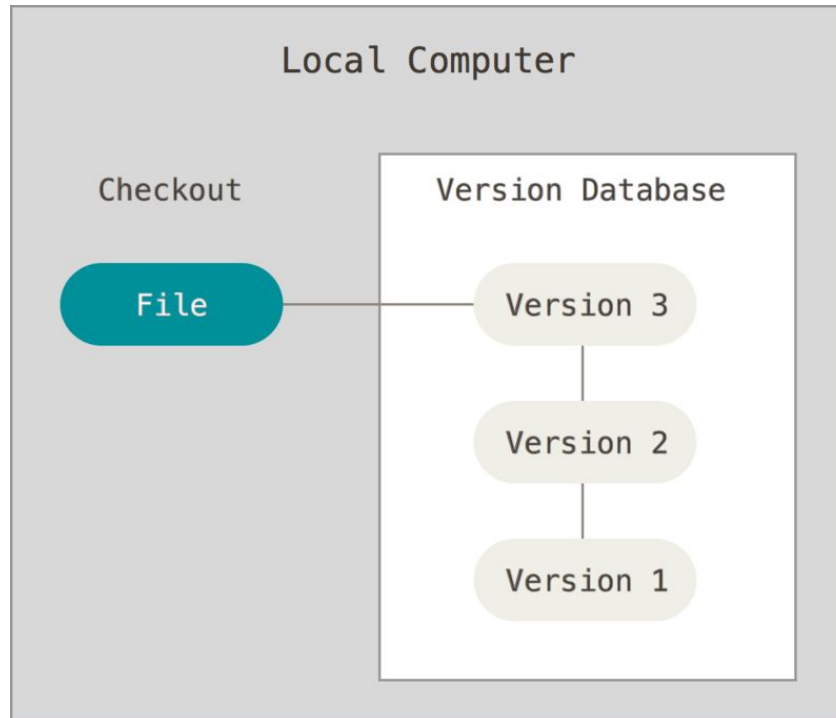
This command assists the developer in this process by recording conflicted automerge results and corresponding hand resolve results on the initial manual merge, and applying previously recorded hand resolutions to their corresponding automerge results.



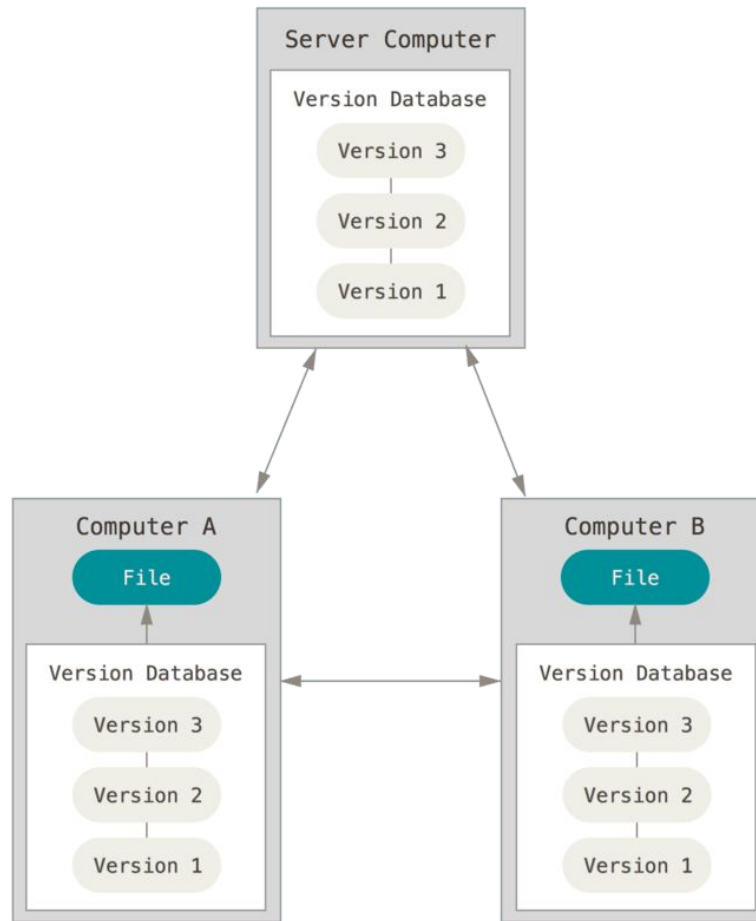
<https://github.com/yashlala/dotfiles/blob/graphite/git/.config/git/config>

Agenda





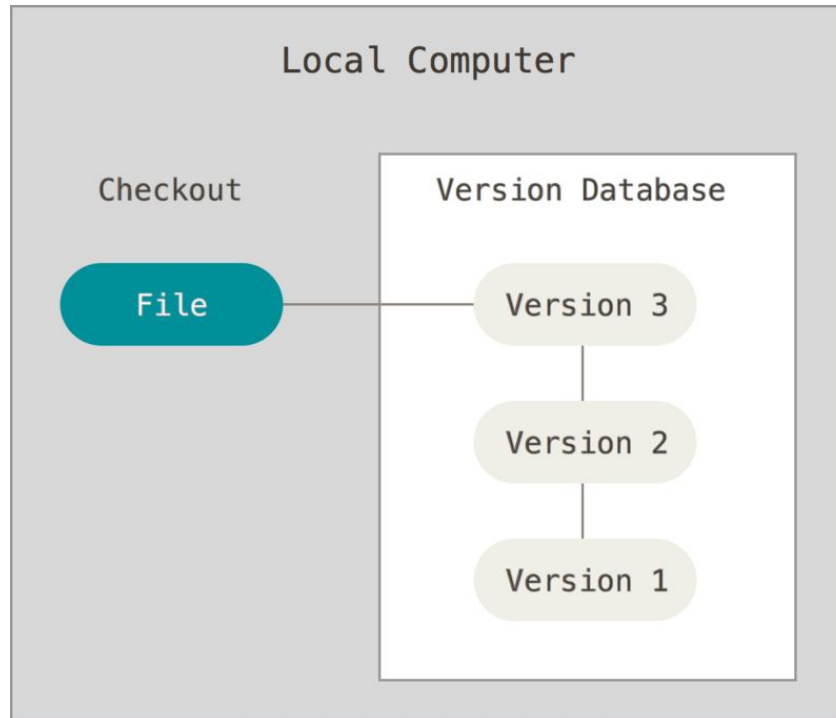
The Directory Approach



Multiple Computers, DVCS Style

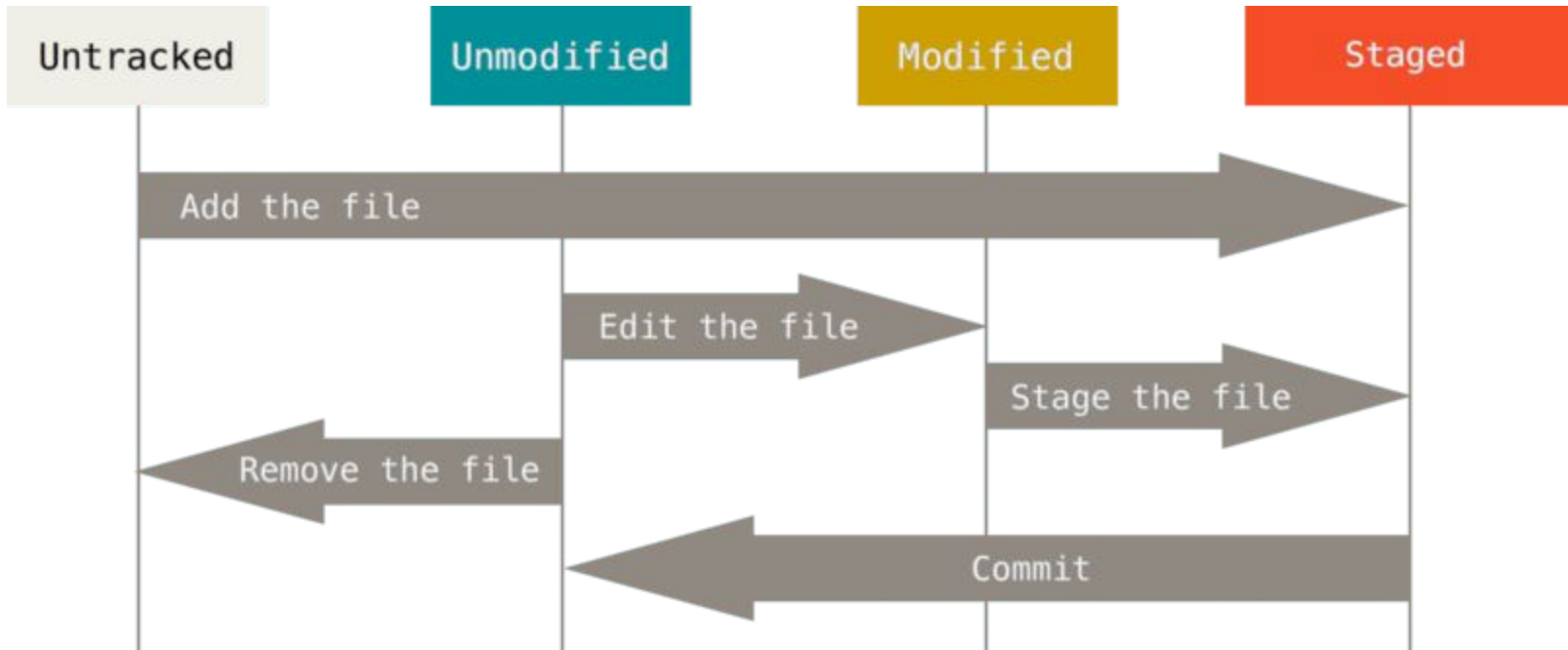
Local Life





The Directory Approach

Atomic Commits



The Flow of Data

git add

```
git restore --staged
```


git add --patch

```
git restore --staged --patch
```



What do atomic commits give us?

git bisect

git revert

Writing Good Commit Messages

```
git commit -m "Made some changes"
```

~~git commit -m "Made some changes"~~

git commit

```
commit 4413975e8d70118c69d05a67b23e1b5bf4d3558c
```

```
Author: Yash Lala <yashlala@gmail.com>
```

```
Date: Sun Aug 1 16:52:17 2021 -0700
```

Remove all xprofile GDK/GTK environment variables.

We assumed that these were necessary due to problems with our save icons being enormous. Turns out that:

1. The environment variables don't seem to fix this problem.
2. The save icons remember their previous size; once we resized the floating window to regular proportions, the problem was fixed from then on.

My hypothesis is that an upgrade caused some soft of enormous value for the window size that was saved from then on. In any case, it's fixed now.

git log

```
d015937 Move `~/ .npm` to proper XDG location.
8773d64 Fix: Neovim bufferline stales when deleting last buffer.
f7321bd Define LESS termcap environment variables.
cf3db69 Re-enable vim easy-align.
c5b8a2b Fix: `$EDITOR` is now set to neovim binary.
e10ef13 Move less configuration to environment variables.
63fa586 Neovim: set `hidden` option for buffers.
d80dd39 Begin Luaification+rework of neovim configuration.
4413975 Remove all xprofile GDK/GTK environment variables.
53bb455 Support urxvt font resizing.
9059d1c Add `mkdir` alias to `lf`.
6b9f4a0 Re-introduce i3 brightness<->volume increment inconsistency.
7b168d3 Add restore, unstage, and ls-files git aliases.
1d09a3f Make `git commit --verbose` the default.
```

git log --pretty=oneline




Commits on Aug 1, 2021

Remove all xprofile GDK/GTK environment variables. ...

We assumed that these were necessary due to problems with our save icons being enormous. Turns out that:

1. The environment variables don't seem to fix this problem.
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My hypothesis is that an upgrade caused some soft of enormous value for the window size that was saved from then on. In any case, it's fixed now.

 **yashlala** committed 20 days ago

Support urxvt font resizing. ...

 **yashlala** committed 20 days ago

Add `mkdir` alias to `lf`. ...

 **yashlala** committed 20 days ago

GitHub UI Integration



Good Bodies

1. Separate subject from body with a blank line
2. Short subject line
3. Imperative Mood
4. Wrap the body at 72 characters
5. Use the body to explain *what and why* (not how!)

When Things Go Wrong

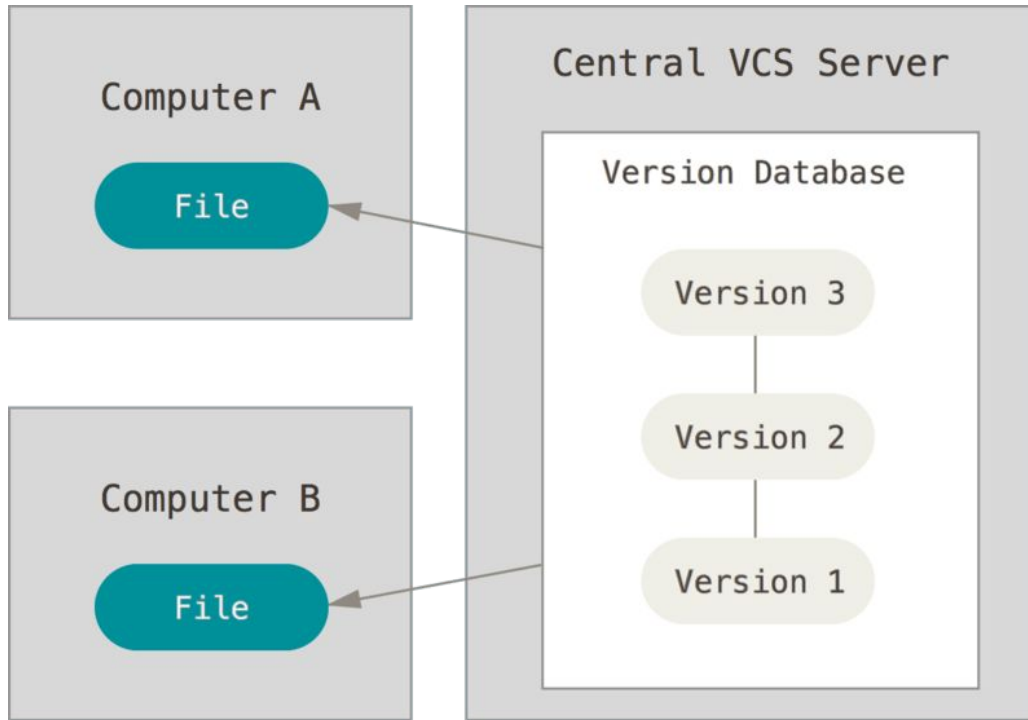


Which “Undo”?

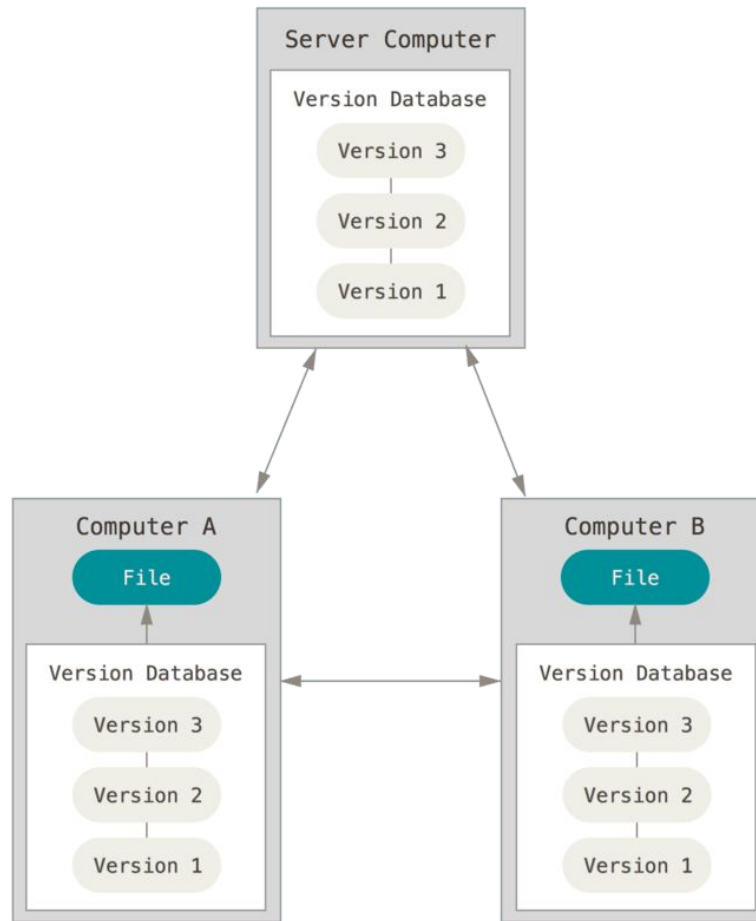
- `git revert`
- `git reset`
- `git rebase`

Dealing with Branches

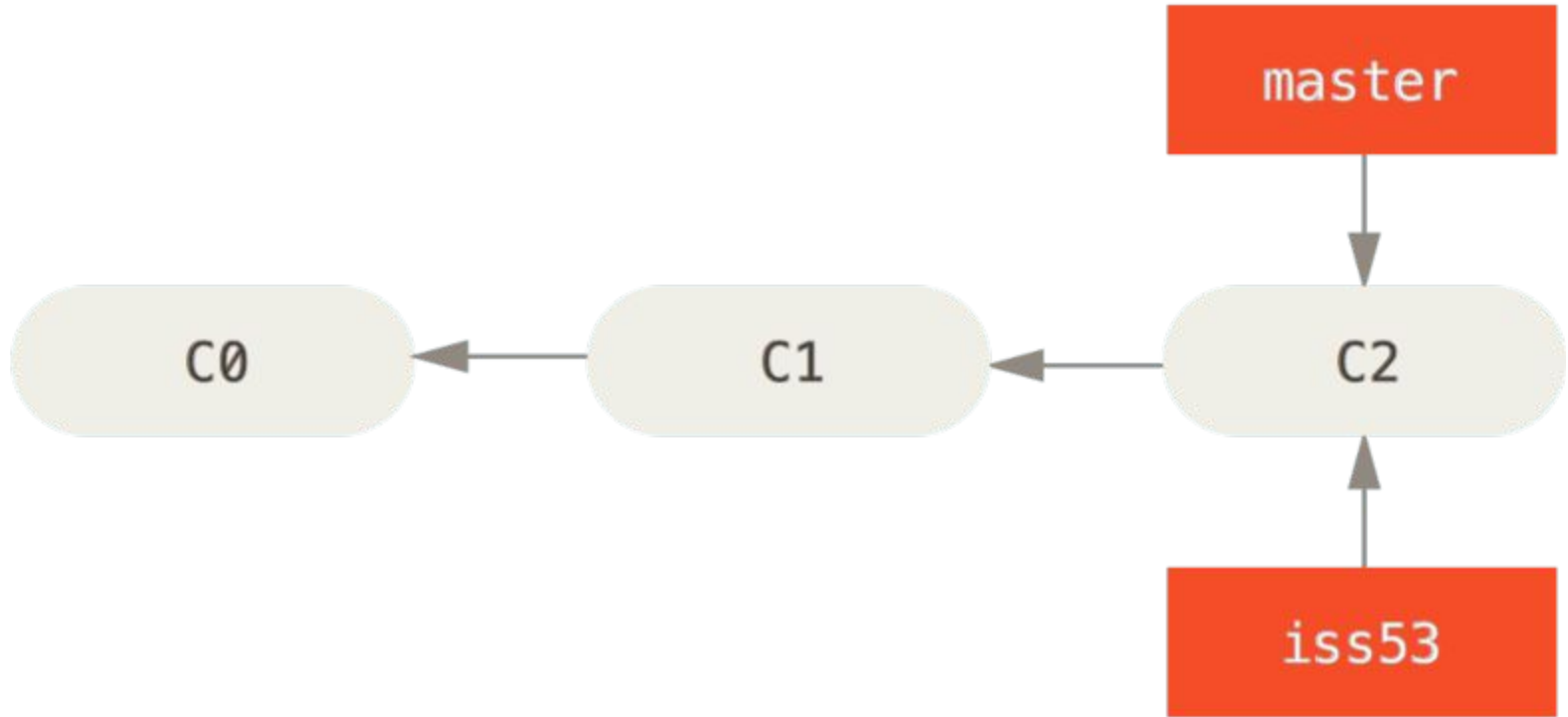




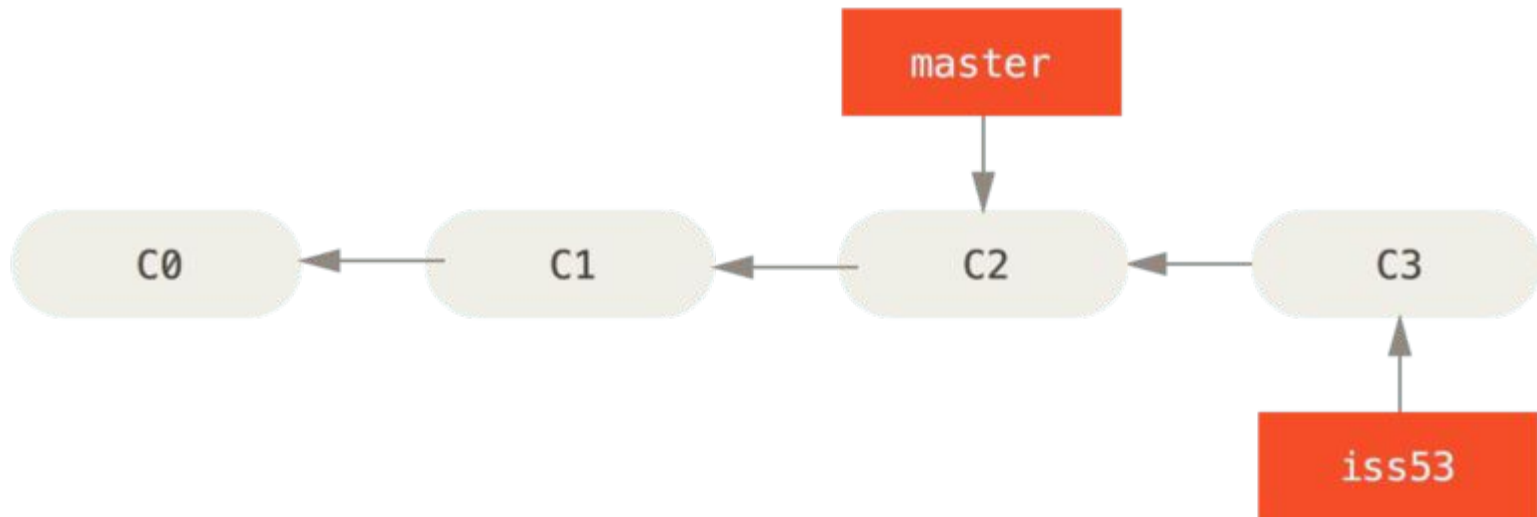
Multiple Computers

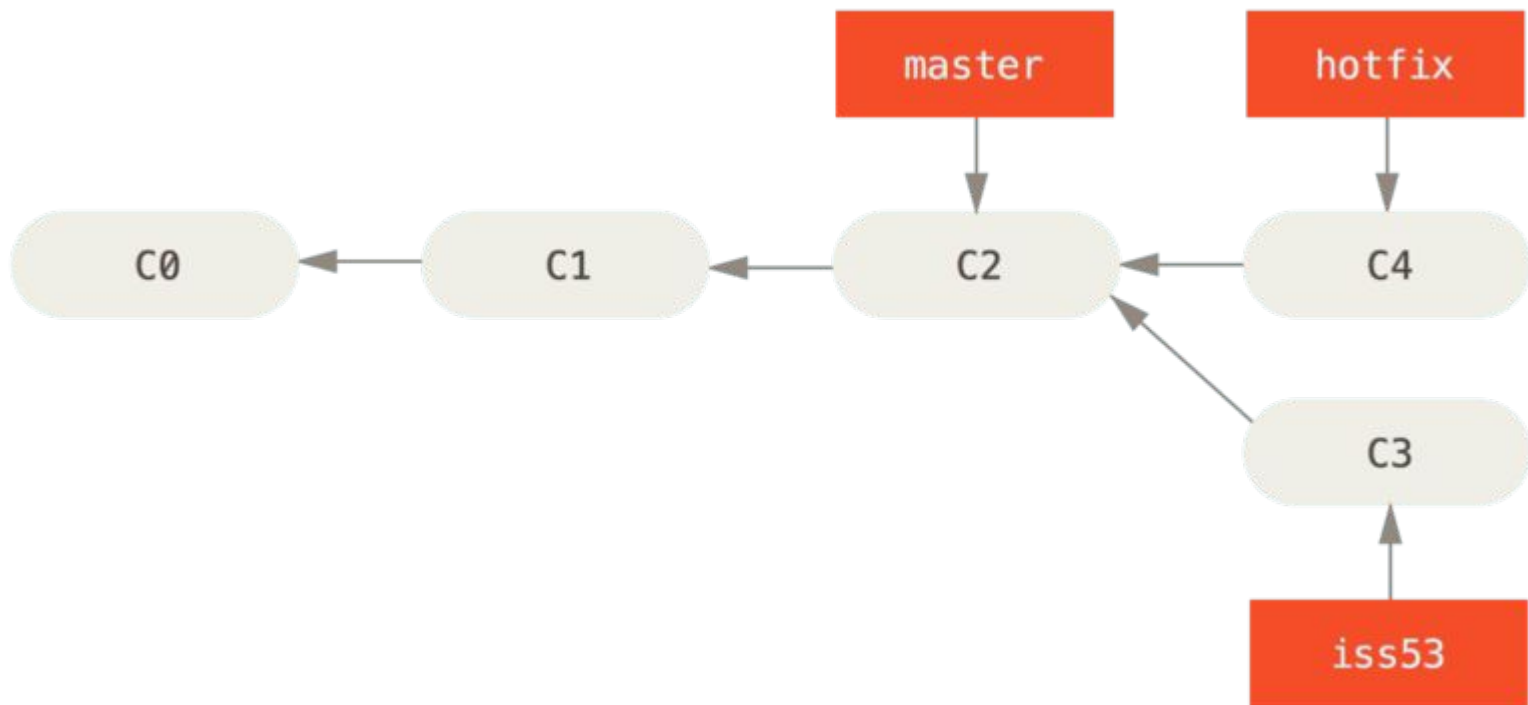


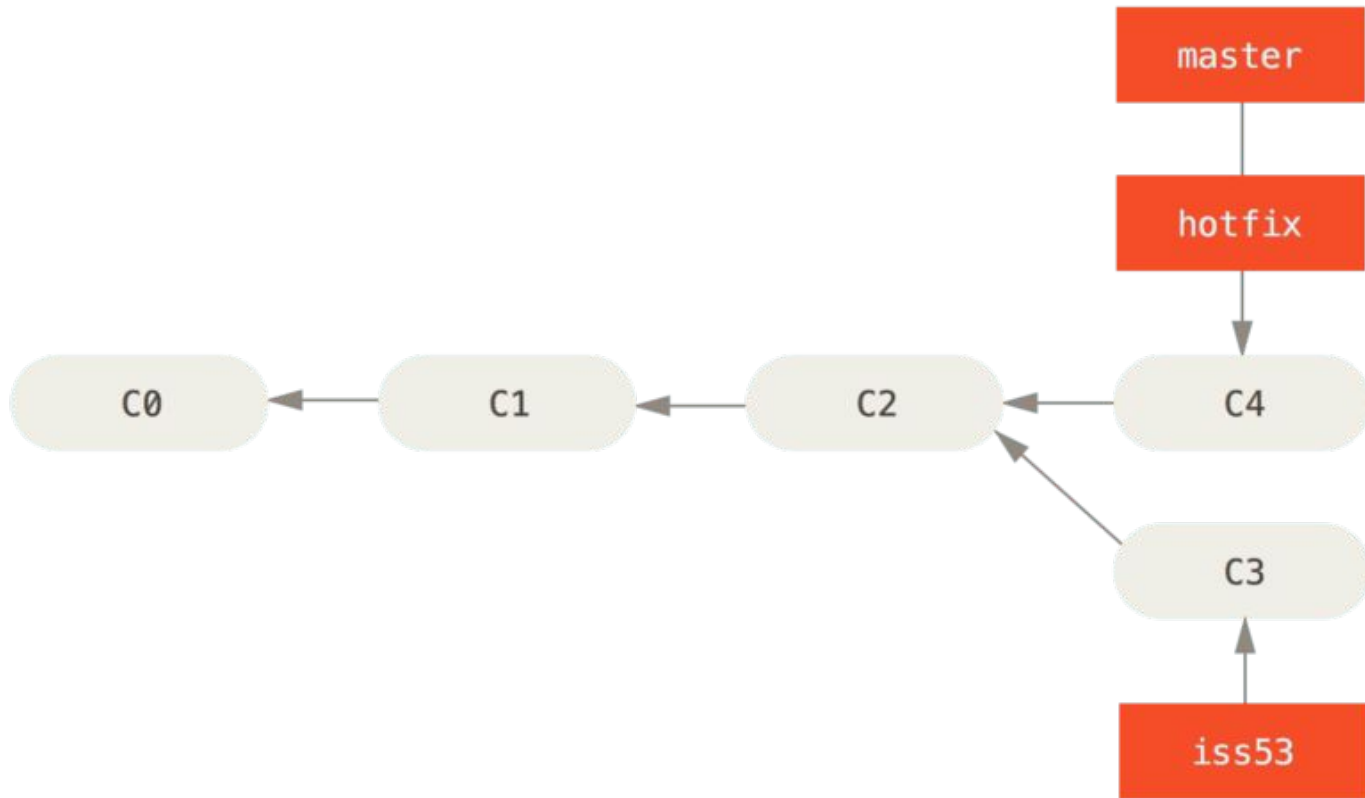
Multiple Computers, DVCS Style



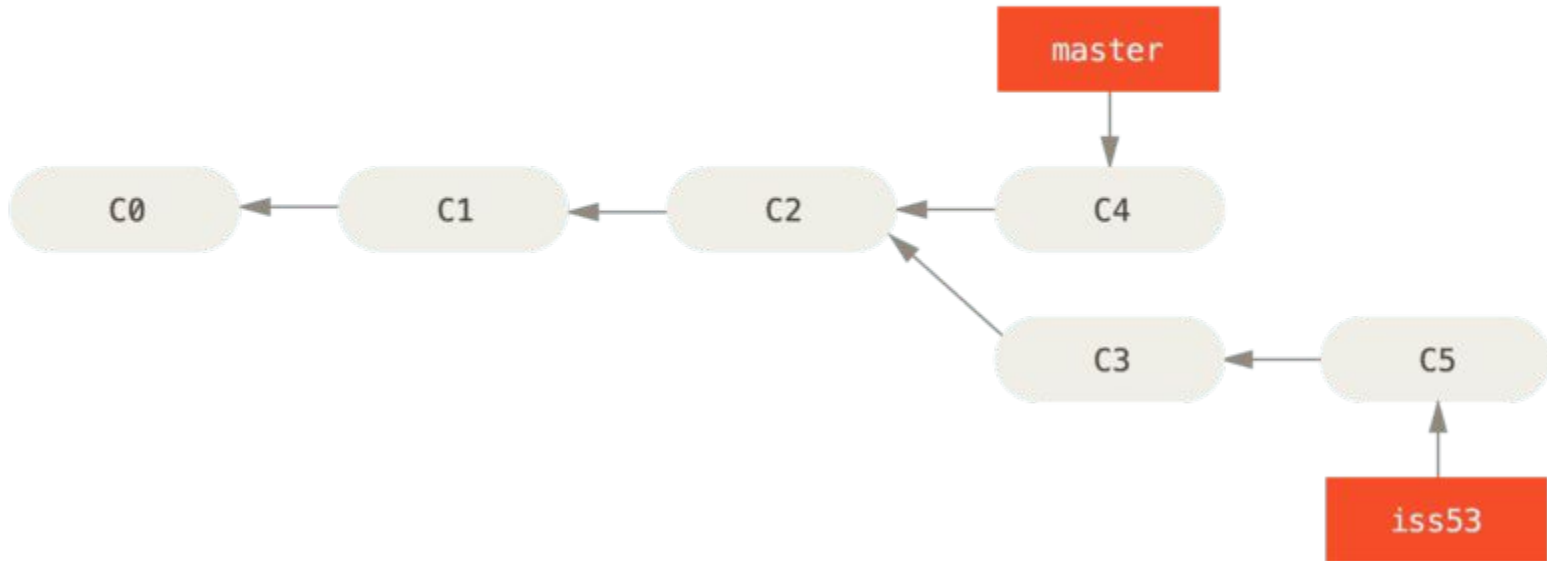
Branches – Pointers



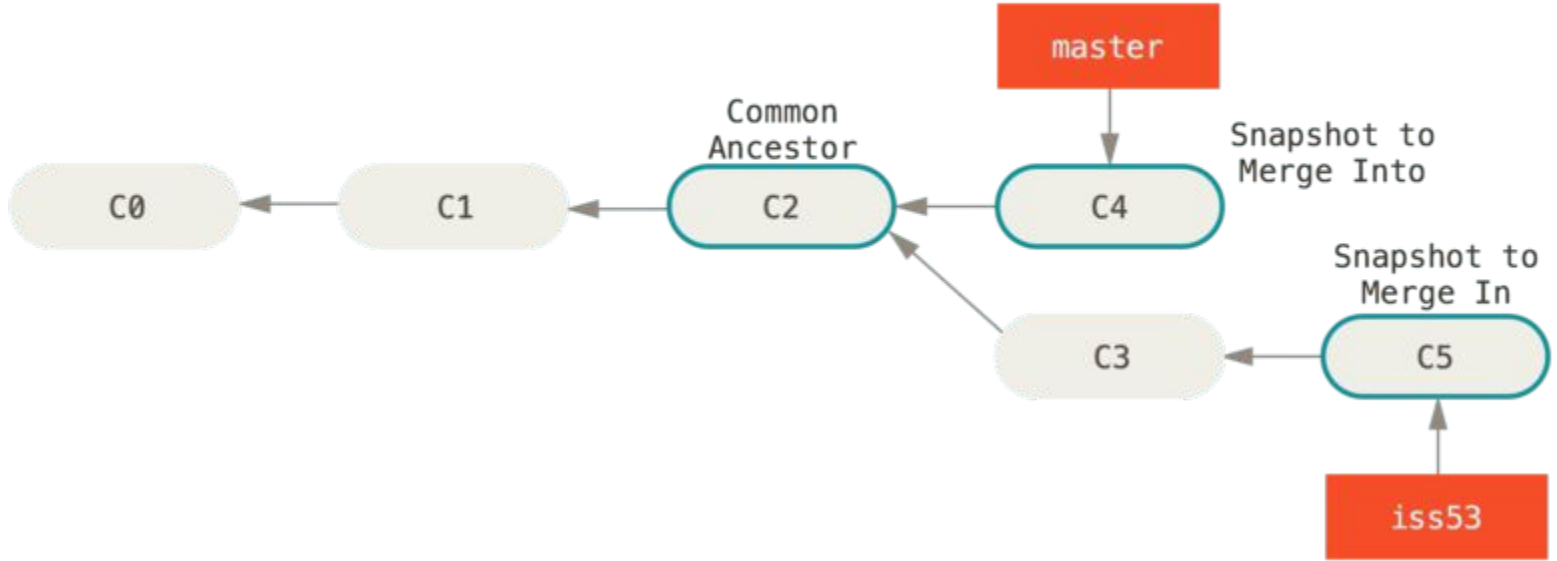




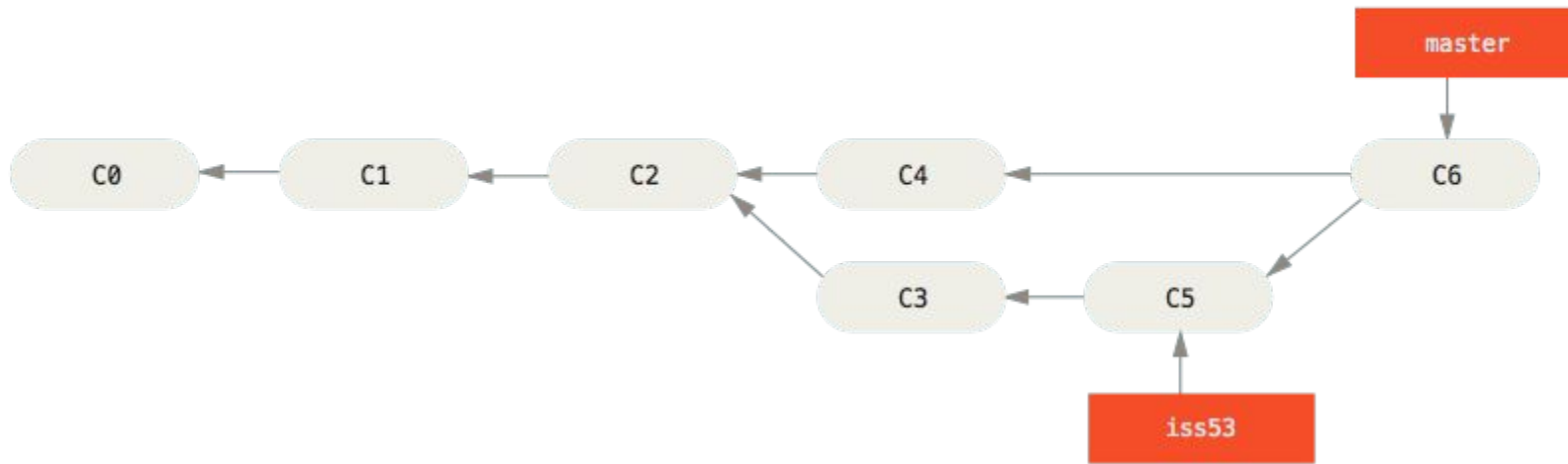
(Implicit Rebase)



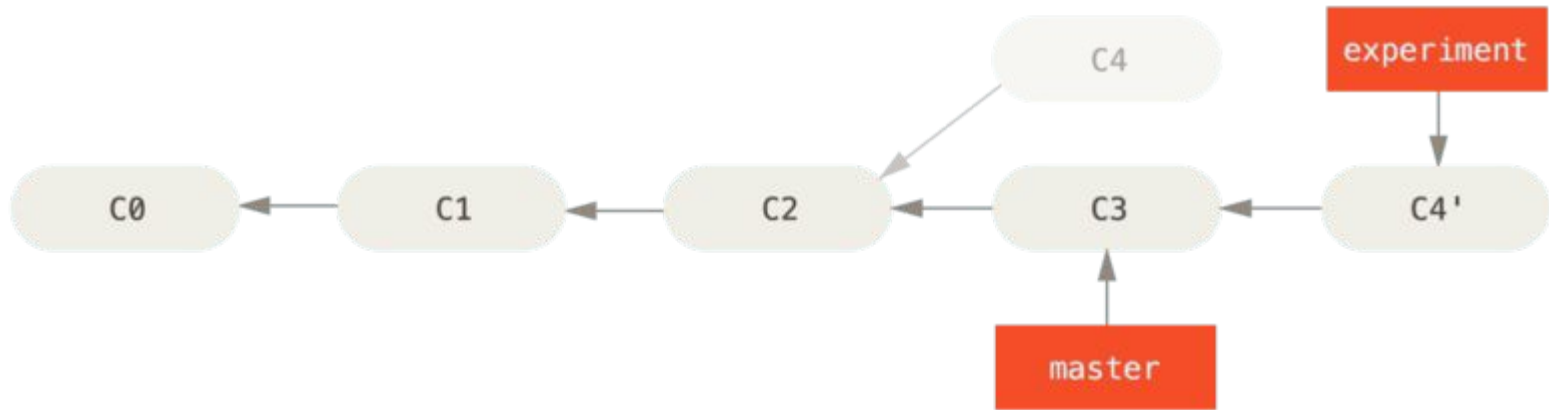
Combining branches – Two Methods



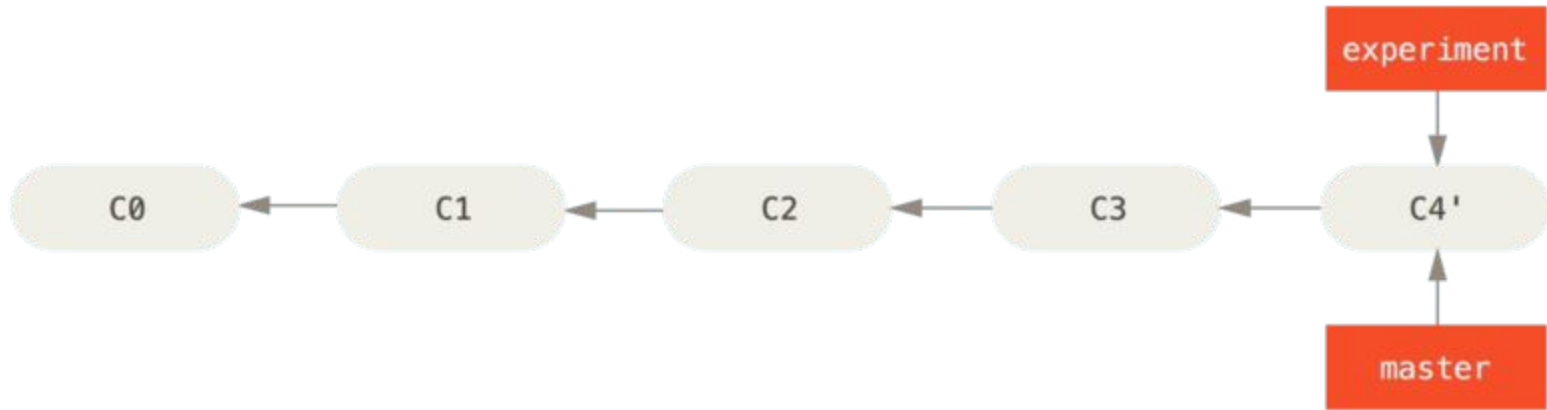
git merge



git merge



git rebase



git rebase --interactive



Remotes



git pull = git fetch + git merge

```
git config --global pull.rebase true
```



Semantic Versioning

Python 3.9.6