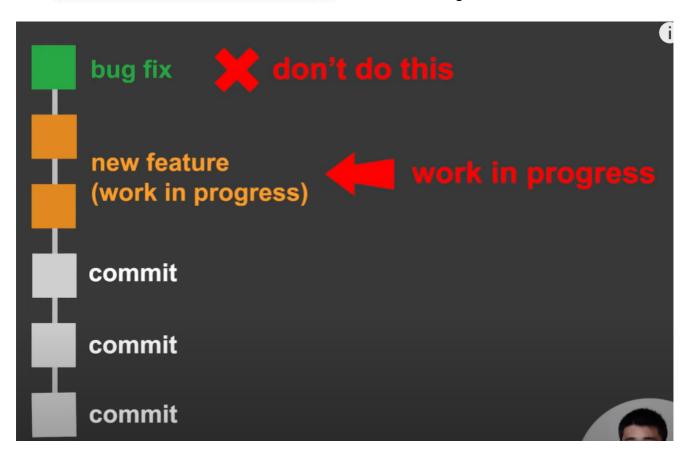
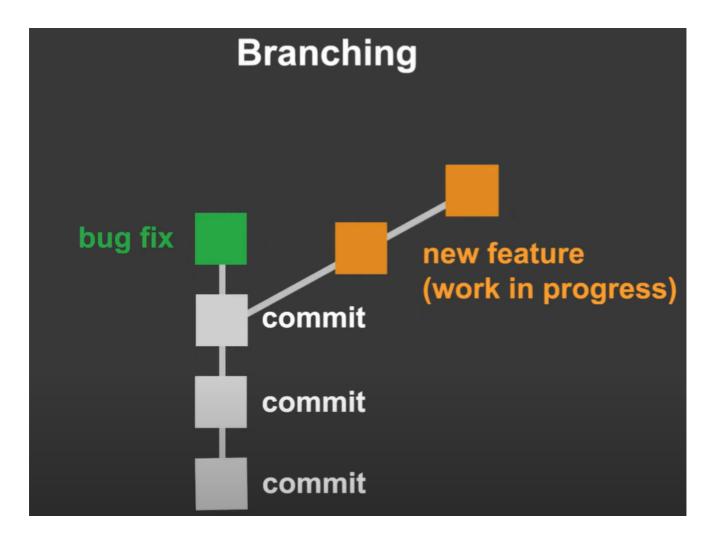
- 1. git init is used to initialize a local repository
- 2. git add <file\_name> is to stage changes for that file
- 3. git add . is used to stage changes for all files in the current directory
- 4. git commit -m "a description about the commit done" commit the changes
- 5. git status is used to check the status of our staging area
- 6. git log tells us what we have committed (like our entire committed history)
- 7. git reset . will unstage all the changes
- 8. git checkout -- <file\_name> is used to undo any changes
- 9. git checkout <hash> to return to a previous version of the commit
- 10. git log --all to show the commits ahead and also before
- 11. q to exit out of git log in case it becomes too long
- 12. git log --all --graph shows possible branches and previous version history
- 13. rm -rf .git removes the entire git history
- 14. git remote add origin <remote\_repo\_url> adding our local repository to an online repository like github (origin is like a convention for the naming) very important concept, is that regardless of what branch we are currently on. It does not affect the git remote add origin command
- 15. git remote tells us how many remote repositories we have
- 16. git remote -v verbose just means like give more details, like showing us the full link
- 17. git remote remove <repo\_name> to remove an online repository

when we upload code to github, it's called push when we download code from github, it's called pull

- To sync computer --> Github (like local repo to online repo)
- 18. git push <online\_repo\_name> <branch\_name> to push local repository to online repository
  - the above command ensures that our local repository is in sync with our online repository
  - origin/master is like a remote tracking branch

- 19. git push <online\_repo\_name> <branch\_name> --setupstream is like saying next time we just run this code instead --> git push will do
  - note that, git push will only pushes on commits
- 20. git push origin master -f this means that we force push the repository
- 21. git fetch update all the remote tracking branches with to the current state in github
  - Used to sync Github --> Computer (like online repo, back to local repo)
- 22. git pull <online\_repo\_name> <branch\_name> this is to sync changes from remote branch back to local branch....when remote branch is ahead.
- 23. git pull --setupstream , then we can just run git pull
- 24. git commit --amend -m "your\_message" we are amending a commit





- 24. git branch <branch\_name> to create a branch (the purpose of creating a branch is for when we have a large feature to work but at the same time we want to separate it from a simple bug fix)
- depending on what branch we are working on, it merges to that branch
- 25. git merge <branch\_name> <branch\_name> is the branch we would like to merge to current working branch
- 26. git branch -D <branch\_name> to delete an existing branch, but we first have to switch to another branch first
- 27. git merge origin/master merges online repo changes to local changes
- this is super important concept, you might wonder why must be merge our online branch to local branch?
- why cannot do the other way around??
- this is because we are unable to checkout to a remote branch
- 28. git branch -a to show all current branches available
- 29. git merge <branch\_name> --allow-unrelated-histories to merge 2 unrelated repositories
- 30. git branch -d <branch\_name> to delete a local branch

- 31. git push origin --delete <branch\_name> to delete online repository branch
- 32. git reset --merge HEAD~1 revert to previous merge commit
- 33. git push -f <remote\_branch\_name> <branch\_name> force push a remote branch

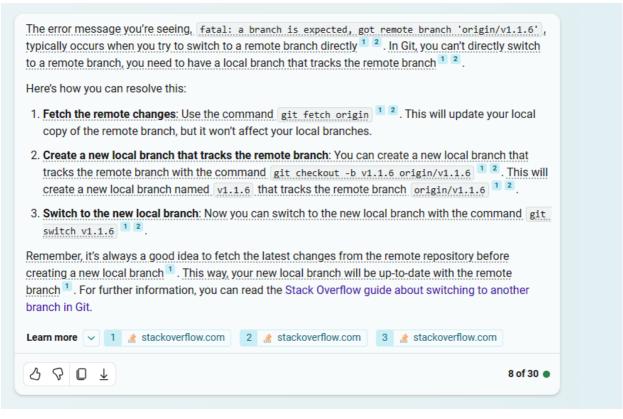
## fatal: Not a valid object name: 'master'

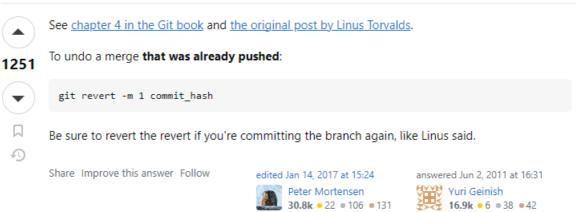
Asked 11 years, 10 months ago Modified 1 month ago Viewed 442k times

- 34) this happens when, we initialized a new local repository but did not git add . and also git commit -m "your\_message"
- 35) git checkout <branch name> note that any checkout is only made locally
- 36) git revert <hash> to revert to a previous commit
- 37) git restore . to discard local changes done
- 38) git reset --hard origin/<branch\_name> reset local branch to match current state of the remote branch
  - merge a specific folder



- Question of the day, can we directly checkout to a remote branch??
- No!!





to undo a merge that has already been pushed

- Feature branches
- is like a workflow, a step-by-step process for using Git and Github

## (from earlier) git-tutorial3 — less ∢ git log --all --graph — 80×24 \* commit cdf08d060fd09a6373cf0b77e6692815570fd9a2 (HEAD -> master) Author: Simon Bao <simon@supersimple.dev> Date: Sat Jun 5 09:49:15 2021 +0800 bug fix \* commit e0e165fe611edc6db7c64a73ce3683ea06607927 (feature1) Author: Simon Bao <simon@supersimple.dev> Sat Jun 5 09:43:46 2021 +0800 Date: feature commit 2 \* commit d753aa5ef88223ecf3fc66f105f90afb2233501d Author: Simon Bao <simon@supersimple.dev> Sat Jun 5 09:42:41 2021 +0800 feature branch feature commit 1 commit 9bb22ff9063a3e1134e5cea3fb289df492868cef Author: Simon Bao <simon@supersimple.dev> Date: Sat Jun 5 09:27:25 2021 +0800 version3

- Feature branch workflow
- 1. Create a feature branch
- 2. Upload feature branch to Github
- 3. Create a Pull Request (for code reviews)
- 4. Merge feature branch into master/main branch

