Git and GitHub Workflow

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Agenda for Discussion

- Version Control System (VCS)
 - Motivation
 - Need for VCS
- 2 Git
 - What is Git?
 - Features
 - Working Principle
 - Getting Started
- GitHub
 - Remote Repositories
 - Branching
 - Merge Branches, Resolving Conflicts
 - Collaboration using GitHub
 - Git Reset, Revert, Rebase





Motivation













• Records your work





Git Version Control System

- Records your work
- Keeps track of every change over time





- Records your work
- Keeps track of every change over time
- Compare earlier versions





- Records your work
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- Compare earlier versions
- Share your project with others





Git Version Control System

- Records your work
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- Share your project with others
- Collaborate with team members





- Records your work
- Keeps track of every change over time
- Compare earlier versions
- Share your project with others
- Collaborate with team members
- Attain peace of mind!:)





Git vs Other VCSs



Figure 2: Storing data as changes to base version of each file [2]





Git Version Control System

Git Introduction

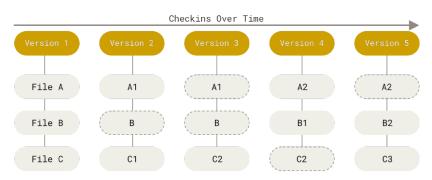


Figure 3: Storing data as snapshots of project over time [2]





Git Version Control System

What is Git? Features Working Principle Getting Started

Git Version Control System





• Every operation is Local





- Every operation is Local
 - * entire project history on local disk
 - * local difference calculation of versions
 - * not much issue if no network connection





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- Has integrity





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 - * impossible to change contents w/o Git knowing about it





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- Only adds data





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 - * before storing everything is check-summed
 - * storing by the hash value of content and not file names
 - ★ impossible to change contents w/o Git knowing about it
- Only adds data
 - * nearly all actions only add data to database
 - * lose of data that is not yet committed





- Every operation is Local
 - * entire project history on local disk
 - * local difference calculation of versions
 - * not much issue if no network connection
- Has integrity
 - * before storing everything is check-summed
 - * storing by the hash value of content and not file names
 - ★ impossible to change contents w/o Git knowing about it
- Only adds data
 - * nearly all actions only add data to database
 - * lose of data that is not yet committed

So, Git essentially stores a snapshot of the current state of the project along with a unique key (hash value) to address it when needed.





What is Git? Features Working Principle Getting Started

Working Principle





Three main states where your files reside in Git:





Git Version Control System

Three main states where your files reside in Git:

Modified Staged Committed





Three main states where your files reside in Git:

Modified Staged Committed

Three main sections of Git project:





Three main states where your files reside in Git:

Modified Staged Committed

Three main sections of Git project:

Working Tree Staging Area Git Directory

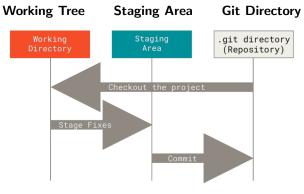




Three main states where your files reside in Git:

Modified Staged Committed

Three main sections of Git project:







Git Workflow

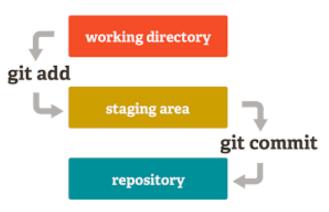


Figure 5: Git Workflow





What is Git? Features Working Principle Getting Started

Getting Started





What is Git? Features Working Principle Getting Started

Getting Started

Create local Git repository





What is Git? Features Working Principl Getting Started

Getting Started

Create local Git repository

mkdir my_eysip_project
git init





Create local Git repository

mkdir my_eysip_project
git init

Setup your identity





Create local Git repository

mkdir my_eysip_project
git init

Setup your identity

```
git config --global user.name <registered_username>
git config --global user.email <registered_email_address>
```





Create local Git repository

mkdir my_eysip_project
git init

Setup your identity

git config --global user.name <registered_username>
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Create and add a file to local repository





Create local Git repository

mkdir my_eysip_project
git init

Setup your identity

git config --global user.name <registered_username>
git config --global user.email <registered_email_address>

Create and add a file to local repository

echo "Hey Git!" > README git add README





What is Git? Features Working Principle Getting Started

Git Version Control System

Getting Started (continued)





What is Git? Features Working Principle Getting Started

Getting Started (continued)

Checking status





What is Git? Features Working Principle Getting Started

Getting Started (continued)

Checking status

git status





Checking status

git status

Commit your changes





Checking status

git status

Commit your changes

git commit -m "<my_commit_message>"





Checking status

git status

Commit your changes

```
git commit -m "<my_commit_message>"
git commit -am "<my_commit_message>"
```





Checking status

git status

Commit your changes

```
git commit -m "<my_commit_message>"
git commit -am "<my_commit_message>"
```





Checking status

git status

Commit your changes

```
git commit -m "<my_commit_message>"
git commit -am "<my_commit_message>"
```

View commit history

git log





Checking status

git status

Commit your changes

```
git commit -m "<my_commit_message>"
git commit -am "<my_commit_message>"
```

```
git log
git log <filename>
```





References

Getting Started (continued)

Checking status

git status

Commit your changes

```
git commit -m "<my_commit_message>"
git commit -am "<my_commit_message>"
```

```
git log
git log <filename>
git log -p (OR) git log --patch
```





References

Getting Started (continued)

Checking status

git status

Commit your changes

```
git commit -m "<my_commit_message>"
git commit -am "<my_commit_message>"
```

```
git log
git log <filename>
git log -p (OR) git log --patch
git log --decorate --oneline (OR) git log --pretty=oneline
```





References

Getting Started (continued)

Checking status

git status

Commit your changes

```
git commit -m "<my_commit_message>"
git commit -am "<my_commit_message>"
```

```
git log
git log <filename>
git log -p (OR) git log --patch
git log --decorate --oneline (OR) git log --pretty=oneline
git log --pretty=format:"%h %s" --graph
```





Git takes snapshots of the tracked files in the working directory and stores a compressed version in its database.





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Some important commands/terms:





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Some important commands/terms:

HEAD





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Some important commands/terms:

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git diff





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```
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git diff
git diff --staged
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git help <command>
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git diff --staged
git help <command>
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Removing files:





Git takes snapshots of the tracked files in the working directory and stores a compressed version in its database.

Some important commands/terms:

```
HEAD
```

```
git diff
git diff --staged
git help <command>
```

Removing files:

```
git rm <filename>
```





Git takes snapshots of the tracked files in the working directory and stores a compressed version in its database.

Some important commands/terms:

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git diff
git diff --staged
git help <command>
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Removing files:

```
git rm <filename>
git rm --cached <filename>
```







Git takes snapshots of the tracked files in the working directory and stores a compressed version in its database.

Some important commands/terms:

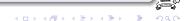
```
HEAD
git diff
git diff --staged
git help <command>
```

Removing files:

```
git rm <filename>
git rm --cached <filename>
```

Moving or Renaming files:





Git takes snapshots of the tracked files in the working directory and stores a compressed version in its database.

Some important commands/terms:

```
HEAD
```

```
git diff
git diff --staged
git help <command>
```

Removing files:

```
git rm <filename>
git rm --cached <filename>
```

Moving or Renaming files:



```
git mv <file_from> <file_to>
```



What is Git? Features Working Principle Getting Started

Git Version Control System

Ignoring Files





What is Git? Features Working Principle Getting Started

Ignoring Files

.gitignore

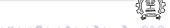




.gitignore

touch .gitignore
cat .gitignore





.gitignore

```
touch .gitignore
cat .gitignore
# ignore all .o files
*.o
```





.gitignore

```
touch .gitignore
cat .gitignore

# ignore all .o files
*.o

# but keep track of main.o, even though ignoring
# .o files above
!main.o
```





```
.gitignore
```

```
touch .gitignore
cat .gitignore
# ignore all .o files
*.0
# but keep track of main.o, even though ignoring
# .o files above
!main.o
# only ignore TODO file in the current directory,
# not subdir/TODO
/TODO
```





```
.gitignore
```





.gitignore

ignore all files in any directory named build build/





.gitignore

- # ignore all files in any directory named build build/
- # ignore docs/dummy_notes.md but not
- # docs/final_notes/arm_arch.md
 docs/*.md





.gitignore

- # ignore all files in any directory named build build/
- # ignore docs/dummy_notes.md but not
- # docs/final_notes/arm_arch.md
 docs/*.md
- # ignore all .html files in the docs/ directory
- # and any of its sub-directories
 docs/**/*.html





.gitignore

- # ignore all files in any directory named build build/
- # ignore docs/dummy_notes.md but not
- # docs/final_notes/arm_arch.md
 docs/*.md
- # ignore all .html files in the docs/ directory
- # and any of its sub-directories
 docs/**/*.html

This file is in root directory usually, but it is also possible to have additional *.gitignore* files in sub-directories.





What is Git? Features Working Principle Getting Started

Undoing Things





Undoing Things

Undoing the commit:





Undoing Things

Undoing the commit:

```
git commit -m "Initial commit"
```





Undoing Things

Undoing the commit:

```
git commit -m "Initial commit"
git add forgotten_file
```





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Un-staging a Staged file:





Undoing the commit:

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git add dummy_notes.md
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Undoing the commit:

```
git commit -m "Initial commit"
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```

Un-staging a Staged file:

```
git add dummy_notes.md
git reset HEAD dummy_notes.md
```





Undoing the commit:

```
git commit -m "Initial commit"
git add forgotten_file
git commit --amend
```

Un-staging a Staged file:

```
git add dummy_notes.md
git reset HEAD dummy_notes.md
```

Un-modifying a Modified file:





Undoing the commit:

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git commit -m "Initial commit"
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git commit --amend
```

Un-staging a Staged file:

```
git add dummy_notes.md
git reset HEAD dummy_notes.md
```

Un-modifying a Modified file:

```
git checkout -- dummy_notes.md
```





Merge Branches, Resolving Conflicts Collaboration using GitHub Git Reset, Revert, Rebase

Add, Fetch, Merge Remote Repos





Merge Branches, Resolving Conflicts Collaboration using GitHub Git Reset, Revert, Rebase

Add, Fetch, Merge Remote Repos

Adding a remote repo explicitly:





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Add, Fetch, Merge Remote Repos

Adding a remote repo explicitly:

```
git remote add <shortname> <.git url>
git remote -v
```





Merge Branches, Resolving Conflicts Collaboration using GitHub Git Reset, Revert, Rebase

Add, Fetch, Merge Remote Repos

Adding a remote repo explicitly:

```
git remote add <shortname> <.git url>
git remote -v
```

Fetching and Merging all information from remote repo:







Remote Repositories
Branching
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Add, Fetch, Merge Remote Repos

Adding a remote repo explicitly:

```
git remote add <shortname> <.git url>
git remote -v
```

Fetching and Merging all information from remote repo:

```
git fetch <shortname>
git merge <shortname>/master
git merge <shortname>/master --allow-unrelated-histories
```







Merge Branches, Resolving Conflicts Collaboration using GitHub Git Reset, Revert, Rebase

Pull from, Push to, Inspect, Clone Remote Repos





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Merge Branches, Resolving Conflicts Collaboration using GitHub Git Reset, Revert, Rebase

Pull from, Push to, Inspect, Clone Remote Repos

Pulling all information from remote repo*:





Pull from, Push to, Inspect, Clone Remote Repos

Pulling all information from remote repo*:

```
git pull <shortname> master
git pull <shortname> master --allow-unrelated-histories
```

* May encounter merge conflict error - will see later





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Pushing to the remote repo:





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git pull <shortname> master
git pull <shortname> master --allow-unrelated-histories
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Pushing to the remote repo:

```
git push <remote> <branch>
git push origin master
```





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Pushing to the remote repo:

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Pushing to the remote repo:

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git push <remote> <branch>
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```

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git remote show origin







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Pushing to the remote repo:

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git push <remote> <branch>
git push origin master
```

Inspecting a remote repo:

git remote show origin



Cloning a remote repo:



Pulling all information from remote repo*:

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git pull <shortname> master
git pull <shortname> master --allow-unrelated-histories
```

* May encounter merge conflict error - will see later

Pushing to the remote repo:

```
git push <remote> <branch>
git push origin master
```

Inspecting a remote repo:

git remote show origin



Cloning a remote repo:

git clone <.git url>



Git Branching

 As stated before, Git stores snapshots of the working directory's staged contents on each commit.





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Git Branching

- As stated before, Git stores snapshots of the working directory's staged contents on each commit.
- Each commit id acts as a key to the respective snapshot of the staged content.





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- Each commit id acts as a key to the respective snapshot of the staged content.



Figure 6: Commits and their parents example [2]





Branching
Branches, Resolving Conflicts
Collaboration using GitHub
Git Reset, Revert, Rebase

Git Branching

 A Git branch is simply a movable pointer associated with a series of such sequential commits.





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Branching
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Git Branching

- A Git branch is simply a movable pointer associated with a series of such sequential commits.
- Default branch name in Git is master.





Git Branching

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Creating a New Branch:





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Creating a New Branch:

git branch testing





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Switching Branches:







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Switching Branches:

git checkout testing git checkout master





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Creating a New Branch:

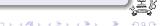
git branch testing

Switching Branches:

git checkout testing git checkout master

Creating and Switching to New Branch at once:





- A Git branch is simply a movable pointer associated with a series of such sequential commits.
- Default branch name in Git is master.

Creating a New Branch:

git branch testing

Switching Branches:

git checkout testing git checkout master

Creating and Switching to New Branch at once:



git checkout -b testing



Merge Branches, Resolving Conflicts

 After creating and switching to a new branch, the HEAD points to the latest commit on this branch.





Merge Branches, Resolving Conflicts

 After creating and switching to a new branch, the HEAD points to the latest commit on this branch.

References

Make changes to new branch and merge:





Merge Branches, Resolving Conflicts

 After creating and switching to a new branch, the HEAD points to the latest commit on this branch.

References

Make changes to new branch and merge:

```
git checkout master
git merge testing / git mergetool
git log --oneline
git branch / git branch --merged <branch>
git branch --no-merged <branch>
```





Merge Branches, Resolving Conflicts

 After creating and switching to a new branch, the HEAD points to the latest commit on this branch.

References

Make changes to new branch and merge:

```
git checkout master
git merge testing / git mergetool
git log --oneline
git branch / git branch --merged <branch>
git branch --no-merged <branch>
```

Push contents of branches to the remote repo:





Merge Branches, Resolving Conflicts

 After creating and switching to a new branch, the HEAD points to the latest commit on this branch.

References

Make changes to new branch and merge:

```
git checkout master
git merge testing / git mergetool
git log --oneline
git branch / git branch --merged <branch>
git branch --no-merged <branch>
```

Push contents of branches to the remote repo:

```
git push origin testing
git push origin master
git log --oneline master / testing
```





Merge Branches, Resolving Conflicts

 After creating and switching to a new branch, the HEAD points to the latest commit on this branch.

References

Make changes to new branch and merge:

```
git checkout master
git merge testing / git mergetool
git log --oneline
git branch / git branch --merged <branch>
git branch --no-merged <branch>
```

Push contents of branches to the remote repo:

```
git push origin testing
git push origin master
git log --oneline master / testing
```

More Branching commands:





Merge Branches, Resolving Conflicts

 After creating and switching to a new branch, the HEAD points to the latest commit on this branch.

References

Make changes to new branch and merge:

```
git checkout master
git merge testing / git mergetool
git log --oneline
git branch / git branch --merged <branch>
git branch --no-merged <branch>
```

Push contents of branches to the remote repo:

```
git push origin testing
git push origin master
git log --oneline master / testing
```

More Branching commands:

```
2
```

```
gitk
gitk --all
git branch -d testing / git push origin --delete testing
```



Working on different branches

Two users working on two different branches of the same remote repository.





Working on different branches

Two users working on two different branches of the same remote repository.

```
User 1:
```





Working on different branches

Two users working on two different branches of the same remote repository.

User 1:

```
git clone <.git url> OR git pull (if already cloned)
git checkout -b user1_branch
<make changes>
git commit -am "user1 commit message"
git push origin user1_branch
```





Working on different branches

Two users working on two different branches of the same remote repository.

User 1:

```
git clone <.git url> OR git pull (if already cloned)
git checkout -b user1_branch
<make changes>
git commit -am "user1 commit message"
git push origin user1_branch
```

References

User 2:





Working on different branches

Two users working on two different branches of the same remote repository.

User 1:

```
git clone <.git url> OR git pull (if already cloned)
git checkout -b user1_branch
<make changes>
git commit -am "user1 commit message"
git push origin user1_branch
```

User 2:

```
git clone <.git url> OR git pull (if already cloned)
git checkout -b user2_branch
<make changes>
git commit -am "user2 commit message"
git push origin user2_branch
```





Working on common master branch

Both users working on same **master** branch of the remote repo.





Git Version Control System

Working on common master branch

Both users working on same **master** branch of the remote repo.

 User1 and User2 - before starting to work, git pull origin master to get all changes from remote repo





Working on common master branch

Both users working on same **master** branch of the remote repo.

- User1 and User2 before starting to work, git pull origin master to get all changes from remote repo
- User1 makes changes, commit them to your local repo





Git Version Control System

Working on common master branch

Both users working on same **master** branch of the remote repo.

- User1 and User2 before starting to work, git pull origin master to get all changes from remote repo
- User1 makes changes, commit them to your local repo
- User1 decides a fixed time and informs User2 before pushing to repo, perform

```
git push origin master to remote repo
```





Working on common master branch

Both users working on same **master** branch of the remote repo.

- User1 and User2 before starting to work, git pull origin master to get all changes from remote repo
- User1 makes changes, commit them to your local repo
- User1 decides a fixed time and informs User2 before pushing to repo, perform

```
git push origin master to remote repo
```

• User2 -

git pull --rebase origin master again to get changes made by *User1*, resolve merge conflicts arising on User2's work manually if it fails during merge **OR** by **Git Stashing** if it fails while starting to merge.



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Git Stashing





Git Stashing

 Git Pull or Merge fails as there are changes in working directory OR staging area that could be overwritten

References





Git Stashing

 Git Pull or Merge fails as there are changes in working directory OR staging area that could be overwritten

References

• Want to switch branches, but don't wish to commit half-done work





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Git Stashing

- Git Pull or Merge fails as there are changes in working directory OR staging area that could be overwritten
- Want to switch branches, but don't wish to commit half-done work

Stashing takes the dirty state of working directory, saves it on a stack of unfinished changes that can be reapplied any time even on different branches.

Stashing your work:





Git Stashing

 Git Pull or Merge fails as there are changes in working directory OR staging area that could be overwritten

References

• Want to switch branches, but don't wish to commit half-done work

Stashing takes the dirty state of working directory, saves it on a stack of unfinished changes that can be reapplied any time even on different branches.

```
Stashing your work:
```

```
git status
git stash push
git status -s
git stash list
git stash apply / git stash apply --index
git status -s
git status -s
git stash drop / git stash drop stash@{0}
git stash pop
git stash push -u / git stash push --patch
```





Git Reset

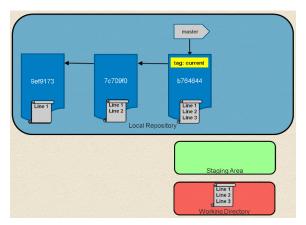


Figure 7: Local Git repository example [4]





Git Reset

```
Reset
```

```
git log --oneline
git reset 9ef9173 / git reset HEAD~2
git log --oneline
cat .git/ORIG_HEAD
git reset <sha1-id>
```





Remote Repositories Branching Merge Branches, Resolving Conflicts Collaboration using GitHub Git Reset, Revert, Rebase

Git Reset

```
Reset
git log --oneline
git reset 9ef9173 / git reset HEAD~2
git log --oneline
cat .git/ORIG_HEAD
git reset <shal-id>
```

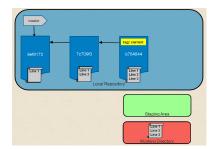


Figure 8: After git reset HEAD 2 [4]



Remote Repositories
Branching
Merge Branches, Resolving Conflicts
Collaboration using GitHub
Git Reset, Revert, Rebase

Git Revert

Revert

```
git log --oneline
git revert HEAD
git log --oneline
cat .git/ORIG_HEAD
git reset <sha1-id>
```





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Remote Repositories
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Git Revert

```
Revert
```

```
git log --oneline
git revert HEAD
git log --oneline
cat .git/ORIG_HEAD
git reset <sha1-id>
```

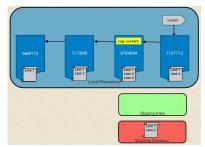


Figure 9: After git revert HEAD [4]





Branching
Branches, Resolving Conflicts
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Git Rebase

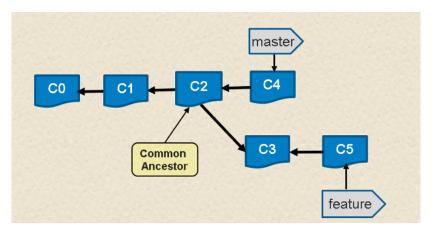


Figure 10: Chain of commits for master and feature branches [4]







Git Rebase

```
Rebase
```

```
git log --oneline master
git log --oneline feature
git checkout feature
git rebase master
git add <some-file>
git rebase --continue / git rebase --abort
git log --oneline feature
```

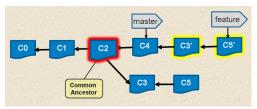
References





Git Rebase

```
Rebase
git log --oneline master
git log --oneline feature
git checkout feature
git rebase master
git add <some-file>
git rebase --continue / git rebase --abort
git log --oneline feature
```









Remote Repositories
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Git Rebase

Rebase

```
cat .git/ORIG_HEAD
git reset <sha1-id>
git log --oneline feature
git reflog
git reset HEAD@{1}
```





Git Rebase

```
Rebase

cat .git/ORIG_HEAD

git reset <sha1-id>
git log --oneline feature
git reflog
git reset HEAD@{1}
```

References

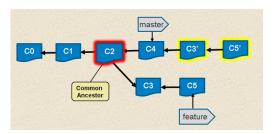




Figure 12: After undo of git rebase master [4]





- [1] PhD Comics
- [2] Pro Git Book, 2nd Edition
- [3] Resolving Merge Conflicts in Git
- [4] How to reset, revert and return to previous state in Git
- [5] Comparing Git Workflows





Thank You!

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Git Version Control System