



GIT CHEAT SHEET

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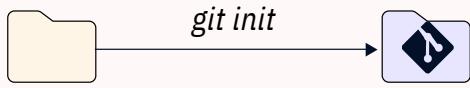
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SETUP & INIT

Configuring user information, initializing and cloning repositories.

\$ git init

Initialize an existing directory as a Git repository.

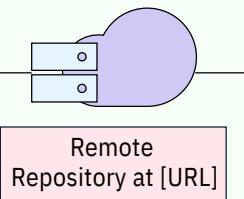


Normal Directory

Git Repository

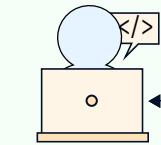
\$ git clone [url]

Retrieve an entire repository from a hosted location via URL.



git clone [URL]

Remote Repository at [URL]



Working Directory

\$ git status

Show modified files in working directory, staged for your next commit.

Git Status



Working Directory



Staged Snapshot



Unstaged Snapshot

\$ git add [file]

Add a file as it looks now to your next commit (stage).



Working Directory

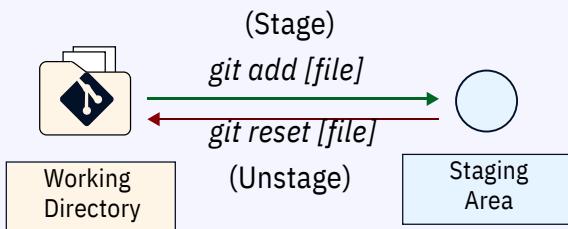
git add [file]
(Stage)



Staging Area

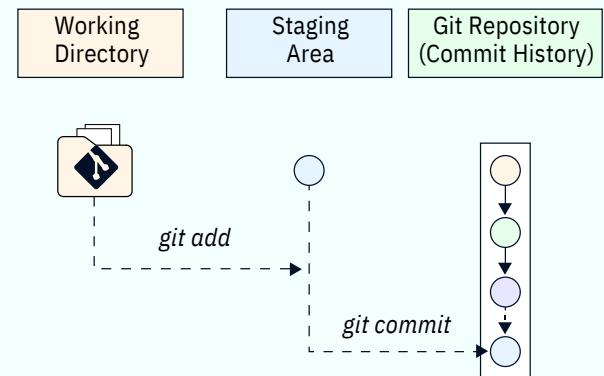
\$ git reset [file]

Unstage a file while retaining the changes in working directory.



\$ git commit -m "[descriptive message]"

Commit your staged content as a new commit snapshot.



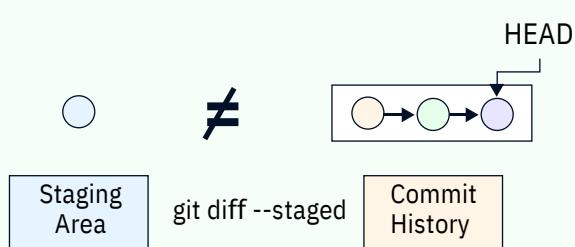
\$ git diff

Diff of what is changed but not staged



git diff --staged

Diff of what is staged but not yet committed.

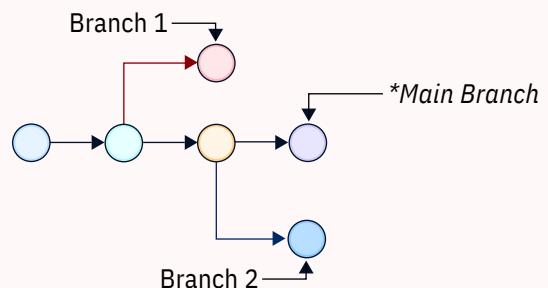


BRANCH & MERGE

Isolating work in branches, changing context, and integrating changes.

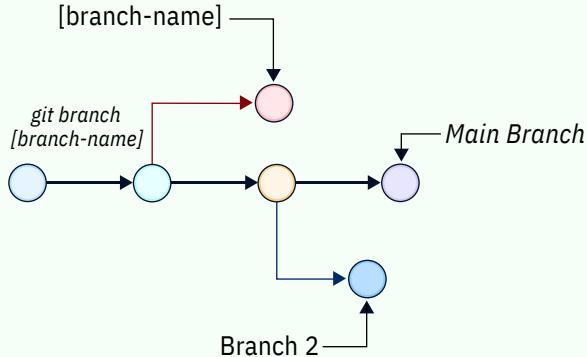
\$ git branch

List your branches. A * will appear next to the currently active branch.



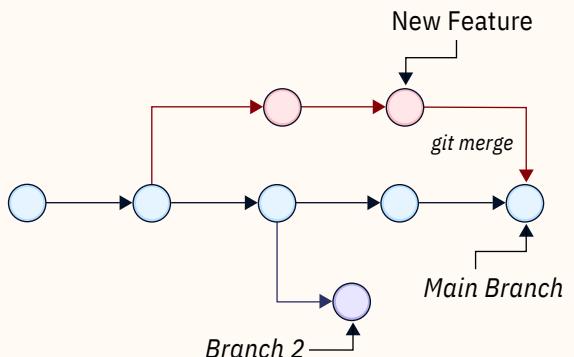
\$ git branch [branch-name]

Create a new branch at the current commit.



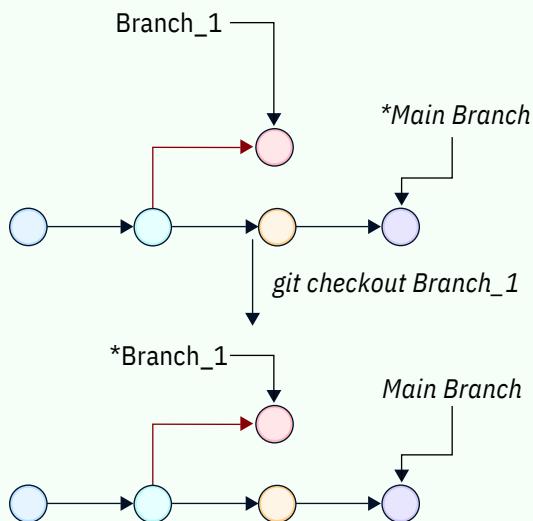
\$ git merge [branch]

Merge the specified branch's history into the current one.



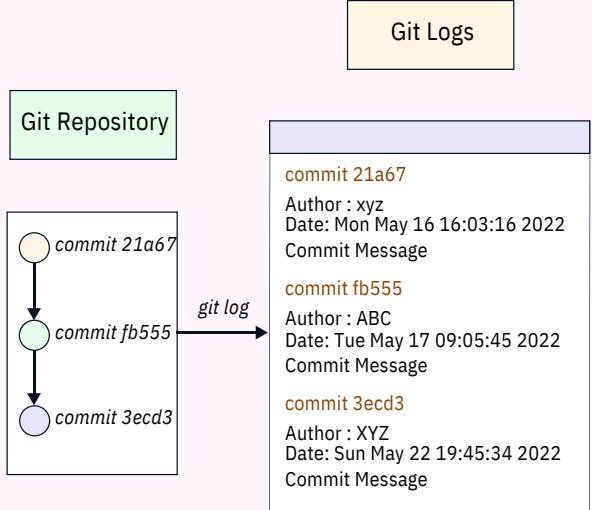
\$ git checkout

Switch to another branch and check it out into your working directory.



\$ git log

Add a file as it looks now to your next commit (stage).

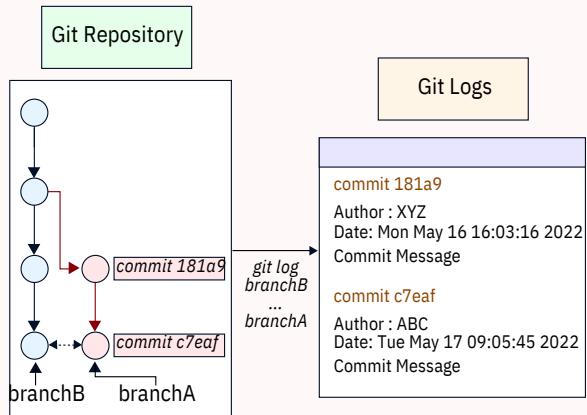


INSPECT & COMPARE

Configuring user information,
initializing and cloning repositories.

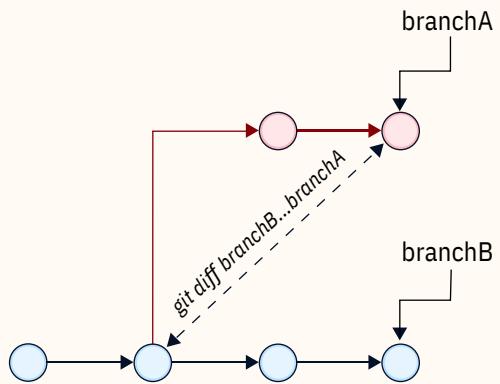
\$ git log branchB..branchA

Show the commits on branchA that
are not on branchB.



\$ git diff branchB...branchA

Show the diff of what is in branchA
that is not in branchB.



\$ git log --follow [file]

Show the commits that changed file,
even across renames.

\$ git show [SHA]

Show any object in Git in
human-readable format.

commit 715c3

git show 715c3

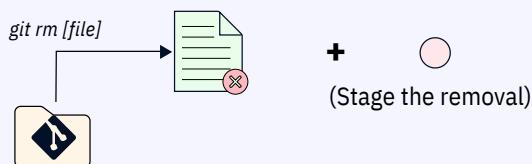
commit 715c3
Author : XYZ
Date: Mon May 16 16:03:16 2022
Commit Message
File1
File1 Changes
File2
File2 Changes
...

TRACKING PATH CHANGES

Versioning file removes and path changes.

\$ git rm [file]

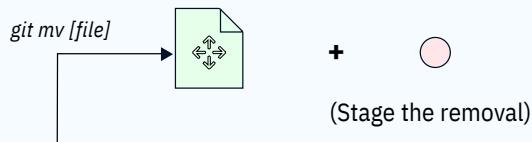
Delete the file from the project and stage the removal for commit.



Git Repository

\$ git mv [existing-path] [new-path]

Change an existing file path and stage the move.



Git Repository

\$ git log --stat -M

Show all commit logs with indication of any paths that moved.

IGNORING PATTERNS

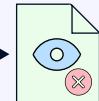
Preventing unintentional staging or committing of files.

logs/
*.notes
pattern*/

Save a file with desired patterns as .gitignore with either direct string matches or wildcard globs.

.gitignore

logs/
*.notes
pattern*/



\$ git config --global core.excludesfile [file]

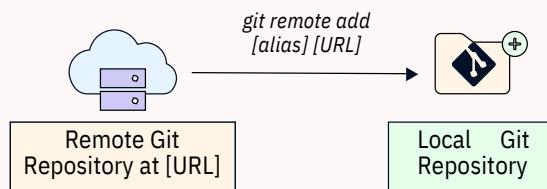
System wide ignore pattern for all local repositories

SHARE & UPDATE

Retrieving updates from another repository and updating local repos.

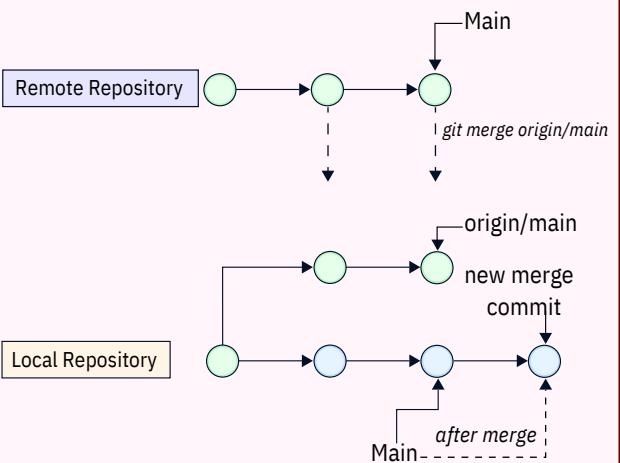
\$ git remote add [alias] [url]

Add a git URL as an alias.



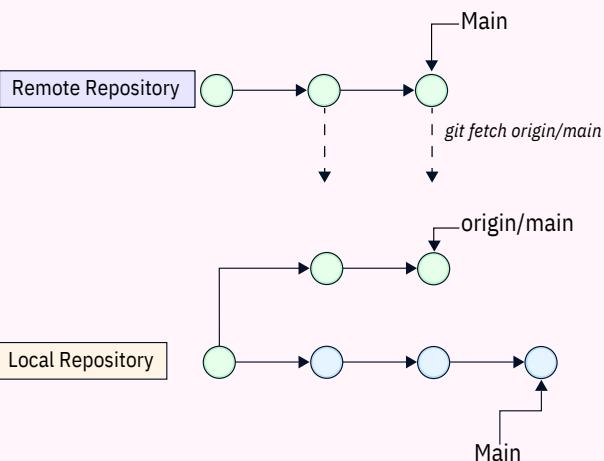
\$ git merge [alias]/[branch]

Merge a remote branch into your current branch to bring it up to date.



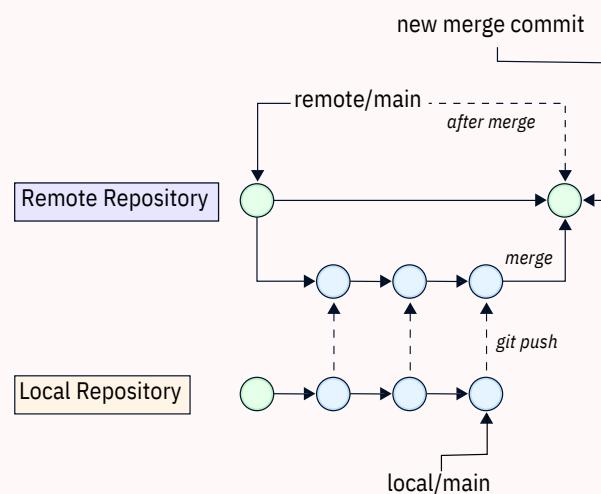
\$ git fetch [alias]

Fetch down all the branches from that Git remote.



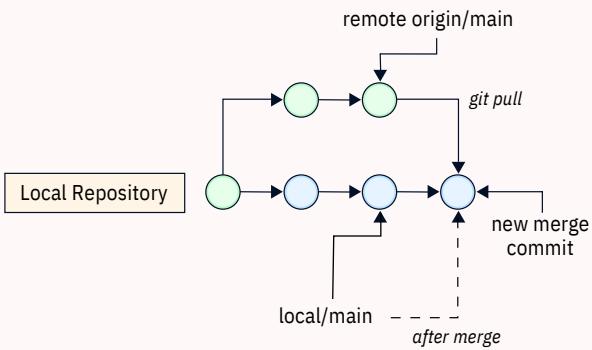
\$ git push [alias] [branch]

Transmit local branch commits to the remote repository branch.



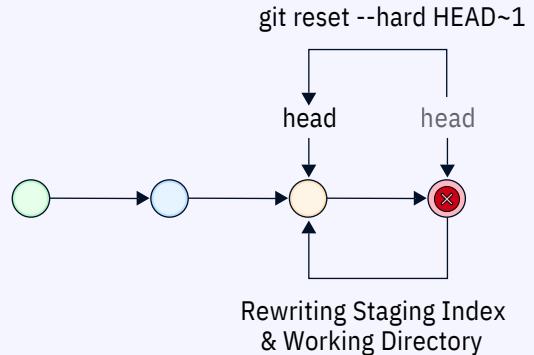
\$ git pull

Fetch and merge any commits from the tracking remote branch.



\$ git reset --hard [commit]

Clear staging area, rewrite working tree from specified commit.

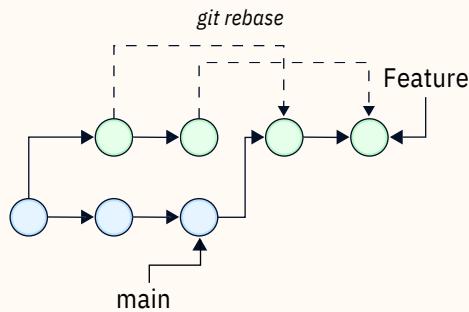


REWRITE HISTORY

Rewriting branches, updating commits and clearing history.

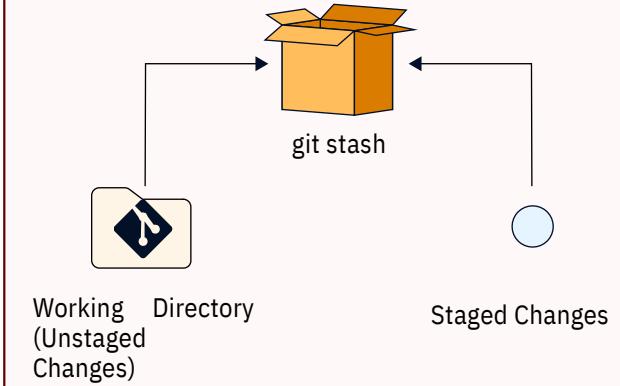
\$ git rebase [branch]

Apply any commits of the current branch ahead of specified one.



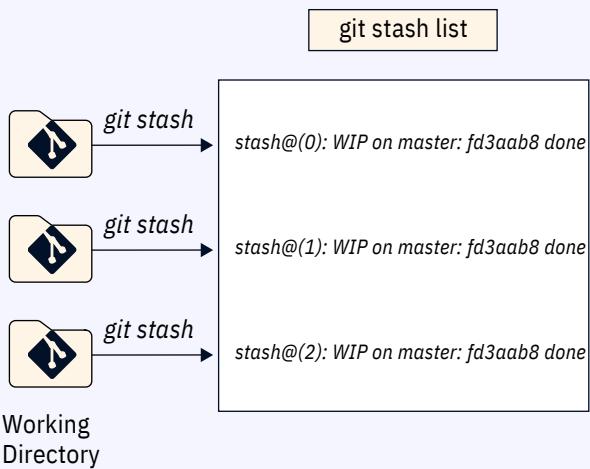
\$ git stash

Save modified and staged changes.



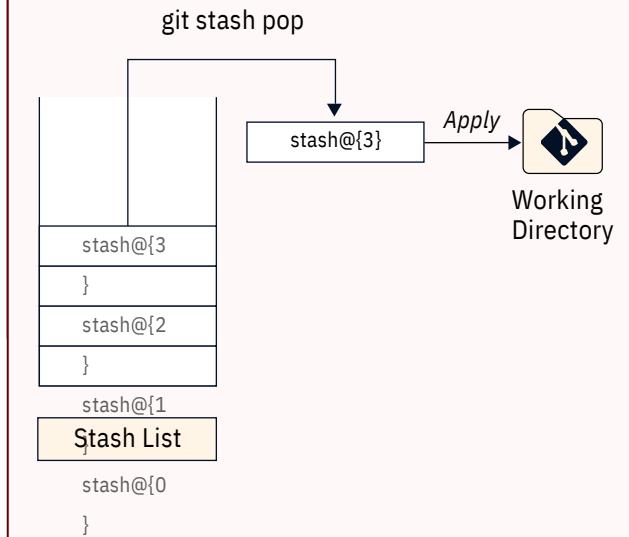
\$ git stash list

List stack-order of stashed file changes.



\$ git stash pop

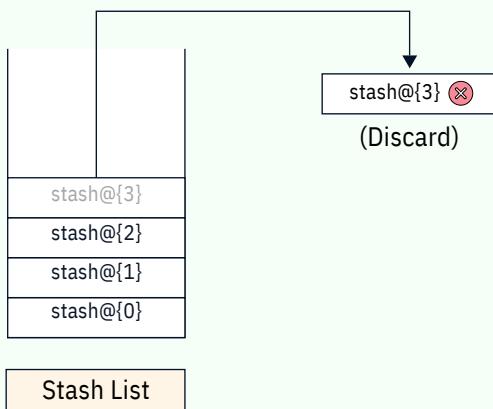
Write working from the top of the stash stack.



\$ git stash drop

Discard the changes from the top of the stash stack.

git stash drop





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