

Browsing History

Viewing the history

<code>git log --stat</code>	<code># Shows the list of modified files</code>
<code>git log --patch</code>	<code># Shows the actual changes (patches)</code>

Filtering the history

<code>git log -3</code>	<code># Shows the last 3 entries</code>
<code>git log --author="Mosh"</code>	
<code>git log --before="2020-08-17"</code>	
<code>git log --after="one week ago"</code>	
<code>git log --grep="GUI"</code>	<code># Commits with "GUI" in their message</code>
<code>git log -S"GUI"</code>	<code># Commits with "GUI" in their patches</code>
<code>git log hash1..hash2</code>	<code># Range of commits</code>
<code>git log file.txt</code>	<code># Commits that touched file.txt</code>

Formatting the log output

`git log --pretty=format:"%an committed %H"`

Creating an alias

`git config --global alias.lg "log --oneline"`

Viewing a commit

<code>git show HEAD~2</code>	
<code>git show HEAD~2:file1.txt</code>	<code># Shows the version of file stored in this commit</code>

Comparing commits

<code>git diff HEAD~2 HEAD</code>	<code># Shows the changes between two commits</code>
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git diff HEAD~2 HEAD file.txt # Changes to file.txt only

Checking out a commit

git checkout dad47ed # Checks out the given commit
git checkout master # Checks out the master branch

Finding a bad commit

git bisect start
git bisect bad # Marks the current commit as a bad commit
git bisect good ca49180 # Marks the given commit as a good commit
git bisect reset # Terminates the bisect session

Finding contributors

git shortlog

Viewing the history of a file

git log file.txt # Shows the commits that touched file.txt
git log --stat file.txt # Shows statistics (the number of changes) for file.txt
git log --patch file.txt # Shows the patches (changes) applied to file.txt

Finding the author of lines

git blame file.txt # Shows the author of each line in file.txt

Tagging

git tag v1.0 # Tags the last commit as v1.0
git tag v1.0 5e7a828 # Tags an earlier commit
git tag # Lists all the tags
git tag -d v1.0 # Deletes the given tag