



Creating or cloning repositories
From existing data
<pre>\$ cd my_project_dir \$ git init \$ git add . \$ git commit -m 'initial commit'</pre>
From existing repo
<pre>\$ git clone path/to/existing/repo path/to/new/repo \$ git clone you@host.de:dir/project.git \$ git clone http://[USER@]host.de/project.git</pre>

Getting information Files changed in working directory \$ git status Changes of tracked files \$ git diff Changes between ID1 and ID2 \$ git diff < ID1> < ID2> History of changes \$ git log \$ gitk

Working with the Index and committing changes
Add all changes in a file or directory to the index
\$ git add path/to/add
Interactively select changes for addition/committing
<pre>\$ git add -p [path/to/preselect/changes] \$ git commit -p</pre>
Commit changes added to the index
\$ git commit
Add and commit all local changes
\$ git commit -a
Commit changes without editing the message
\$ git commit -m " <message>"</message>

Working with Branches
List all branches
<pre>\$ git branch \$ git branch -a</pre>
list remote branches as well
Switch to a branch
<pre>\$ git checkout <branch></branch></pre>
Merge Branch B1 into B2
<pre>\$ git checkout <b2> \$ git merge <b1></b1></b2></pre>
or
\$ git mergeno-ff <b1></b1>
generates commit even if fast-forwarding is possible
Create Branch based on HEAD and checkout
<pre>\$ git checkout -b <branch></branch></pre>
Delete a branch
<pre>\$ git branch -d <branch></branch></pre>
<pre>\$ git branch -D <branch></branch></pre>

Get changes from upstream

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Fetch changes from a	ı remote		
\$ git fetch [remote]			
		remote defaults to ori	gin
Get changes			
\$ git pull [remote]	[refspec]		
		remote defaults to ori	gin

Delete a branch that is not merged to the default branch

Publishing changes Push changes to a remote \$ git push [origin] [branch] Create tags \$ git tag [-s] <tag name> with -s the tag is signed with GPG Prepare a patch \$ git format-patch origin

Return to last committed state	3
\$ git resethard	
Revert specific commit	
\$ git revert <id></id>	
	this is safe for published commits
flx/change last commit	
\$ git commitamend	
	never do this on a published commit
	unless you know what you are doing

Reverting changes

${f Misc}$
Documentation/help
<pre>\$ git help [command] \$ man git-[command]</pre>
Delete branch (locally and remote)
<pre>\$ git branch -d <branch> \$ git push <origin> :<branch></branch></origin></branch></pre>
Beautify non-pushed history interactively
<pre>\$ git rebase -i <id></id></pre>