GIT BASIC	
git init <directory></directory>	Create empty Git repo in specified directory. Run with no arguments to initialize the current directory as a git repository
git clone <repo></repo>	Clone repo located at onto local machine. Original repo can be located on the local filesystem or on a remote machine via HTTP or SSH.
git config user.name < name >	Define author name to be used for all commits in current repo. Devs commonly useglobal flag to set config options for current user.
git add <directory></directory>	Stage all changes in <directory> for the next commit. Replace <directory> with a <file> to change a specific file.</file></directory></directory>
git commit -m " <message></message>	Commit the staged snapshot, but instead of launching a text editor, use <message> as the commit message.</message>
git status	List which files are staged, unstaged, and untracked
git log	Display the entire commit history using the default format. For customization see additional options
git diff	Show unstaged changes between your index and working directory
UNDOING CHANGES	
git revert <commit></commit>	Create new commit that undoes all of the changes made in <commit>, then apply it to the current branch.</commit>
git reset <file></file>	Remove <file> from the staging area, but leave the working directory unchanged. This unstages a file without overwriting any changes</file>
git clean -n	Shows which files would be removed from working directory. Use the -f flag in place of the -n flag to execute the clean.
GIT DIFF	
git diff HEAD	Show difference between working directory and last commit.
git diffcached	Show difference between staged changes and last commit

Git Commands

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REWRITING GIT HISTORY	
Replace the last commit with the staged changes and last commit combined. Use with nothing staged to edit the last commit's message.	
Rebase the current branch onto <base/> . <base/> can be a commit ID, branch name, a tag, or a relative reference to HEAD.	
Show a log of changes to the local repository's HEAD. Addrelative-date flag to show date info orall to show all refs.	
GIT BRANCHES	
List all of the branches in your repo. Add a <branch> argument to create a new branch with the name <branch></branch></branch>	
Create and check out a new branch named <branch>. Drop the -b flag to checkout an existing branch.</branch>	
Merge into the current branch.	
REMOTE REPOSITORIES	
Create a new connection to a remote repo. After adding a remote, you can use <name> as a shortcut for <url> in other commands.</url></name>	
Fetches a specific branch>, from the repo. Leave off branch> to fetch all remote refs.	
Fetch the specified remote's copy of current branch and immediately merge it into the local copy.	
Push the branch to <remote>, along with necessary commits and objects. Creates named branch in the remote repo if it doesn't exist.</remote>	
GIT CONFIG	
Define the author name to be used for all commits by the current user	
Define the author email to be used for all commits by the current user.	
Create shortcut for a Git command. E.g. alias.glog "loggraphoneline" will set "git glog" equivalent to "git loggraphoneline.	

Git Commands

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<git-command></git-command>	
git configsystem core.editor < editor >	Set text editor used by commands for all users on the machine. <editor> arg should be the command that launches the desired editor (e.g., vi).</editor>
git config globaledit	Open the global configuration file in a text editor for manual editing
	GIT LOG
git log - <limit></limit>	Limit number of commits by E.g. "git log -5" will limit to 5 commits
git logoneline	Condense each commit to a single line.
git log -p	Display the full diff of each commit.
git logstat	Include which files were altered and the relative number of lines that were added or deleted from each of them.
git logauthor= " <pattern></pattern>	Search for commits by a particular author.
git log grep=" <pattern>"</pattern>	Search for commits with a commit message that matches <pattern></pattern>
git log <since><until></until></since>	Show commits that occur between <since> and <until>. Args can be a commit ID, branch name, HEAD, or any other kind of revision reference.</until></since>
git log <file></file>	Only display commits that have the specified file.
git loggraph decorate	graph flag draws a text based graph of commits on left side of commit msgsdecorate adds names of branches or tags of commits shown.