GIT BASICS

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 <pre> <repo> onto local machine. Original repo can be located on the local filesystem or on a remote machine via HTTP or SSH .</repo></pre>
git config user.name <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.

REWRITING GIT HISTORY

git commit amend	Replace the last commit with the staged changes and last commit combined. Use with nothing staged to edit the last commit's message.		
git rebase <base/>	Rebase the current branch onto <i><base/> <base/></i> can be a commit ID, branch name, a tag, or a relative reference to <i>HEAD</i> .		
git reflog	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

git branch	List all of the branches in your repo. Add a <i><branch></branch></i> argument to create a new branch with the name <i><branch></branch></i> .
git checkout -b 	Create and check out a new branch named $\mbox{\it chranch}>$. Drop the $\mbox{\it -b}$ flag to checkout an existing branch.
git merge <branch></branch>	Merge <i><branch></branch></i> into the current branch.

REMOTE REPOSITORIES

git remote add <name> <url></url></name>	Create a new connection to a remote repo. After adding a remote, you can use <name>as a shortcut for <url></url></name>
git fetch <remote> <branch></branch></remote>	Fetches a specific <i><branch></branch></i> , from the repo. Leave off <i><branch></branch></i> to fetch all remote refs.
git pull <remote></remote>	Fetch the specified remote's copy of current branch and immediately merge it into the local copy.
git push <remote> <branch></branch></remote>	Push the branch to <pre><remote></remote></pre> , along with necessary commits and objects. Creates named branch in the remote repo if it doesn't exist.

GIT DIFF

git configglobal	Define the author name to be used for all commits by the current user	git diff HEAD	Show difference between working directory and last commit.
user.name <name></name>	beine the dathor name to be used for all commits by the current user	git diffcached	Show difference between staged changes and last commit
git configglobal user.email <email> Define the author email to be used for all commits by the current user.email</email>		PrGIT RESET	
git configglobal alias. <alias-name> <git-command></git-command></alias-name>	Create shortcut for a Git command. E.g.alias.glog "loggraphoneline" will set "git glog" equivalent to "git loggraphoneline.	git reset	Reset staging area to match most recent commit, but leave the working directory unchanged.
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 reset hard).	Reset staging area and working directory to match most recent commit and overwrites all changes in the working directory.
git config globaledit	Open the global configuration file in a text editor for manual editing.	git reset <commit></commit>	Move the current branch tip backward to <i><commit></commit></i> , reset the staging area to match, but leave the working directory alone.
GIT LOG		git resethard <commit></commit>	Same as previous, but resets both the staging area & working directory to match. Deletes uncommitted changes, and all commits after < commit>.
git log - <limit></limit>	Limit number of commits by E.g. "git log -5" will limit to 5 commits.	GIT REBASE	
git logoneline	Condense each commit to a single line.	git rebase -i	Interactively rebase current branch onto < base > . Launches editor to enter
git log -p	Display the full diff of each commit.	<base/>	commands for how each commit will be transferred to the new base.
git logstat	Include which files were altered and the relative number of		
gg	lines that were added or deleted from each of them.	GIT PULL	
git logauthor= " <pattern>"</pattern>	lines that were added or deleted from each of them. Search for commits by a particular author.	git pullrebase <remote></remote>	Fetch the remote's copy of current branch and rebases it into the local copy. Uses git rebase instead of merge to integrate the branches.
git logauthor=		git pullrebase	
git logauthor= " <pattern>" git log</pattern>	Search for commits by a particular author. Search for commits with a commit message that	git pullrebase <remote></remote>	
git logauthor= " <pattern>" git loggrep="<pattern>" git log</pattern></pattern>	Search for commits by a particular author. Search for commits with a commit message that matches <pattern> Show commits that occur between <since> and <until> . Args can be a</until></since></pattern>	git pullrebase <remote> GIT PUSH git push <remote></remote></remote>	copy. Uses git rebase instead of merge to integrate the branches. Forces the git push even if it results in a non-fast-forward merge. Do not use