

Git Cheat Sheet

Init existing repository

```
mkdir NewDir && cd NewDir && git init
```

```
git commit -m 'first commit'
```

```
git remote add origin git@github.com:Treehopper/Git-Cheat-Sheet.git
```

```
git push --set-upstream origin master
```

Clone existing repository

```
git clone git@github.com:Treehopper/Git-Cheat-Sheet.git
```

Import from SVN into existing repository

```
git svn clone --shared SVN_REPO_URL LOCAL_DIR && cd LOCAL_DIR
```

```
git remote add origin git@github.com:GITHUB_USERNAME/REPO_NAME.git
```

```
git push origin master
```

```
git svn --authors-file=path/to/authors_file clone SVN_REPO_URL LOCAL_DIR
```

Basics

add file	git add foobar.txt
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show changes	git log && git diff
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commit changes	git commit <file> -m "message"
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commit all changes	git commit --all -m "message"
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transmit changes	git push
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receive changes	git pull #(or git fetch)
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~/.gitconfig

```
[alias]
```

```
st = status . --untracked-files=no --short
```

```
ci = commit
```

```
ls = ls-files
```

```
lg = --oneline --decorate=no --stat --graph --date-order
```

```
lol = log --graph --decorate --oneline
```

Modifications

real short status	git status -uno -s
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concise logging info	git log -9 --oneline --color=always --decorate=no --stat --graph --date-order
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what happened during my vacation	git log --since=2weeks
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push local changes on a stack and return to last committed state for now	git stash && ... && git pop
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Undo/Change Commits

revert committed changes	git revert HEAD "foobar.txt" git checkout HEAD foobar.txt
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check out latest version	git checkout HEAD foobar.txt
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reset last commit so you can add missing files (don't use after git push)	git reset --soft HEAD^
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change latest commit	git commit --amend
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Looking in the Past

what did a file look like 9 commits ago	git show HEAD~9:.muttrc
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what changed between two commits	git diff HEAD~2 HEAD~3
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Branching and Merging

Branch off new Release Branch	git checkout -b release mainline
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Merge Release Branch Changes back	git checkout mainline git merge release_x
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replay commits to Feature Branch onto the Mainline	git rebase featurex mainline
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mark the nearest commit whose message begins with a keyword as stable	git tag "stable" :/"fixed"
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