



# Git - 0 to Pro Cheatsheet

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Tutorial link: <https://www.youtube.com/watch?v=hrTQipWp6co>

## Command Line (Terminal / PowerShell)

`ls`

List the files and folders in the current folder

`cd ~/Desktop/folder`

Change the folder that the command line is running in

**Note:** git commands must be run inside the folder that contains all the code.

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## Creating Commits

In Git, version = commit

Version history = commit history

`git init`

Git will start tracking all changes in the current folder

`git status`

Show all changes since the previous commit

`git add <file|folder>`

Pick changes to go into next commit

`git add file`

Pick individual file

`git add folder/`

Pick all files inside a folder (and subfolders)

`git add .`

Pick all files (in folder command line is running in)

`git commit -m "Message"`

Creates a commit with a message attached

`git commit -m "Message" --amend`

Update previous commit instead of creating new one

`git log`

View the commit history

`git log --all`

Show all commits (not just current branch)

`git log --all --graph`

Show branching visually in the command line

## Configure Name & Email for Commits

`git config --global user.name "Your Name"`

`git config --global user.email "email@example.com"`

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**Working Area** = contains changes start in the working area

**Staging Area** = contains changes that will go into the next commit

<code>git add .</code>	working => staging
<code>git commit -m "Message"</code>	staging => commit history

<code>git reset &lt;file folder&gt;</code>	staging => working
<code>git reset file</code>	
<code>git reset folder/</code>	
<code>git reset .</code>	

<code>git checkout -- &lt;file folder&gt;</code>	working => remove the changes
<code>git checkout -- file</code>	
<code>git checkout -- folder/</code>	
<code>git checkout -- .</code>	

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## Viewing Previous Commits

<code>git checkout &lt;commit_hash branch_name&gt;</code>	View a previous commit
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```
commit 81491250a2a940babba4a3f69bec7aa2c87b782a (master)
Author: Simon Bao <simon@supersimple.dev>
Date: Sat Feb 20 07:19:11 2021 +0800

    Version 3

commit 4fb1b33d86a825c517b0376ebd950111f98d0ada
Author: Simon Bao <simon@supersimple.dev>
Date: Sat Feb 20 07:18:53 2021 +0800

    Version 2

commit 400e1ba797f732c94e290774aacfd4738c864db8 (HEAD)
Author: supersimpledev <supersimpledev@Simons-MacBook-Pro.local>
Date: Sat Feb 20 05:49:00 2021 +0800

    Version 1
```

**master** = branch name

1. You can `git checkout branch`
2. Always points to latest commit on the branch.

**HEAD** = indicates which commit you are currently viewing

## Restoring to a Previous Commit

<code>git checkout &lt;hash branch&gt; &lt;file folder&gt;</code>	Restore the contents of files back to a previous commit
<code>git checkout &lt;hash branch&gt; file</code>	Restore a file
<code>git checkout &lt;hash branch&gt; folder/</code>	Restore all files in folder (& subfolders)
<code>git checkout &lt;hash branch&gt; .</code>	Restore all files in project

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## Other

<code>git config --global alias.shortcut &lt;command&gt;</code>	Creates an alias (shortcut)
<code>git config --global alias.s "status"</code>	<code>git s = git status</code>

<code>.gitignore</code>	Tell git which files/folders it SHOULD NOT track
<code>rm -rf .git</code>	Remove git from project