

Git branching solution to

<https://learngitbranching.js.org/>

This document contains the solution of every exercise of above mentioned website.
This is for the beginners to go through it if they find any exercise hard to solve.

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Git Main

Introduction Sequence

Introduction to git commits

- `git commit`
- `git commit`

Branching in git

- `git checkout -b bugFix`

Merging in git

- `git checkout -b bugFix`
- `git commit`
- `git checkout master`
- `git commit`
- `git merge bugFix`

Rebase introduction

- `git checkout -b bugFix`
- `git commit`
- `git checkout master`
- `git commit`
- `git checkout bugFix`
- `git rebase master`

Ramping up

Detach yo' HEAD

- `git checkout c4`

Relative Refs (^)

- `git checkout bugFix^`

Relative Refs #2 (~)

- `git checkout HEAD^`
- `git branch -f master c6`
- `git branch -f bugFix c0`

Reversing changes in git

- `git reset HEAD~1`
- `git checkout pushed`
- `git revert HEAD`

Moving work around

Cherry-pick introduction

- `git cherry-pick c3 c4 c7`

Interactive Rebase introduction

- `git rebase -i HEAD~4` here you've to omit the c2

A Mixed bag

Grabbing just 1 commit

- `git checkout master`
- `git cherry-pick c4`

Juggling commits

- `git rebase -i HEAD~2`
- `git commit --amend`
- `git rebase -i HEAD~2`
- `git checkout master`
- `git rebase caption`

Juggling commit #2

- `git checkout master`
- `git cherry-pick c2`
- `git commit --amend`
- `git cherry-pick c3`

Git tags

- `git tag v0 c1`
- `git tag v1 c2`
- `git checkout c2`

Git describe

- `git commit`

Advanced topics

Rebasing over 9000 times

- `git rebase master bugFix`
- `git rebase bugFix side`
- `git rebase side another`
- `git rebase another master`

Multiple parents

- `git branch bugWork master~^2~`

Branch spaghetti

- `git branch -f three c2`
- `git checkout one`
- `git cherry-pick c4 c3 c2`
- `git checkout two`
- `git cherry-pick c5 c4 c3 c2`

Git Remote

Push & Pull

Clone introduction

- `git clone`

Remote branches

- `git commit`
- `git checkout o/master`
- `git commit`

Git fetching

- `git fetch`

Git pulling

- `git pull`

Faking teamwork

- `git clone`
- `git fakeTeamwork master 2`
- `git commit`
- `git pull`

Git pushing

- `git commit`
- `git commit`
- `git push`

Diverged History

- `git clone`
- `git fakeTeamwork master 1`

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- git commit
- git pull --rebase
- git push

To origin & beyond

Push master

- git fetch
- git rebase o/master side1
- git rebase side1 side2
- git rebase side2 side3
- git rebase side3 master
- git push

Merging with remotes

<ul style="list-style-type: none">• Git checkout master• git pull• git merge side1• git merge side2• git merge side3• git push	<ul style="list-style-type: none">• Git fetch• git checkout side1• git merge o/master• git merge side2• git merge side3• git checkout master• git merge side1• git push
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Remote Tracking

- git checkout -b side o/master
- git commit
- git pull --rebase
- git push

Git push arguments

- git push origin master
- git push origin

Git push arguments –expanded

- `git push origin master^:foo`
- `git push origin foo:master`

Fetch arguments

- `git fetch origin master^:foo`
- `git fetch origin foo:master`
- `git checkout foo`
- `git merge master`

Source of nothing

- `git push origin :foo`
- `git fetch origin :bar`

Pull arguments

- `git pull origin bar:foo`
- `git pull origin master:side`