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# How can I specify a branch/tag when adding a Git submodule?

Asked 13 years, 1 month ago Modified 25 days ago Viewed 855k times

Ask Question

How does git submodule add -b work?

1030 After adding a submodule with a specific branch, a new cloned repository (after git submodule update --init) will be at a specific commit, not the branch itself (git status on the submodule shows "Not currently on any branch").

I can't find any information on .gitmodules or .git/config about the submodule's branch or any specific commit, so how does Git figure it out?

Also, is it possible to specify a tag instead of a branch?

I'm using version 1.6.5.2.

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edited Nov 6, 2018 at 16:20
Fabio says Reinstate
Monica
4,868 • 8 • 42 • 60

asked Nov 22, 2009 at 4:55

| Van | 93.4k • 16 • 49 • 58

5 If you have an existing submodule which isn't tracking a branch yet, but you wish it now would track a branch... see my answer below – VonC Sep 14, 2013 at 7:00

it seems I can specify the branch in the <code>.gitmodules</code> file but when I do <code>git</code> submodule update and variants (e.g. -all, --recursive, etc) it doesn't pull the git submodule to the right branch. This is obvious rom the <code>git</code> submodule status. How do I pull and make sure it's in the right branch? Otherwise what is the point of specifying the branch then? - Charlie Parker Jan 3 at 0:444

Add a commen

### 14 Answers

990

I'd like to add an answer here that is really just a conglomerate of other answers, but I think it may be more complete.

You know you have a Git submodule when you have these two things.

1. Your .gitmodules has an entry like so:

М

[submodule "SubmoduleTestRepo"]
 path = SubmoduleTestRepo
 url = https://github.com/jzaccone/SubmoduleTestRepo.git

2. You have a submodule object (named SubmoduleTestRepo in this example) in your Git repository. <u>GitHub</u> shows these as "submodule" objects. Or do git submodule status from a command line. Git submodule objects are special kinds of Git objects, and they hold the SHA information for a specific commit.

Whenever you do a git submodule update, it will populate your submodule with content from the commit. It knows where to find the commit because of the information in the .gitmodules.

Now, all the -b does is add one line in your .gitmodules file. So following the same example, it would look like this:

[submodule "SubmoduleTestRepo"]
path = SubmoduleTestRepo
url = https://github.com/jzaccone/SubmoduleTestRepo.git
branch = master

Note: only branch name is supported in a .gitmodules file, but SHA and TAG are not supported! (instead of that, the branch's commit of each module can be tracked and updated using "git add .", for example like git add ./SubmoduleTestRepo, and you do not need to change the .gitmodules file each time)

The submodule object is still pointing at a specific commit. The only thing that the -b option buys you is the ability to add a --remote flag to your update as per Vogella's answer:

git submodule update --remote

Instead of populating the content of the submodule to the commit pointed to by the submodule, it replaces that commit with the latest commit on the master branch, THEN it populates the submodule with that commit. This can be done in two steps by djacobs7 answer. Since you have now updated the commit the submodule object is pointing to, you have to commit the changed submodule object into your Git repository.

git submodule add -b is not some magically way to keep everything up to date with a

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Featured on Meta

- 2022 Community-a-thon Recap
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- Temporary policy: ChatGPT is banned

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- Why my Git submodule is automatically detached HEAD to a specific commit?
- 4275 How do I remove a submodule?
- 1034 Definition of "downstream" and "upstream"
- Why did my Git repo enter a detached HEAD state?
- Why is my Git Submodule HEAD detached from master?
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- git submodule tracking latest
- 193 SVN:externals equivalent in Git?
- Force Git submodules to always stay current

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### populating it.

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edited Sep 22, 2022 at 20:42



13.5k • 4 • 27 • 35

- 34 This answer should have more up-votes. I've been reading many posts for the past day and this clears up all the confusion. Coming from the SVN world and using externals one wants to believe that git submodule branch tracking does magically keep everything up to date from the branch but this is not true! You have to explicitly update them! As you mention, you must commit changed submodule objects. dtmland Mar 25, 2015 at 16:16 \*
- 20 Does this branch tracking also work with tags? Instead of a branch I specified a tag in my .gitmodules and after doing \$ git submodule update --init --remote TestModule I got an error saying fatal: Needed a single revision and Unable to find current origin/TestTag revision in submodule path 'TestModule'. When doing it with a real branch it works. Is there anyway to specify a tag in .gitmodules without having to specify the exact commit? Hhut Sep 4, 2015
- 9 This doesn't seem to work. I updated the hash in .gitmodules and ran git submodule update and nothing happened? CMCDragonkai Apr 4, 2016 at 14:17
- 3 Somehow this doesnt work for me. With a SHA Commit Id, I always get an error "Unable to find current revision (I double checked the revision number of HEAD and its correct). However if I use master it works. – infoclogged Jun 29, 2016 at 15:27
- 3 Entering a SHA into the branch attribute doesn't work for me either. This usage is also not supported by the does: git-scm.com/docs/gitmodules Jakub Bochenski Jun 28, 2017 at 14:44

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Note: Git 1.8.2 added the possibility to track branches. See some of the answers below.

918

It's a little confusing to get used to this, but submodules are not on a branch. They are, like you say, just a pointer to a particular commit of the submodule's repository.



This means, when someone else checks out your repository, or pulls your code, and does git submodule update, the submodule is checked out to that particular commit.

This is great for a submodule that does not change often, because then everyone on the project can have the submodule at the same commit.

If you want to move the submodule to a particular tag:

```
cd submodule_directory
git checkout v1.0
cd ..
git add submodule_directory
git commit -m "moved submodule to v1.0"
git push
```

Then, another developer who wants to have submodule\_directory changed to that tag, does this

```
git pull
git submodule update --init
```

git pull changes which commit their submodule directory points to. git submodule update actually merges in the new code.

Share Follow

edited Jul 2, 2019 at 21:43

Julius Smith



- 13 That's a very good explanation, thanks! And of course, after reading your answer, I realized the commit is saved inside the submodule itself (submodule/.git/HEAD). Ivan Nov 22, 2009 at 18:19
- 6 This doesn't seem to work on git 1.7.4.4. cd my\_submodule; git checkout [ref in submodule's repository yields fatal: reference is not a tree: .... It's as if git will only operate on the parent repository. James A. Rosen May 4, 2012 at 21:12
- 4 It's good to use git submodules even for projects that are updated often. The linux kernel uses it and it isn't so bad – user9903 Apr 30, 2013 at 18:15
- 15 Is git checkout v1.0 a branch or a tag? Bernhard Döbler Oct 1, 2015 at 22:30
- 13 Consider a tag a human readable alias to a commit. And a commit is a set of specific state for each file. A branch is essentially the same thing except you can make changes to it. deadbabykitten Feb 2, 2016 at 0:13

Show 6 more comments



(Git 2.22, Q2 2019, has introduced git submodule set-branch --branch aBranch --

457

Note that **if you have an** *existing* **submodule which** *isn't* **tracking a branch yet**, then (<u>if you have git 1.8.2+</u>):

Make sure the parent repo knows that its submodule now tracks a branch:

Mow to do graphic design work for free?

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Make sure your submodule is actually at the latest of that branch:

```
cd path/to/your/submodule
git checkout -b branch --track origin/branch
  # if the master branch already exist:
  git branch -u origin/master master
```

(with 'origin' being the name of the upstream remote repo the submodule has been cloned from.

A git remote -v inside that submodule will display it. Usually, it is 'origin')

• Don't forget to record the new state of your submodule in your parent repo:

```
cd /path/to/your/parent/repo
git add path/to/your/submodule
git commit -m "Make submodule tracking a branch"
```

Subsequent update for that submodule will have to use the --remote option:

```
# update vour submodule
# --remote will also fetch and ensure that
# the latest commit from the branch is used
git submodule update --remote
# to avoid fetching use
git submodule update --remote --no-fetch
```

Note that with Git 2.10+ (Q3 2016), you can use '. ' as a branch name:

The name of the branch is recorded as submodule.<name>.branch in .gitmodules for

A special value of . is used to indicate that the name of the branch in the submodule should be the same name as the current branch in the current repository.

But, as commented by LubosD

```
With git checkout, if the branch name to follow is ". ", it will kill your uncommitted work!
Use git switch instead.
```

That means Git 2.23 (August 2019) or more.

See "Confused by git checkout"

If you want to update all your submodules following a branch:

```
git submodule update --recursive --remote
```

Note that the result, for each updated submodule, will almost always be a detached HEAD, as Dan Cameron note in his answer.

(Clintm notes in the comments that, if you run git submodule update -- remote and the resulting sha1 is the same as the branch the submodule is currently on, it won't do anything and leave the submodule still "on that branch" and not in detached head state.)

To ensure the branch is actually checked out (and that won't modify the SHA1 of the special entry representing the submodule for the parent repo), he suggests:

```
git submodule for
each -q --recursive 'branch="$(git\ config\ -f\ $toplevel/.gitmodules\ s
```

Each submodule will still reference the same SHA1, but if you do make new commits, you will be able to push them because they will be referenced by the branch you want the submodule to track. After that push within a submodule, don't forget to go back to the parent repo, add, commit and push the new SHA1 for those modified submodules.

Note the use of \$toplevel, recommended in the comments by Alexander Pogrebnyak. \$toplevel was introduced in git1.7.2 in May 2010: commit f030c96.

it contains the absolute path of the top level directory (where .gitmodules is).

dtmland adds in the comments:

The foreach script will fail to checkout submodules that are not following a branch. However, this command gives you both:

```
git submodule foreach -q --recursive 'branch="$(git config -f $toplevel/.gitmodules
```

```
git submodule for
each -q --recursive \
     'branch="$(git config -f $toplevel/.gitmodules submodule.$name.branch)"; \
     [ "$branch" = "" ] && \
     git checkout master || git switch $branch' -
```

umläute refines dtmland's command with a simplified version in the comments:

```
git submodule foreach -q --recursive 'git switch $(git config -f $toplevel/.gitmodule
```

multiple lines:

```
git submodule foreach -q --recursive \
 $(git config -f $toplevel/.gitmodules submodule.$name.branch || echo master)'
```

Before Git 2.26 (Q1 2020), a fetch that is told to recursively fetch updates in submodules inevitably produces reams of output, and it becomes hard to spot error messages.

The command has been taught to enumerate submodules that had errors at the end of the

See commit 0222540 (16 Jan 2020) by Emily Shaffer (nasamuffin). (Merged by Junio C Ham gitster -- in commit b5c71cc, 05 Feb 2020)

## fetch: emphasize failure during submodule fetch

Signed-off-by: Emily Shaffer

In cases when a submodule fetch fails when there are many submodules, the error from  $\,$ the lone failing submodule fetch is buried under activity on the other submodules if more than one fetch fell back on fetch-by-oid

Call out a failure late so the user is aware that something went wrong, and where.

Because fetch\_finish() is only called synchronously by run\_processes\_parallel, mutexing is not required around submodules\_with\_errors.

Note that, with Git 2.28 (Q3 2020), Rewrite of parts of the scripted "git submodule" Porcelain command continues; this time it is " git submodule set-branch " subcommand's turn.

See commit 2964d6e (02 Jun 2020) by Shourya Shukla (periperidip). (Merged by Junio C Hamano -- gitster -- in commit 1046282, 25 Jun 2020)

# submodule: port subcommand 'set-branch' from shell to C

Mentored-by: Christian Couder Mentored-by: Kaartic Siyaraam Helped-by: Denton Liu Helped-by: Eric Sunshine Helped-by: Đoàn Trần Công Danh Signed-off-by: Shourva Shukla

Convert submodule subcommand 'set-branch' to a builtin and call it via git submodule.sh

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edited Jun 28, 2020 at 2:16

answered Sep 14, 2013 at 6:59



VonC **1.2m** • 505 • 4232 • 5040

- 2 Question: if i have folder subModule1 and wish to track master branch, would the resulting command look like this: git config -f .gitmodules submodule.subModule1.branch master - BraveNewMath Sep 17, 2013
- 1 The foreach script will not depend on the hardcoded <path> , if you substitute <path> with \$toplevel/ . - Alexander Pogrebnyak Nov 27, 2013 at 18:19
- The foreach script will fail to checkout submodules that are not following a branch, However, this command gives you both: git submodule foreach -q --recursive 'branch="\$(git config -f \$toplevel/.gitmodules submodule.\$name.branch)"; [ "\$branch" = "" ] && git checkout master || git checkout \$branch' - dtmland Jul 10, 2015 at 19:09
- 2 here's a simplified version of @dtmland's script: git submodule foreach -q --recursive 'git checkout \$(git config -f \$toplevel/.gitmodules submodule.\$name.branch || echo
- Ohh! Actually the foreach script is unnecessary. We have to execute the submodule update with the --merge

### Show 19 more comments



Git 1.8.2 added the possibility to track branches.

303

# add submodule to track branch\_name branch
git submodule add -b branch\_name URL\_to\_Git\_repo optional\_directory\_rename

9

# update your submodule git submodule update --remote

See also Git submodules

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edited Dec 5, 2020 at 1:19

answered Apr 3, 2013 at 8:44



**>- 2,187** • 15 • 30



11 Does this apply to tags as well? – ThorSummoner Jul 2, 2014 at 21:28

- How does adding submodule in such way reflect on  $\ .gitmodules \ \ file?$  Eugene Jul 20, 2014 at 12:22  $\ \nearrow$
- Thanks I just used the info about to help me to create a submodule folder that is synced with a GitHub ghpages website: full example at github.com/o2platform/fluentnode/issues/22 - Dinis Cruz Dec 24, 2014 at
- 14 You can lock to a tag with git submodule add -b tags/<sometag> <url> which you can see as the line branch = tags/<sometag> in .gitmodules - KCD Oct 16, 2015 at 2:27
- 15 @KCD Which version of git can do that with tags. Mine doesn't work? CMCDragonkai Apr 4, 2016 at 13:56



An example of how I use Git submodules.

75

- 1. Create a new repository
- 2. Then clone another repository as a submodule
- 3. Then we have that submodule use a tag called V3.1.2 П
- 4. And then we commit.

And that looks a little bit like this:

```
git init
vi README
git add README
git commit
git submodule add git://github.com/XXXXX/xxx.yyyy.git stm32_std_lib
git submodule init
git submodule update
cd stm32_std_lib/
git reset --hard V3.1.2
git commit -a
git submodule status
```

Maybe it helps (even though I use a tag and not a branch)?

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edited Dec 30, 2018 at 10:43 Peter Mortensen 30.8k • 21 • 104 • 125 answered Nov 22, 2009 at 9:53 Johan **19.7k** • 28 • 92 • 110

- 5 It's basically the same answer as djacobs7, but thanks anyway :) Ivan Nov 22, 2009 at 18:22
- Should you be able to commit a change after your git reset --hard V3.1.2 ? I just get a "nothing to commit" with a git status of the parent directory. - Nick Radford Oct 10, 2012 at 20:0
- @Ivan: Could you explain how this is the same as djacobs7's response? As far as I see, his response doesn't even include the 'submodule add' command, instead the repo is added directly, without any link to the module's original git repo. At least when I tried this approach there was no link in .gitmodules. - Michel Müller Aug 12, 2013 at 8:14

djacobs7's response doesn't include the whole explanation starting from adding the submodule. He assumes

doesn't it just add the entire submodule contents as tracked objects to your main repo? - Sergey Grechin Apr 30, 2020 at 7:58

Add a comment



In my experience switching branches in the superproject or future checkouts will still cause detached HEADs of submodules regardless if the submodule is properly added and tracked (i.e. @djacobs7 and @Johnny Z answers).



And instead of manually checking out the correct branch manually or through a script git submodule foreach can be used



Log in

git submodule foreach -q --recursive oranch="\${git config -f \$toplevel.gitmodules} submodule.\$name.branch)"; git checkout \$branch'

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answered Nov 9, 2013 at 4:54 Dan Cameron **756** • 6 • 8

Nice. +1. I have included your command in my answer. - VonC Nov 9, 2013 at 8:17



Git submodules are a little bit strange - they're always in "detached head" mode - they don't update to the latest commit on a branch like you might expect.





This does make some sense when you think about it, though. Let's say I create repository foo with submodule bar. I push my changes and tell you to check out commit a7402be from repository foo.



Then imagine that someone commits a change to repository bar before you can make your clone.



When you check out commit a 7402 be from repository  $\emph{foo}$ , you expect to get the same code I pushed. That's why submodules don't update until you tell them to explicitly and then make a new commit.

Personally I think submodules are the most confusing part of Git. There are lots of places that can explain submodules better than I can. I recommend Pro Git by Scott Chacon.



answered Nov 22, 2009 at 5:22



I think it's time I start reading some git books, thanks for the recommendation. — Ivan Nov 22, 2009 at 18:21

Sorry, but you didn't clarify if one would get the same as you pushed to a7402be, or get the latest of bar, though your version of foo. Thanks:) - mjs Dec 1, 2011 at 12:44

The issue is that there should be an option to say "keep this submodule on branch X" so that if you WANT it to automatically update itself then you can make that happen. It would make submodules much more useful for managing e.g. a WordPress installation where plugins are all Git repos without having to re-save the superproject for every plugin that updates. - jerclarke Oct 25, 2012 at 18:23

@jeremyclark git clone git://github.com/git/git.git and push that feature...? = D - Alastair Nov 7, 2012 at 4:01

@0xC0000022L That is because getting the finger from git 10000000 times a day is still preferrable to the beastiality other versioning tools deem sensible. - user1129682 Sep 2, 2019 at 10:55



Existing answers have the second step missing and overloaded with details.

To switch an existing submodule to track a new remote url and/or a new branch: 40



1. Edit the source of truth in .gitmodules



For example, from



```
[submodule "api"]
   url = https://github.com/<original_repo>/api.git
```

```
[submodule "api"]
    path = api
url = https://github.com/<another_repo>/api.git
    branch = work-in-progress
```

You can also use hexsha for a commit hash. Or tag, but see 3.

- 2. git submodule sync: Updates the description of submodules cached by git in .git/modules from the just-edited source of truth specified in .gitmodules .
- 3. Only if you specify a tag: git submodule foreach --recursive 'git fetch --tags' to fetch tags.
- 4. git submodule update --init --recursive --remote: Updates the checked-out submodules in the working copy.
- 5. Commit the changes.

Share Follow

edited Sep 26, 2022 at 20:21

answered Feb 8, 2022 at 0:15



2 Thanks for clear solution. – hobbydey Mar 7, 2022 at 4:59

25

V

• cd to root of your repository containing the submodules

• Open .gitmodules for editing П

• Add line below path = ... and url = ... that says branch = your-branch, for each submodule: save file .gitmodules.

• then without changing directory do \$ git submodule update --remote

...this should pull in the latest commits on the specified branch, for each submodule thus modified.

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edited Oct 19, 2018 at 20:14 Peter Mortensen 30.8k • 21 • 104 • 125 answered Jun 12, 2016 at 13:34 Engineer 8,303 • 7 • 63 • 101

[alias]



I have this in my .gitconfig file. It is still a draft, but proved useful as of now. It helps me to

16 

П

always reattach the submodules to their branch.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* # Submodules aliases # git sm-trackbranch: places all submodules on their respective branch specified in This works if submodules are configured to track a branch, i.e if .gitmodules looks # [submodule "my-submodule"]
# path = my-submodule url = git@wherever.you.like/my-submodule.git branch = my-branch sm-trackbranch = "! git submodule foreach -q --recursive 'branch=\"\$(git config -f \$t # sm-pullrebase: # - pull --rebase on the master repo # - sm-trackbranch on every submodule # - pull --rebase on each submodule # Important note: # - have a clean master repo and subrepos before doing this! # - this is \*not\* equivalent to getting the last committed
# master repo + its submodules: if some submodules are tracking branches that have evolved since the last commit in the master repo, they will be using those more recent commits! "
# (Note: On the contrary, git submodule update will stick
# to the last committed SHA1 in the master repo)
sm-pullrebase = "! git pull --rebase; git submodule update; git sm-trackbranch; git # git sm-diff will diff the master repo \*and\* its submodules sm-diff = "! git diff && git submodule foreach 'git diff'

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edited Sep 24, 2021 at 8:36 Lucas

answered Apr 1, 2015 at 16:27 Pascal T.

**3,776** • 4 • 33 • 35

490 • 2 • 12 • 16



We use Quack to pull a specific module from another Git repository. We need to pull code without the whole code base of the provided repository - we need a very specific module / file from that huge repository and should be updated every time we run update.



So we achieved it in this way:

# Create configuration

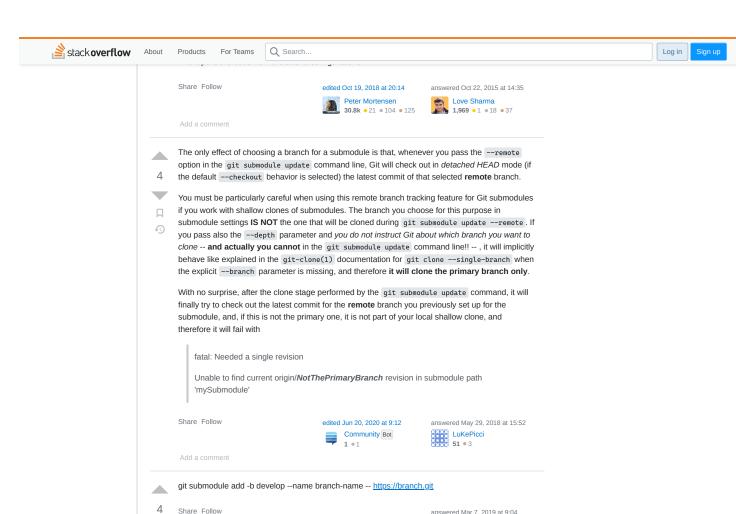
9

```
name: Project Name
  local/path:
    repository: https://github.com/<username>/<repo>.git
     path: repo/path
     branch: dev
  other/local/path/filename.txt:
    repository: https://github.com/<username>/<repo>.githexsha: 9e3e9642cfea36f4ae216d27df100134920143b9
    path: repo/path/filename.txt
profiles:
  init:
    tasks: ['modules']
```

With the above configuration, it creates one directory from the provided GitHub repository as specified in first module configuration, and the other one is to pull and create a file from the given repository.

Other developers just need to run

\$ guack



No need to downvote. Actually, there's some reasoning behind this. This actually worked for me on Windows with GiBash for something like this: git submodule add -b master --name master -- https://github.com/nlohmann/json.git libs/json | Cheers for the tip! - anatoli Jun 11, 2020 at 13:28 /\*

I did it in the config file, did not find the corresponding command, thanks! - Mat M May 29, 2022 at 20:23

> git clone -b master --single-branch --recurse-submodules git@github.com:orgname/pro
or
> git clone -b stage --single-branch --recurse-submodules git@github.com:orgname/proi

git submodule add -b stage git@github.optum.com:orgname/\${reponame}.git

> git submodule update --remote (only for remote branch -ie master)

> git submodule update --init --recursive (for remaining branchs)
if you get fatal need single revision error then use below commands:-

git symbolic-ref refs/remotes/origin/HEAD refs/remotes/origin/{branch name} ex:- git symbolic-ref refs/remotes/origin/HEAD refs/remotes/origin/stage

-1

 Use the below commands

######Clone#######

######Update######

\*\*\* stage remotes/origin/stage\*\*

before:-

after:-

git branch -a

To add submodule (branch-branch)

Update Submodule (branch-branch)

> git submodule update --recursive --remote

Passiondroid

1.555 • 1 • 16 • 28

