

<https://andrey.nering.com.br/2016/git-submodules-vs-subtrees/>

submodules

Submodule is only a link to commit ref in another repo.

Add

Adding submodule:

```
git submodule add <repository> [<relative_local_path>]
```

Init

After cloning master repo with submodules:

```
git submodule init  
git submodule update
```

alternatively repo can be cloned with

```
git clone --recursive <url>
```

```
git submodule update --init --recursive  
git fetch --recurse-submodules
```

Remove

Removing submodule:

- **git submodule deinit lib/lib_to_be_deleted**
- remove entry in .gitmodules
- stage .gitmodules
- ? remove entry in .git/config
- remove dir: `git rm --cached lib/lib_to_be_deleted`
- remove module content: `rm -rf .git/modules/lib_to_be_deleted`

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