

Git folder within Git Folder–Git Subtree Project and Draft

Go back to [fan's Miscellaneous Repository](#).

Git subtree

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Issue

- There is a main folder, which is a git folder (code etc folder), shared in dropbox
- There is a remote repository (paper draft).
- Pull remote paper draft into git folder for whole project so remote repo for draft folder looks like a regular folder in dropbox in the shared master git repo folder with co-authors.

Solution

How to sync both folders properly? Traditional option is submodule, do not use that, use **subtree**, which is a standard feature for git since *v1.7.11*.

Create subtree in existing repository

1. There is some git repository: “*C:/Users/fan/Documents/Dropbox (UH-ECON)/Project Emily Minority Survey/*”
 - make sure the repository does has been synced, no uncommitted changes
2. Add remote git url for draft folder
 - `git remote add github_draft git@github.com:FanWangEcon/ChinaSchoolClosure.git`
3. Suppose folder *Drafts_RR* is not in the repository yet, create subtree under that
 - `git subtree add -prefix=Drafts_RR/ github_draft master`: pull from master branch of remote repo `github_draft` defined in step 2, add remote repo files to *Drafts_RR* folder
4. now updates in `github_draft` repo are synced inside the `github` repo. but `github_draft` remains independently syncable with overleaf. So overleaf does not have to be synced to much larger non-tex folder.

Sync Subtree Changes with Folder and Sub folder.

1. make some changes in subfolder
2. sync with the `github` repo first, commit changes in the master folder first.
3. sync with subtree subfolder
 - `cd "C:/Users/fan/Documents/Dropbox (UH-ECON)/Project Emily Minority Survey/"`
 - `git subtree push -prefix=Drafts_RR github_draft master`

Commands Together

```
# Project git folder in dropbox
cd "C:/Users/fan/Documents/Dropbox (UH-ECON)/Project Emily Minority Survey/Drafts_RR"

# Add new paper draft remote url to project git remote urls
# github main is project repo url, github_draft is overleaf synced folder
git remote -v
git remote add github_draft git@github.com:FanWangEcon/ChinaSchoolClosure.git
git remote -v

# Add subtree, Drafts_RR should not exist yet
git subtree add --prefix=Drafts_RR github_draft

git subtree add --prefix "C:/Users/fan/Documents/Dropbox (UH-ECON)/Project Emily Minority Survey/Drafts_RR"
git subtree split --prefix=Drafts_RR/ -b ChinaSchoolClosure
Do not use submodule
```

Console outputs

```
$ git subtree add --prefix=Drafts_RR/ github_draft master
git fetch github_draft master
Enter passphrase for key '/c/Users/fan/.ssh/id_rsa':
warning: no common commits
remote: Enumerating objects: 235, done.
remote: Counting objects: 100% (235/235), done.
remote: Compressing objects: 100% (177/177), done.
remote: Total 235 (delta 110), reused 133 (delta 50), pack-reused 0
Receiving objects: 100% (235/235), 3.02 MiB | 3.58 MiB/s, done.
Resolving deltas: 100% (110/110), done.
From github.com:FanWangEcon/ChinaSchoolClosure
 * branch           master      -> FETCH_HEAD
 * [new branch]     master      -> github_draft/master
Added dir 'Drafts_RR'
fan@LAPTOP-55QHS6DU MINGW64 ~/Documents/Dropbox (UH-ECON)/Project Emily Minority Survey (master)
$ ls
Code/          Drafts/          Images/          notes.md          'Possible Qu
CodeEdccRR/    Drafts_RR/        Log/            onenote1.pdf       presentation
comments/      'eth disparities irb'/  'Model Variables Graph Factory'/
Data/          Feedback/        'Notes and drafts, language'/
desktop.ini    'Government Documents'/'  'Notes and Papers'/
                                                               Planning.xmind   'R&R comments
                                                               README.md        'Reference p
fan@LAPTOP-55QHS6DU MINGW64 ~/Documents/Dropbox (UH-ECON)/Project Emily Minority Survey (master)
$ ls Drafts_RR
_bib/ _fig/ _tab/ draft_main.pdf  draft_main.tex  fragments/ preamble_main.tex  sections/
```

Links

- [Git Tools - Submodules](#)

- Working with submodules
- 4 Git Submodules Alternatives You Should Know
- Git subtree: the alternative to Git submodule
 - instructions came from here
- What is Git subtree?
- git subtrees: a tutorial