

git submodule

一、有子模块的仓库 clone

方法一

```
1 git clone --recursive ssh://git@git.citycloud.com.cn:3022/hufei/adminBase.git
```

方法二

```
1 git clone ssh://git@git.citycloud.com.cn:3022/hufei/adminBase.git
2 git submodule init
3 git submoudle update
```

二、为项目增加一个子模块

```
1 # clone git 仓库 (本地已存在 adminBase 文件夹 另命名为 tt)
2 $ git clone ssh://git@git.citycloud.com.cn:3022/hufei/adminBase.git tt
3 Cloning into 'tt'...
4 remote: Counting objects: 13528, done.
5 remote: Compressing objects: 100% (8038/8038), done.
6 remote: Total 13528 (delta 8000), reused 8308 (delta 5012)
7 Receiving objects: 100% (13528/13528), 2.45 MiB | 3.47 MiB/s, done.
8 Resolving deltas: 100% (8000/8000), done.
9
10 # vscode 打开 tt 目录
11 $ code tt/
12
13 # 进入 tt 目录
14 $ cd tt
15
16 # 查看 当前目录
17 $ ls
18 README.md    build          env             package.json    src             test            yarn.lock
19 ansible       docs           mock            public          ssl             vue.config.js
20
21 # 查看 git submoudle 命令帮助信息
22
23 $ git submodule -h
24 usage: git submodule [--quiet] add [-b <branch>] [-f|--force] [--name <name>] [--reference
    <repository>] [--] <repository> [<path>]
25     or: git submodule [--quiet] status [--cached] [--recursive] [--] [<path>...]
26     or: git submodule [--quiet] init [--] [<path>...]
27     or: git submodule [--quiet] deinit [-f|--force] (--all| [--] <path>...)
28     or: git submodule [--quiet] update [--init] [--remote] [-N|--no-fetch] [-f|--force] [--
    checkout|--merge|--rebase] [--[no-]recommend-shallow] [--reference <repository>] [--
    recursive] [--] [<path>...]
29     or: git submodule [--quiet] summary [--cached|--files] [--summary-limit <n>] [commit] [--
    ] [<path>...]
30     or: git submodule [--quiet] foreach [--recursive] <command>
```

```

31 or: git submodule [--quiet] sync [--recursive] [--] [<path>...]
32 or: git submodule [--quiet] absorbgitdirs [--] [<path>...]
33
34
35
36
37 # 为项目增加一个子模块到 src/cui-components 目录, 增加 submodule 时可以通过 -b 来指定分支
38
39 $ git submodule add ssh://git@git.citycloud.com.cn:3022/hufei/cui-components.git src/cui-
    components -b master
40
41 Cloning into '/private/tmp/tt/src/cui-components'...
42 remote: Counting objects: 169, done.
43 remote: Compressing objects: 100% (132/132), done.
44 remote: Total 169 (delta 24), reused 127 (delta 11)
45 Receiving objects: 100% (169/169), 76.40 KiB | 2.39 MiB/s, done.
46 Resolving deltas: 100% (24/24), done.
47
48 # 查看是否有增加的目录
49 $ ls src/
50 App.vue      assets      cui-components  layout      mixins      router      styles
    views
51 api          components  icons          main.js     permission.js  store      utils
52
53 # 进入到 子模块目录
54
55 $ cd src/cui-components/
56
57 # 拉取最新代码
58 $ git submodule init
59 $ git submodule update
60
61

```

三、切换 submodule 使用的分支

```

1 # 到 项目根目录
2 $ cd ..
3 $ cd ..
4
5 # 查看.gitmodules 当前的配置
6 $ cat .gitmodules
7 [submodule "src/cui-components"]
8     path = src/cui-components
9     url = ssh://git@git.citycloud.com.cn:3022/hufei/cui-components.git
10
11 # 设置 submodule 要使用的分支 如果不加 -f 只是本地临时切换, 不会提交分支记录到主分支
12 $ git config -f .gitmodules submodule.src/cui-components.branch v1.0.0
13
14 # 查看.gitmodules 当前的配置, 多了 branch 字段
15 $ cat .gitmodules
16 [submodule "src/cui-components"]
17     path = src/cui-components
18     url = ssh://git@git.citycloud.com.cn:3022/hufei/cui-components.git
19     branch = v1.0.0
20

```

```
21 # 到 submodule 目录
22 $ cd src/cui-components/
23 # 查看 git 分支
24 $ git branch
25 * master
26 # 切换 git 分支
27 $ git checkout v1.0.0
28 Branch 'v1.0.0' set up to track remote branch 'v1.0.0' from 'origin'.
29 Switched to a new branch 'v1.0.0'
30 # 同步远程分支
31 $ git submodule update --remote --merge
32 # 查看 git 分支 , 已切换到 新分支
33 $ git branch
34     master
35 * v1.0.0
```