

1 . How you configure your git if you want to use a globally suitable account
git configuration:

```
git config --global user.name username  
git config --global email emailaddress
```

2 . Wanna check the configuration?

```
git config --list
```

3 . What if you want initialize a repository locally from a non-empty folder?

```
git init
```

4 . Extra tip:

- 1) Don't put repo in another repo;
- 2) git only worry about file, not empty directories

5 . How to tell diff after git add:

```
git diff --staged
```

6 . Ignore files that you don't wanna commit

Just use .gitingore and commit it. This is useful when only a few of all files are necessary to recreate the project, such as building a c++ projecting with only source files and Makefile (or CMakeLists.txt). You sort of like to ignore intermediate files.

7 . Show diff to a specific commit

```
git diff HEAD~n (filename)  
git diff HEAD~1=git diff
```

Comments: so, the most accurate way is to use hash codes instead of HEAD. I personally usually get confused by HEAD especially when I use *git reset* with it

8 . Show diff to a specific commit using hash

Look for the hash number of that commit using *git log*, and

```
git diff hash (filename)
```

This will actually give the difference between the version the hash points to and the *HEAD* or current version.
To show diff between two commits:

```
git diff hash1 hash2
```

Look up git commit –amend