**A. Update from the remote repo to the local master.**

Method 1 (easy)

1. git clone <remote\_location> <clone name>: create a local copy

of a remote.

2. git remote -v: to list a git project's remote (fetch & push).

3. git fetch: fetch work from the remote into the local branch

(just update changes and can see the change in git diff).

4. git diff: to see changes from fetch

5. resolve conflict in git diff before pull

6. git pull origin master: same as fetch but it could change files in your current branch

(and potentially lose your changes, etc).

Method 2 (common)

1. git clone <remote\_location> <clone name>: create a local copy

of a remote.

2. git remote -v: to list a git project's remote (fetch & push).

3. git fetch: fetch work from the remote into the local branch

(just update changes and can see the change in git diff).

4. git merge origin master: Merge remote origin(master\_branch) into the local branch

(update commit in local to head commit in origin(master).

**B. Create new branch to work on a new feature.**

1. git branch <brachname>: create a new branch.

2. git branch: list branch in the repo.

3. git checkout <branchname>: switch to another branch.

4. git add <filename>: add file to the staging area.

5. git commit -m "some messages": commit the work to the branch.

**C. Update from the remote repo to the new local branch (in case new commits were made while we were working).**

1. git fetch

2. git merge origin master

3. Resolve merge confilct flow (D)

**D. Resolve merge confilct.**

1. edit in files

2. git add files

3. git commit -m "Resolve merge conflict"

**E. Push our new branch up to the remote (origin) for review.**

1. git push origin <branch\_name>: push the branch up to the remote.

(origin will have 2 branch: master, new\_branch)

**F. Merge the new branch (origin/new\_branch) into the master (origin/master).**

1. git checkout master

2. git merge new\_branch.

3. Resolve merge confilct flow (D)

**Remark: "origin/master" vs "origin master"**

1. "origin/master" on local branch

2. "origin master" on remote branch