Git

Aashish Welling
Version Control!
aashish@SLATE-ubuntu: ~ pwd
/home/aashish
aashish@SLATE-ubuntu: ~
aashish@SLATE-ubuntu:~ /myapp

```
aashish@SLATE-ubuntu ~ $ pwd
/home/aashish

aashish@SLATE-ubuntu ~ $ mkdir myapp

aashish@SLATE-ubuntu ~ $ cd myapp

aashish@SLATE-ubuntu ~/myapp $ pwd
/home/aashish/myapp

aashish@SLATE-ubuntu ~ $ /myapp

```
aashish@SLATE-ubuntu: ~/myapp
aashish@SLATE-ubuntu  ~/myapp  touch  myfile.js
aashish@SLATE-ubuntu: ~/myapp
aashish@SLATE-ubuntu: ~/myapp
aashish@SLATE-ubuntu: ~/myapp
myfile.js
aashish@SLATE-ubuntu: ~/myapp

touch myfile.js
ls
touch myfile.js
ls
mv myfile.js abc
ls
cp abc xyz
ls
touch myfile.js
ls
mv myfile.js abc
ls
cp abc xyz
ls
rm abc xyz
ls
aashish@SLATE-ubuntu: ~
/home/aashish/myapp

aashish@SLATE-ubuntu ~/myapp
/home/aashish/myapp

aashish@SLATE-ubuntu ~
pwd

/home/aashish

aashish@SLATE-ubuntu ~

/home/aashish

aashish@SLATE-ubuntu ~

/home/aashish
aashish@SLATE-ubuntu: ~ /myapp
/home/aashish/myapp
aashish@SLATE-ubuntu ~/myapp cd ..
aashish@SLATE-ubuntu ~ pwd
/home/aashish
aashish@SLATE-ubuntu ~ rmdir myapp
aashish@SLATE-ubuntu ~ cd myapp
cd: no such file or directory: myapp
X aashish@SLATE-ubuntu ~
Recap

pwd
ls
cd <directory>
mkdir <directory>
rm <file>
rmdir <directory>
mv <source> <destination>

echo %cd%
dir
cd <directory>
mkdir <directory>
del <file>
rmdir <directory>
move <source> <dest>
copy <source> <dest>
git
mkdir myapp

cd myapp

touch myfile.js
aashish@SLATE-ubuntu: ~/myapp
mkdir myapp
cd myapp
touch myfile.js
git init
Initialized empty Git repository in /home/aashish/myapp

Initialized empty Git repository in /home/aashish/myapp

aashish@SLATE-ubuntu: ~/myapp

~/myapp master
```
aashish@SLATE-ubuntu:~ myapp
  mkdir myapp
  cd myapp
  touch myfile.js
  git init

Initialized empty Git repository in /home/aashish/myapp/.git/

aashish@SLATE-ubuntu:~/myapp master ls
myfile.js

aashish@SLATE-ubuntu:~/myapp master ls -a
  ..  .git  myfile.js

aashish@SLATE-ubuntu:~/myapp master
```
On branch master

Initial commit

Untracked files:
(use "git add <file>..." to include in what will be committed)

    myfile.js

nothing added to commit but untracked files present (use "git add" to track)
nothing added to commit but untracked files present (use "git add" to track)

On branch master

Initial commit

Changes to be committed:
(use "git rm --cached <file>..." to unstage)

new file:  myfile.js
Initial commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 myfile.js

On branch master
nothing to commit, working directory clean
Create a new repository

A repository contains all the files for your project, including the revision history.

Owner

Repository name

@omegablitz / myapp

Great repository names are short and memorable. Need inspiration? How about legendary-octo-lamp.

Description (optional)

A sample app using git

Public

Anyone can see this repository. You choose who can commit.

Private

You choose who can see and commit to this repository.

Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you’re importing an existing repository.

Create repository
Quick setup — if you've done this kind of thing before

or HTTPS SSH git@github.com:omegablitz/myapp.git

We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line

```bash
  echo "# myapp" >> README.md
  git init
  git add README.md
  git commit -m "first commit"
  git remote add origin git@github.com:omegablitz/myapp.git
  git push -u origin master
```

...or push an existing repository from the command line

```bash
  git remote add origin git@github.com:omegablitz/myapp.git
  git push -u origin master
```

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code
```bash
aashish@SLATE-ubuntu: ~/myapp

```
```
master
```

```bash
git remote add origin git@github.com:omegablitz/myapp.git
git push -u origin master
```

Counting objects: 3, done.
Writing objects: 100% (3/3), 217 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To git@github.com:omegablitz/myapp.git
  * [new branch] master -> master
Branch master set up to track remote branch master from origin.

```bash
aashish@SLATE-ubuntu: ~/myapp

```
```
master
```

```bash
```
```
master
```
A sample app using git

1 commit  1 branch  0 releases  1 contributor

Branch: master  New pull request

omegablitz Initial commit Latest commit eee349e 7 minutes ago

myfile.js Initial commit 7 minutes ago

Add a README with an overview of your project.

Add a README
console.log('i hav no idea what im doing :(')
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   myfile.js

no changes added to commit (use "git add" and/or "git commit -a")
aashish@SLATE-ubuntu:~:/myapp

```
~/myapp $ git add --all
~/myapp $ master

[master 6de4442] useless commit
1 file changed, 1 insertion(+)
```

```
~/myapp $ git commit -m 'useless commit'
```

```
~/myapp $ git push
```

To git@github.com:omegablitz/myapp.git

! [rejected] master -> master (fetch first)
error: failed to push some refs to 'git@github.com:omegablitz/myapp.git'

hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

X aashish@SLATE-ubuntu:~:/myapp $
A sample app using git

2 commits
1 branch
0 releases
1 contributor

Branch: master
New pull request

omegablitiz committed on GitHub Update myfile.js

Latest commit 02e158d 2 minutes ago

myfile.js Update myfile.js

2 minutes ago

Add a README with an overview of your project.

Add a README
aashish@SLATE-ubuntu:~/myapp $ master$ git pull
remote: Counting objects: 3, done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From github.com:omegablitz/myapp
  eee349e..02e158d  master -> origin/master
Auto-merging myfile.js
CONFLICT (content): Merge conflict in myfile.js
Automatic merge failed; fix conflicts and then commit the result.
X aashish@SLATE-ubuntu:~/myapp $ master $ git pull
1 <<<<<< HEAD
2 console.log('i hav no idea what im doing :(');
3 ========
4 console.log("Robert"); DROP TABLE students;--");
5 >>>>>>> 02e158d433d1a767739e2c327f8b013fcd3f7025
```javascript
console.log("Robert"); DROP TABLE students;--
```
On branch master
Your branch and 'origin/master' have diverged,
and have 1 and 1 different commit each, respectively.
(use "git pull" to merge the remote branch into yours)
You have unmerged paths.
(fix conflicts and run "git commit")

Unmerged paths:
(use "git add <file>..." to mark resolution)

both modified: myfile.js

no changes added to commit (use "git add" and/or "git commit -a")
Counting objects: 4, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 462 bytes | 0 bytes/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To git@github.com:omegablitz/myapp.git
  02e158d..b8f97c5  master -> master
A sample app using git

4 commits  1 branch  0 releases  1 contributor

Branch: master  New pull request

@meganblitz Merged

Latest commit b8f97c5 a minute ago
myfile.js Update myfile.js

Add a README with an overview of your project.
Web Essentials: HTML + CSS