Git Tutorial

24 June 2018   17:50

```
krishna@Geetha-PC MINGW64 /f
$ pwd
/f

krishna@Geetha-PC MINGW64 /f
$ mkdir -p repos/example

krishna@Geetha-PC MINGW64 /f
$ cd repos/example

krishna@Geetha-PC MINGW64 /f/repos/example
$ git init
Initialized empty Git repository in F:/repos/example/.git/

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$
krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ ls -altr
total 4
drwxr-xr-x 1 krishna 197609 0 Jun 24 17:47 ../
drwxr-xr-x 1 krishna 197609 0 Jun 24 17:48 ./
drwxr-xr-x 1 krishna 197609 0 Jun 24 17:48 .git/

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ touch index.html

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ ls -ltr
total 0
-rw-r--r-- 1 krishna 197609 0 Jun 24 17:53 index.html

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ git status
On branch master

Initial commit

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

        index.html

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

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ git add  -A
[-A option tells Git to add all untracked files, even though in this case
there's only one.]
$ git status
On branch master

Initial commit

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

        new file:   index.html
```

Git Tutorial-II

24 June 2018   18:01

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ `git commit -m "Initialize repository"`
[master (root-commit) 899f377] Initialize repository
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html
krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ `git log`
commit 899f3775b5712998e755b49cc8d6f45771f8713b
Author: krishnamohan-seelam <krishnamohan.seelam@outlook.com>
Date: Sun Jun 24 18:05:50 2018 +0530

    Initialize repository
krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ echo "hello, world" > index.html

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ `git diff`
diff --git a/index.html b/index.html
index e69de29..4b5fa63 100644
--- a/index.html
+++ b/index.html
@@ -0,0 +1 @@
+hello, world
warning: LF will be replaced by CRLF in index.html.

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ `git commit -a -m "Add content to index.html"`
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory.
[master 7756a60] Add content to index.html
 1 file changed, 1 insertion(+)

[The file will have its original line endings in your working directory.
Note that the -a option includes changes only to files already added to the
repository, so when there are new files it's important to run git add -A]

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ git log
commit 7756a60744b42907e45bda36cc7180b689ac250f
Author: krishnamohan-seelam <krishnamohan.seelam@outlook.com>
Date: Sun Jun 24 18:13:40 2018 +0530

    Add content to index.html

commit 899f3775b5712998e755b49cc8d6f45771f8713b
Author: krishnamohan-seelam <krishnamohan.seelam@outlook.com>
Date: Sun Jun 24 18:05:50 2018 +0530

    Initialize repository

Git Tutorial -III

```
krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ git diff
diff --git a/index.html b/index.html
index 4b5fa63..8e18dba 100644
--- a/index.html
+++ b/index.html
@@ -1 +1,5 @@
-hello, world
+<html>
+<body>
+<h1>hello, world</h1>
+</body>
+</html>
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory.
krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ git commit -am "Add an h1 tag"
warning: LF will be replaced by CRLF in index.html.
The file will have its original line endings in your working directory.
[master c69d005] Add an h1 tag
 1 file changed, 5 insertions(+), 1 deletion(-)
```

[Using the -am combination ,both the -a and -m options to commit all pending changes while adding a commit message]

Command	Description	Example
git help	Get help on a command	$ git help push
git config	Configure Git	$ git config --global …
source <file>	Activate Bash changes	$ source ~/.bash_profile
mkdir -p	Make intermediate directories as necessary	$ mkdir -p repos/website
git status	Show the status of the repository	$ git status
touch <name>	Create empty file	$ touch foo
git add -A	Add all files or directories to staging area	$ git add -A
git add <name>	Add given file or directory to staging area	$ git add foo
git commit -m	Commit staged changes with a message	$ git commit -m "Add thing"
git commit -am	Stage and commit changes with a message	$ git commit -am "Add thing"
git diff	Show diffs between commits, branches, etc.	$ git diff
git commit --amend	Amend the last commit	$ git commit --amend
git show <SHA>	Show diff vs. the SHA	$ git show fb738e…

Git Tutorial -IV

24 June 2018   18:18

Create repo on github with same name as local.

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ git remote add origin https://github.com/krishnamohan-seelam/example.git

krishna@Geetha-PC MINGW64 /f/repos/example (master)
$ git push -u origin master
fatal: AggregateException encountered.
   One or more errors occurred.
Username for 'https://github.com': krishnamohan-seelam
Counting objects: 9, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (9/9), 735 bytes | 0 bytes/s, done.
Total 9 (delta 0), reused 0 (delta 0)
To https://github.com/krishnamohan-seelam/example.git
 * [new branch]   master -> master
Branch master set up to track remote branch master from origin.