Git refresher

Important

Make sure that Git is installed on your machine. To verify, open a shell and type the command 'git'. If this fails, follow the necessary steps to install Git.

Goal

Explain the essential steps to interact with version control tool Git.

Information



Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

- Home of Git
- Installation of Git on Windows
- Documentation of Git

Important commands:

Command	Description
git init	Start a Git repository
git status	Check the status of the repo
git add .	Add all (changed) files to commit
git add myfile.py	Add a specific file to commit
git commit -m 'My commit message'	Commit to Git
git push origin branch	Push to Git
git pull origin branch	Pull from Git
git checkout -b my-branch	Create branch
git clone myrepo.git	Clone repository

Example

The following example shows how to clone a repository, create a new branch, add a file to it and commit it back to the respository.

Clone the repository:

```
$ git clone https://github.com/bhuwanKarki/tutorials.git
```

Navigate into the folder:

\$ cd tutorials

Check the file status:

tutorials(master) \$ git status

Create a new branch:

tutorials (master) \$ git checkout -b my-branch

Write some string to a text file:

tutorials(my-branch) \$ echo "testfile" >> testfile.txt

Add the file to the repository:

tutorials (my-branch) \$ git add testfile.txt

Check the file is added to the repo:

tutorials (my-branch) \$ git status

Commit the file to Git:

tutorials (my-branch) \$ git commit -m 'Added testfile'

Push the changes to the remote on BitBucket:

tutorials (my-branch) \$ git push

Switch to the master branch:

tutorials(my-branch) \$ git checkout master

Merge the branch we just created into master:

tutorials (master) \$ git merge my-branch

Optional Git tools

There are also tools to work with Git using a GUI. Checkout the pages for installation instructions.

SourceTree



Sourcetree simplifies how you interact with your Git repositories so you can focus on coding. Visualize and manage your repositories through Sourcetree's simple Git GUI.

Home of SourceTree

SmartGit



SmartGit is a Git client with support for GitHub Pull Requests+Comments and SVN. It runs on Mac OS X, Windows and Linux.

Home of SmartGit

Recommended site to follow

https://blog.teamtreehouse.com/git-for-designers-part-1

http://rogerdudler.github.io/git-guide/

https://wildlyinaccurate.com/a-hackers-guide-to-git/#pushing https://alvinalexander.com/git/git-cheat-sheet-git-reference-commands/