

<https://www.udemy.com/git-started-with-github/learn/v4/overview>

GitHub - Command Line CLI

Section 1

Introduction

3.Core Concepts

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Repository - defined

Repo structure

Git - 3 states - local

working directory

.git - hidden folder in working directory

Git repo - manages

Staging area - Git index

3 - states are local

GitHub - the remote repo

Master Branch - baseline

branches contain commits

4.Going Command Line

CLI -

CLI is preferred

CLI has latest features and online help

The community typically communicates in terms of the CLI

Git CLI is uniform across platforms and allows powerful options available via CLI

commands are consistent across platforms

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Section 2

Installation

6.Installing Git for Windows

git-for-windows.github.io

Section 3

Basic Git Workflow with GitHub

8.Welcome to GitHub

signup for GitHub account...

after login, click on 'Octocat'.

New repository

complete the data for the repo style guidelines

Public and Init with a readme

Main repo page

9.Setup the Project Folder

Prep the local system - use Git-bash on windows or Terminal in OSX Mac

Open terminal - user directory

projects folder location & style guide

Projects folder

10.Git Configuration (User Name and Email)

git for windows & gitbash

git version - command

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Add name & email

git config --global user. commands

Confirm updated info - git config --global --list to confirm update.

11.Copy the Repository from GitHub to Your Local Computer (git clone)

local system - CLI

Browser github.com -

clone a repo

copy https url for the online repo

CLI in terminal - git clone <url>

confirm local folder created

CLI - enter repo folder

query status of repo

working directory is 'clean' -

all work is done locally -

12.The First Commit

local CLI - Add files to local repo

cat - view contents of file

git status -

untracked file - not is staging area

git add <filename>

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git status - shows a change in queue for a commit

commit the new file - git commit -m <"commit message for file">

git status - check commit result

local repo is out of sync with github.com remote repo -

13.Publishing Changes back to GitHub (push)

Commit is a local command - how to sync local & remote repo???

check remote repo in browser

CLI in local repo folder - command: git push

remote repo is 'origin'

'master' is the branch

Check github for updates in repo

Section 4

Conclusion

15.Course Review and Conclusion

Recap -

git workflow

Section 6

Bonus: Alternative Ways to Start a Git Repository

17.Create a New Repository Locally

<http://hipsum.co/> - for content text generation

\$ git init proj-name - creates "proj-name" project in local projects folder -

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\$ git init new-proj-name

Voila - creates named project working folder with .git hidden directory

\$ ls -al -- lists ALL files - hidden .git directory

\$ cd .git -- change from working directory (project-name) to .git where 'git' repo resides

\$ ls -al - lists the files in the .git local repo

\$ git status - status of new repo

"master" branch is the baseline - status "initial commit" - "nothing to commit" - NO work files moved to repo yet -

create file in local project working folder -

\$ git status - shows new file in queue

untracked files - must be added to the .git index

\$ git add <filename> - add the untracked file to the .git index (\$ git add .) adds all untracked files -

\$ git status - reveals changes that would be committed to local repo

\$ git commit -m "commit message" - moves tracked files from index to local repo with version message -

Commit complete status message -

master (root-commit) indicates the first commit of the repo

\$ git status - located on master branch and working directory clean

New file is in .git local repo

Back to root projects folder - Remove project - \$ rm -rf proj-name - to wipe out the the local project and repo

18.Add Git to an Existing Project

<http://initializr.com> - generate source for a new project -

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download the project source zip file

Terminal

expand project zip in projects directory

```
$ mv initializer web-projects - renames folder -> web-projects
```

```
$ cd web-projects folder --
```

```
$ git init - adds git source control - creates .git repo in the project folder
```

```
$ git status - master branch & shows untracked files -
```

```
$ git add . - adds all untracked files to the staging area
```

```
Using a period "." in $ git add - recursively adds files in sub folders -
```

```
$ git commit -m "message for commit, inline"
```

```
$ git status - reveals working directory clean i.e. commit to local repo complete
```

Discuss - master branch repo structure - working directory & .git repo

.git folder - the 'local repo' - manages the source files -

```
$ rm -rf .git -- removes source control from the project -
```

cleanup -