Git

clone → makes copy of code from repo to local
add → track your files and changes in Git
commit → save your files to git
push → upload commits to a remote repo like Github
pull → download changes from remote repo to local

Readme.md (markdown file to describe code)

git config --global user.name user.email
set up branch main

cd c:/Users/"Ethan Perry"/OneDrive/Desktop/Wheaton/...

git status (of repo) of tracked files
 ☆ GIT does not track unchanged files   .
to check status of tracked files, do git add --all
to remove do "git rm -cached <file.name>"

IGNORE FILE   .gitignore
See more ignore notes w/ further research

tracked files are in staging → holding pen
Commit takes a snapshot at moment in time
 → git commit -m "first commit"
See what difference vs
 → git diff

Working files, staging, commit

∿∿∿✗ merge conflict

git restore --staged index.htm

git commit -a -m "skipping stagging"
         (all) (message)

git can recognize when a file has been deleted
while it is being tracked

git mv oldname new name   rename

git log , review commits   (-- one line)
--amend message text last message

BRANCHING   push branch changes

git branch NAME creates
git branch shows all branches and active one
git switch NAME

edits made in dir are on branch

[MERGE]   git merge -m " " branch

delete git branch -d NAME

Merge CONFLICT   git switch -c NAME

(master|merging)

git branch branchName

Git hub

push local repo to cloud
→ git remote add origin "https://
→ git branch -M main //set target branch to main

git push -u origin main!

//push all branchs
git push --all

Pull request

This change has to be approved before change is
pushed to main branch.

- creates branch w/ proposed change so someone
can review the branch, and then work is
added on there

tie issues to pull requests

Pull from cloud to local

git fetch and then git merge to fetch and
merge

OR git pull

new com 649

open CLion and create from existing sources

(git init) (init terminal to create git repo)

create .gitignore and add | create this file in
  .idea/ | folder explorer
  cmake-build-*/
  build/
  */build/
  *.o
  *.exe
  *.out

git add .   // to staging
git commit -m "initial commit"

create github repo, NO Readme, copy (url)
git branch -M main
git remote add origin https:// ...
git push -u origin main
    ↰ first time, thenafter just do git push

Can manually update name w/ edit in github

Config CLion & Github

1) open CLion and create new project

2) git init and create a .gitignore file
   by adding file to dir

3) add .idea/, cmake-build-*/, build/
   */build/, *.o, *.exe, *.out', *.pdf
   * do not git add to staging before this

4) <u>then</u> git add.
   git commit -m "initial commit"

5) create repo on github and copy URL

6) git branch -M main
   git remote add origin https://
   git push -u origin main