Create a Github account

1. Go to github.com.
2. Enter a username. This is your account name. This can be anything but your instructor may request that you use a specific name.
3. Enter an email address. This can be any email address you own. Your instructor may request that you use a specific email address.
4. Enter a password.
5. Click Sign up for GitHub.
6. Welcome to GitHub page.
   1. Step 2. Select Unlimited public repositories for free. Press Continue.
   2. Step 3. Fill out survey: select School projects; select I’m a student;
7. You may be sent a Verification notice to the email address you entered in step 3. Check your email. Follow the instructions to verify the invitation.

Download GitHub Desktop and install

1. Search for github desktop install into your browse.
2. Select GitHub Desktop
3. When the download page is shown, press Download for Windows (64 bit)
4. Open the .exe download file.
5. Login in as requested
6. install

Create a repository

There are a number of ways to create a new repository. It can be created locally on your remote machine (your desktop) or within github.com.

Within github.com

1. Log into you github.com account via your browser.
2. Press the + sign on your menu (top right between bell and account image)
3. Select New repository
4. Enter the name of your new repository
5. Optional Description
6. Choose between private and public (we will choose public)
7. Check Initialize this repository with a README
8. Press Create repository
9. Adding .gitignore file
   1. Local and press the Create new file button
   2. Enter .gitignore
   3. Open a new tab in your browse and go to gitignore.io
   4. In the input box enter Windows and select
   5. In the input box enter VisualStudio and select
   6. Press Create
   7. Select All (Ctrl + A) and copy (Ctrl + C)
   8. Return to the Create new file tab on your browser
   9. Paste in the edit area
   10. Scroll down to the green Commit button and press
10. Adding .gitattributes file
    1. Local and press the Create new file button
    2. Enter .gitattributes
    3. Open a new tab in your browse and go to gitattributes.io
    4. Click the input box; select Common
    5. Click the input box; scroll and select VisualStudio
    6. Press Generate
    7. Select All (Ctrl + A) and copy (Ctrl + C)
    8. Return to the Create new file tab on your browser
    9. Paste in the edit area
    10. Scroll down to the green Commit button and press

Moving “data” between desktop and github.com

“Data” is kept in repositories as snapshot changes. Repositories can be private (limited access to authorized individuals) or public (can be seen by anyone with a github account)

Cloning (from github.com to your locally machine)

1. Open github desktop
2. File/Clone repository
3. GitHub.com tab
4. Select from the list or start typing the repository name into the Filter (list will automatically update as you type)
5. Ensure Local path is to your GitHub folder (default is in Documents folder)
6. Press Clone

Syncing local repository and github.com

1. Under Current repository list, select the desired repository
2. Press Fetch origin
   1. Pull (bring down the current contents from github.com to your local repository)
   2. Push (push up the current commits from your local repository to github.com)

Changes vs History

History: record of commits to this repository; shows files and changes to files

Changes: current changes to this local repository which need to be committed.

Committing: “snapshot” of the physical changes to the repository

1. Select Change tab
2. Enter a short (64 character max) subject message about the changes
3. Optional: Enter a longer description of the changes that are being committed.
4. Press Commit to master

Removing local repositories

1. Open Current repository list
2. Right click on repository to remove
3. Select remove
4. Read warning. Press Remove
5. Open Windows Explorer and physically remove the repository folder.

Removing github.com repositories

1. Log into your github account.
2. Select the repository to be removed
3. Press Settings (on menu)
4. Scroll to the bottom (Danger Zone)
5. Press Delete this repository
6. Read the warning message. (second chance)
7. Type in the full repository name (account/repositoryname)
8. Press I understand the consequences, delete this repository

Working session rules:

1. Open github desktop.
2. Sync local repository with github.com
3. Open your project and do your work.
4. You can commit frequently as you do your work.
5. When you are finished your work session, save all in your project and close
6. Commit any outstanding changes seen in your desktop
7. Sync local repository to github.com
8. Close all applications and log off