CPS 3500 PROGRAM WORLD WIDE WEB SERVER

Assignment #2. Flexbox

Due Date: Listed on BB, 30 Points

(This assignment should be submitted all in 1 PDF)

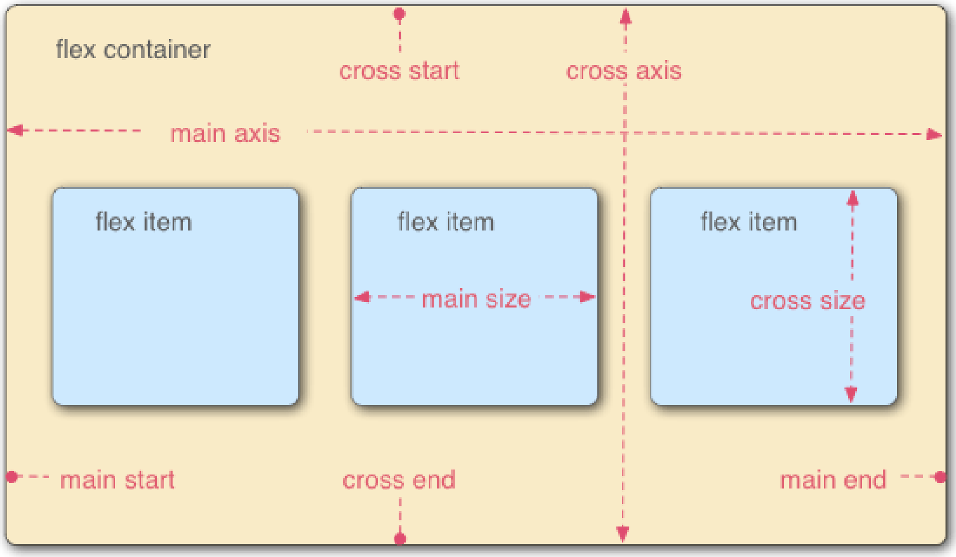
Flexbox is a *CSS 3* web layout model.
Flex boxes can adjust in size:

- either ***decreasing***, to avoid unnecessarily monopolizing space,
- or ***increasing*** to make room for contents to be constrained within its boundaries.

One of flexbox's advantages is the ability to easily align items within the container to the center of a page, both vertically and horizontally.

Flexbox vocabulary:

- **Flex container:** Parent element that holds all flex items. Using the CSS display property, the container can be defined as either flex or inline-flex.
- **Flex item:** Any direct child element held within the flex container is considered a flex item. Any text within the container element is wrapped in an unknown flex item.
- **Axes:** Each flex box contains two axes: the main and cross axes. The main axis is the axis on which the items align with each other. The cross axis is perpendicular to the main axis.



- **Flex-direction** establishes main axis. Possible arguments: row (default), row-reverse, column, column-reverse.
- **Justify-content** determines how content gets placed on the main axis on the current

line. Optional arguments: left, right, center, space-between, space-around.

- **Align-items** determines the default for how flex items get placed on the cross axis on each line.
- **Align-content** determines the default for how cross axis lines are aligned.
- **Align-self** determines how a single item is placed along the cross axis. This overrides any defaults set by align-items.

Complete all 7 TASKS

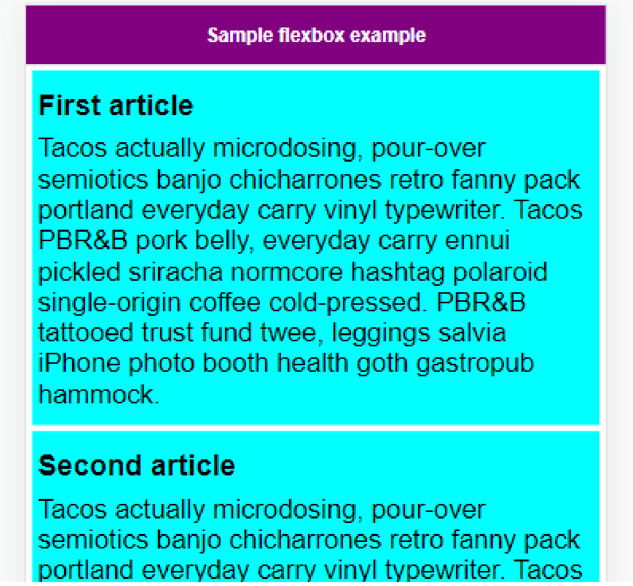
You might find this tutorial helpful: https://www.w3schools.com/csS/css3_flexbox.asp

TASK 1. Read through the whole page of flexbox tutorial at: https://developer.mozilla.org/en-US/docs/Learn/CSS/CSS_layout/Flexbox, follow the tutorial and try the examples included in Mozilla's tutorial. There are 4 of them:

1. https://github.com/mdn/learning-area/blob/main/css/css-layout/flexbox/flexbox0.html
2. https://github.com/mdn/learning-area/blob/main/css/css-layout/flexbox/flexbox-wrap0.html
3. https://github.com/mdn/learning-area/blob/main/css/css-layout/flexbox/flex-align0.html
4. https://github.com/mdn/learning-area/blob/main/css/css-layout/flexbox/complex-flexbox.html

Provide all your source code and screenshots of the output after completing the tutorial.

TASK 2. Slightly modify each example. For example, you will see the Sample box examples (below) having aqua color. Change font(s) and / color(s) of the header and adjust each of the articles to give it a personal touch and original look and feel. You can add more/ include additional elements to the example, adjust text, etc. but do not remove existing elements and their flex (Examples below).



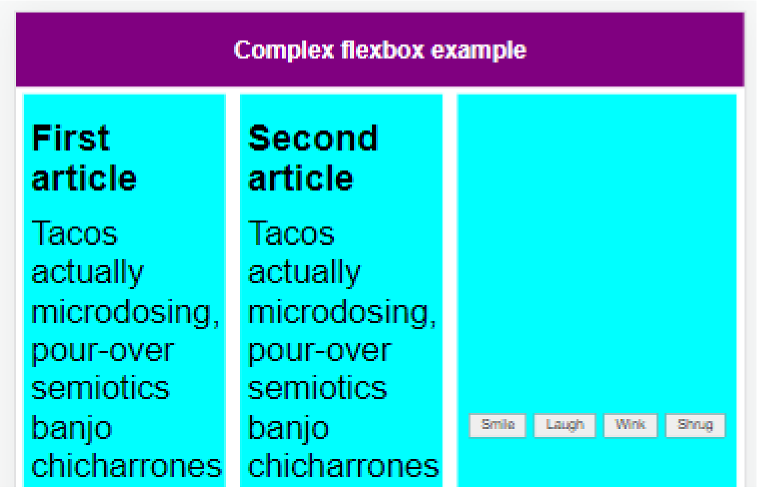
Sample flexbox example

First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos PBR&B pork belly, everyday carry ennui pickled sriracha normcore hashtag polaroid single-origin coffee cold-pressed. PBR&B tattooed trust fund twee, leggings salvia iPhone photo booth health goth gastropub hammock.

Second article

Tacos actually microdosing, pour-over semiotics banjo chicharrones retro fanny pack portland everyday carry vinyl typewriter. Tacos



Complex flexbox example

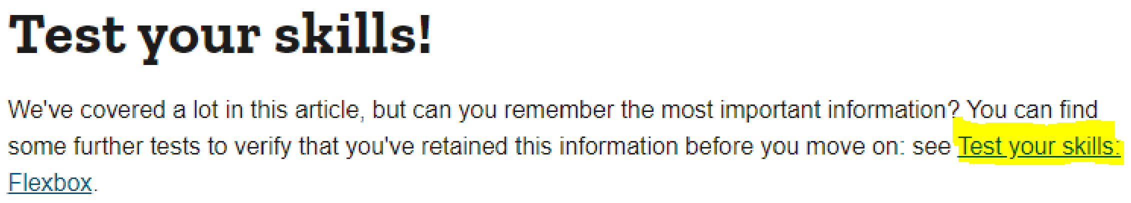
First article

Tacos actually microdosing, pour-over semiotics banjo chicharrones

Second article

Tacos actually microdosing, pour-over semiotics banjo chicharrones

TASKs 3 - 6. At the bottom of the page tutorial, you will see the test. It has starting scripts like this: http://eve.kean.edu/~ykumar/CPS3500_SP2022/flexboxTest.html and a result required (how this should look like after applying flex). There are 4 tasks to implement. Complete them all as tasks 3 to 6 of this assignment.



Test your skills!

We've covered a lot in this article, but can you remember the most important information? You can find some further tests to verify that you've retained this information before you move on: see Test your skills: Flexbox.

Complete all the test tasks. Do this for every task:

a) **Screenshot the initial assignment.**

b) **Implement the assignment to the best of your ability. Do not be afraid to be creative.**

c) **Add your name to every Web page (so its shown in the browser)**

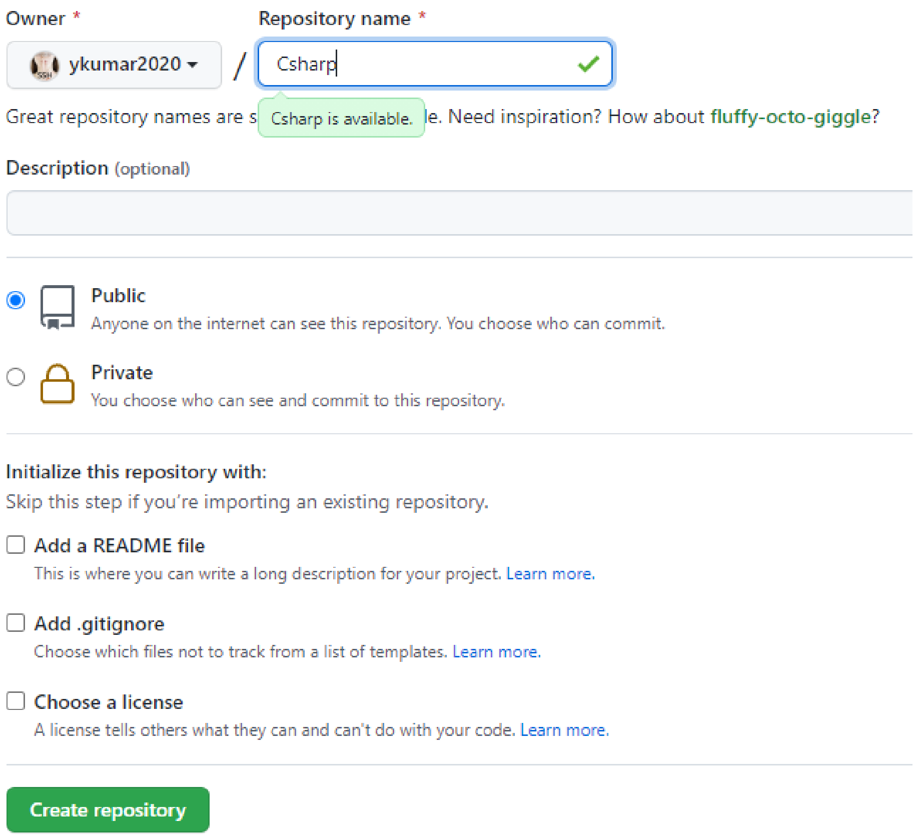
d) **Update look and feel making the test unique**

e) **Provide all your source code and screenshot of the output for each of the assignments.**

TASK 7. Deploy at least one of your completed assignments from TASKs 3 - 6 to eve.kean.edu and provide a link to it. Push your source code to GitHub (instructions below). Provide screenshots proving that part 7 was completed

Open your Github Account. And click on "Your Repository."
https://github.com/login

Create a New Repository



Owner * Repository name *

ykumar2020 / Csharp ✓

Great repository names are s Csharp is available. le. Need inspiration? How about fluffy-octo-giggle?

Description (optional)

● Public
Anyone on the internet can see this repository. You choose who can commit.

○ Private
You choose who can see and commit to this repository.

Initialize this repository with:
Skip this step if you're importing an existing repository.

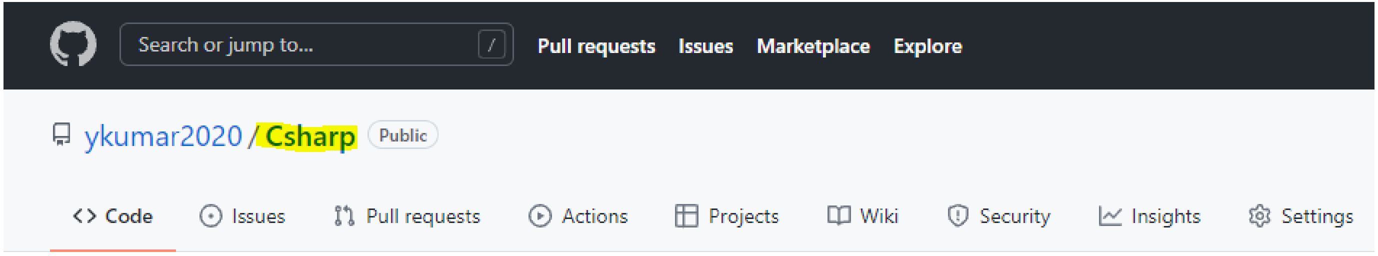
□ Add a README file
This is where you can write a long description for your project. Learn more.

□ Add .gitignore
Choose which files not to track from a list of templates. Learn more.

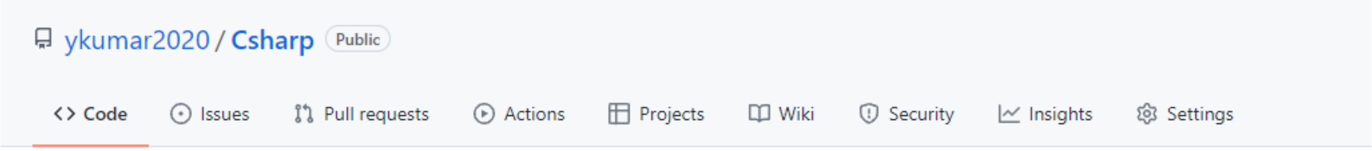
□ Choose a license
A license tells others what they can and can't do with your code. Learn more.

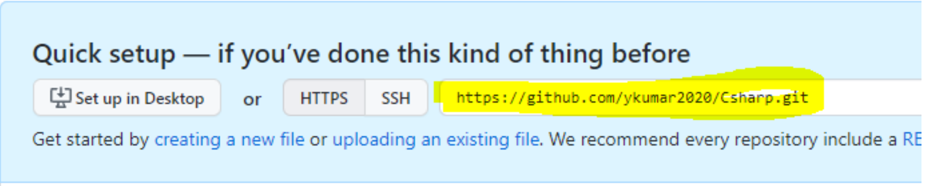
Create repository

You can mark it private



Once the repository is created, Copy the repository's web URL to push the code in the Github repository.



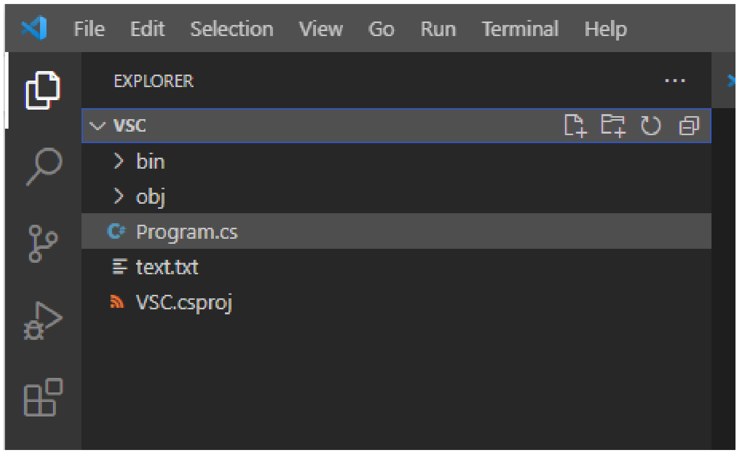


Quick setup — if you've done this kind of thing before

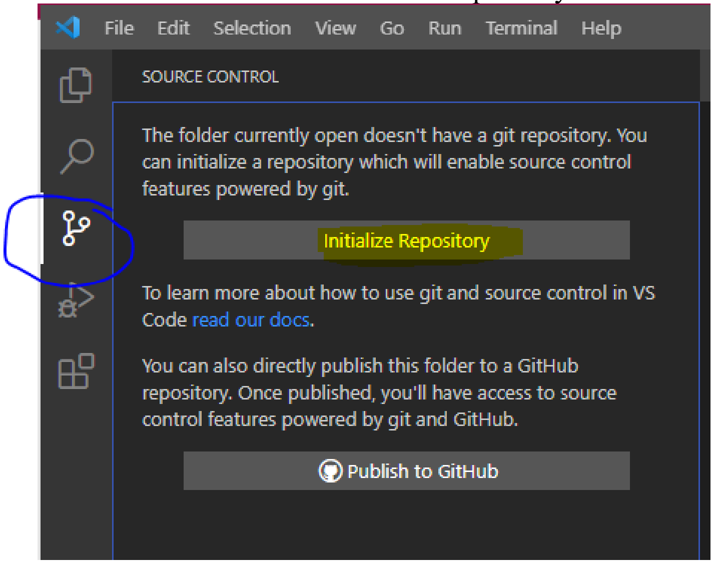
Set up in Desktop or HTTPS SSH `https://github.com/ykumar2020/Csharp.git`

Get started by creating a new file or uploading an existing file. We recommend every repository include a RE

Open the Visual studio code and open the folder which you want to push. **We will push VSC folder.**



After that, click on the “Source Control icon” and click on “Initialize Repository.”



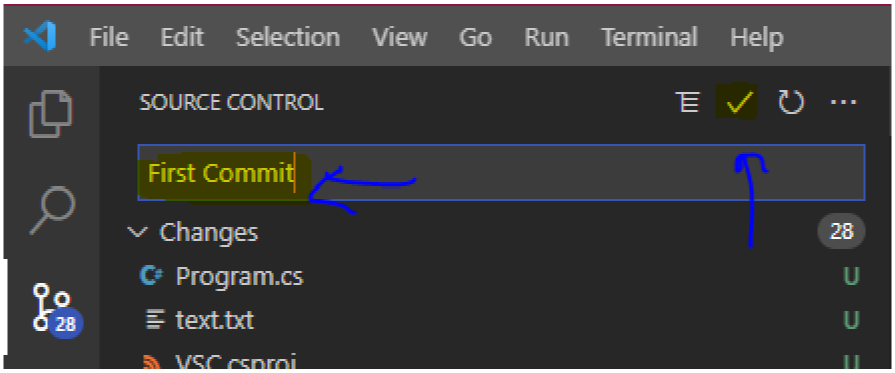
The folder currently open doesn't have a git repository. You can initialize a repository which will enable source control features powered by git.

To learn more about how to use git and source control in VS Code read our docs.

You can also directly publish this folder to a GitHub repository. Once published, you'll have access to source control features powered by git and GitHub.

Now give a commit message, press the “Ctrl + Enter” keyword, and then click on “Yes.” As you can see, it will start committing.

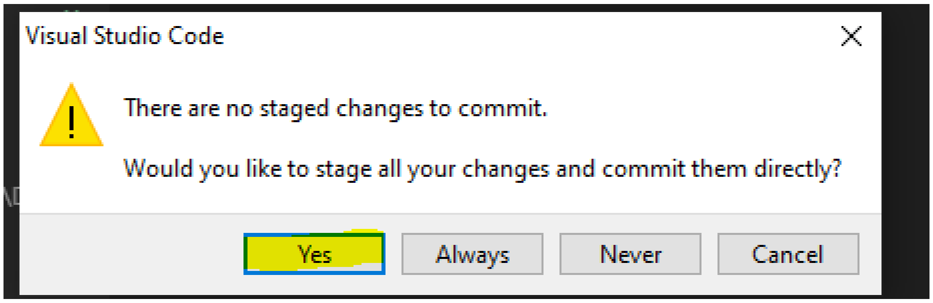
Type First Commit and click Check mark



First Commit

Program.cs	U
text.txt	U
VSC.csproj	U

Pop-up should appear

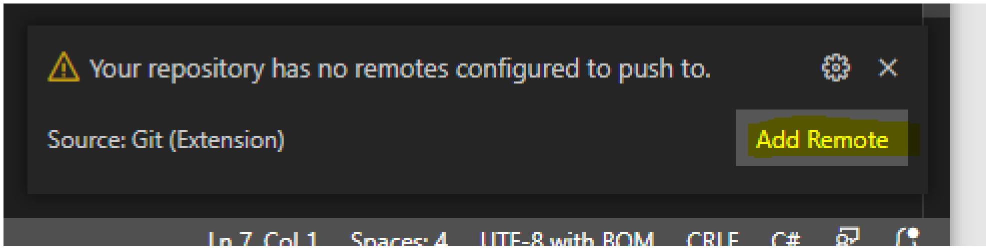

Visual Studio Code

There are no staged changes to commit.

Would you like to stage all your changes and commit them directly?

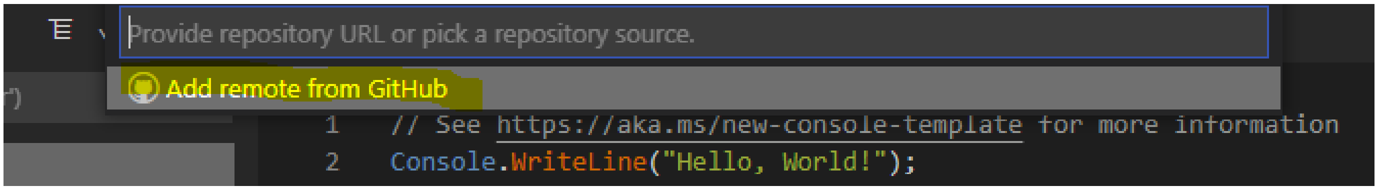
Click Yes

Click on the ... -> Pull, Push -> Push to

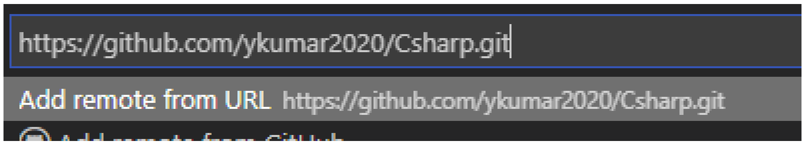

Your repository has no remotes configured to push to.

Source: Git (Extension)

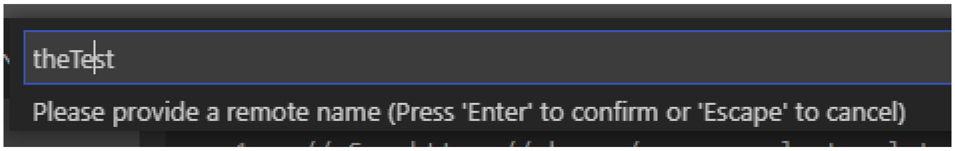
Click add remote


Provide repository URL or pick a repository source.

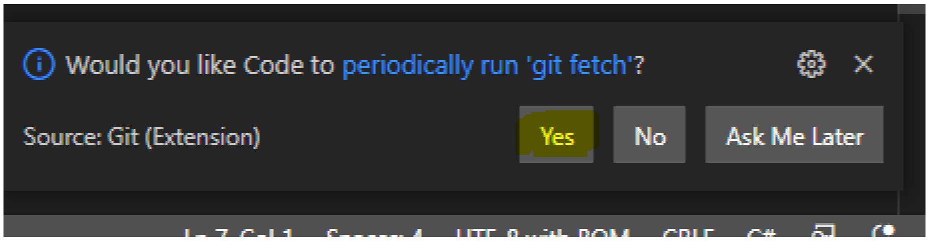
```
// See https://aka.ms/new-console-template for more information
Console.WriteLine("Hello, World!");
```


https://github.com/ykumar2020/Csharp.git

Add remote from URL https://github.com/ykumar2020/Csharp.git


theTest

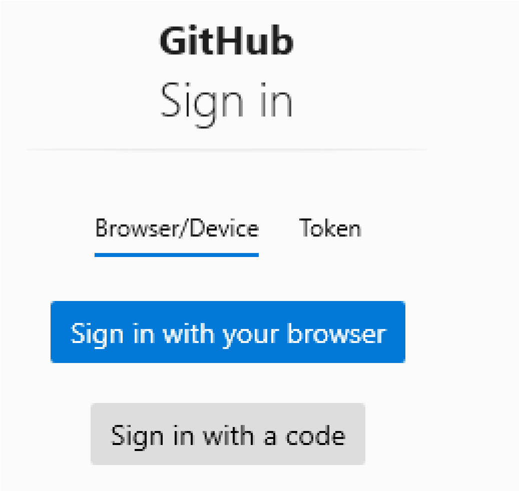
Please provide a remote name (Press 'Enter' to confirm or 'Escape' to cancel)


Would you like Code to periodically run 'git fetch'?

Source: Git (Extension)

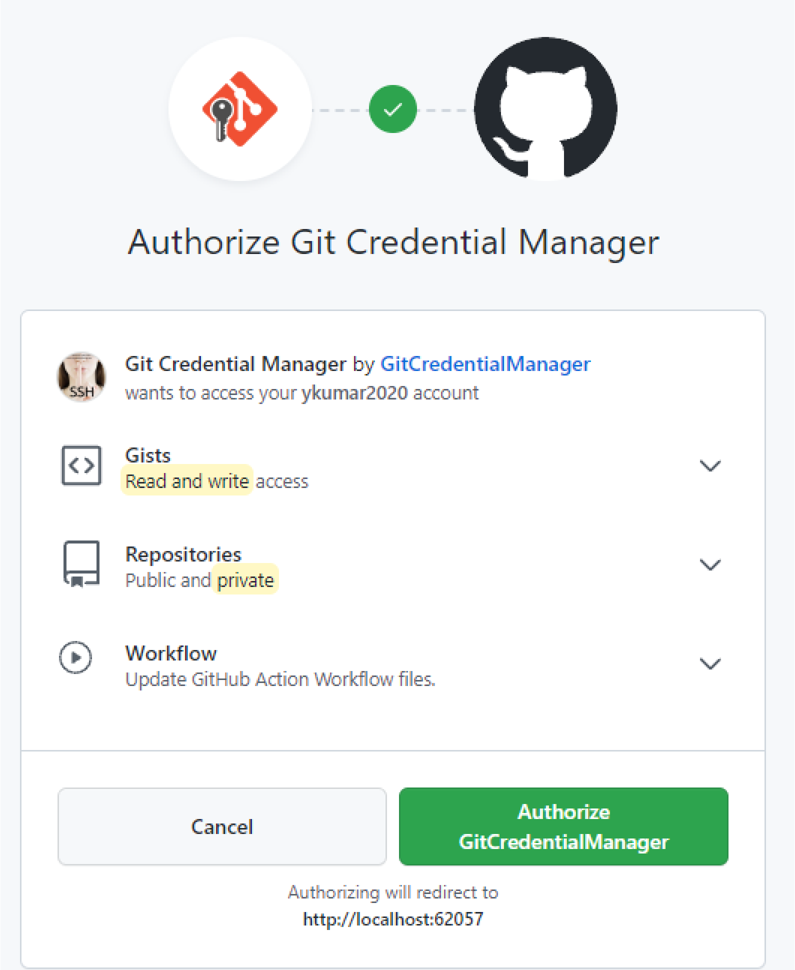
click on "Push To." The URL will be shown in the selection area appended with the Remote name. Choose the URL that you have pasted and press "Enter." After clicking on push, it'll take some time to update the repository on Github.

Sign in if prompted



GitHub

Sign in



Authorize Git Credential Manager

Git Credential Manager by GitCredentialManager
wants to access your ykumar2020 account

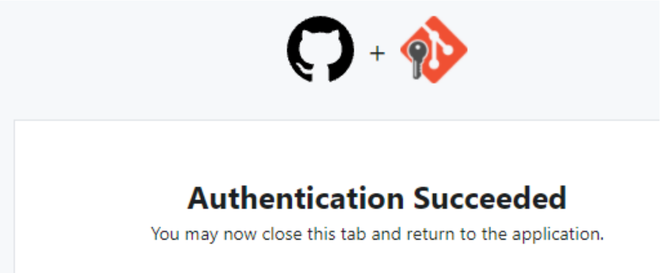
Gists
Read and write access

Repositories
Public and private

Workflow
Update GitHub Action Workflow files.

Authorizing will redirect to
http://localhost:62057

then click on “Push to.” It will show you a message and click on “Add Remote” and paste the URL of that Github Repository and press “Enter.” Now, Enter the name of Remote and press “Enter.”



Authentication Succeeded

You may now close this tab and return to the application.

The code should appear on GitHub

Troubleshoot yourself or contact Code Samurai.

It is recommended to configure push by clicking on advanced on the pop-up in the middle of the screen. We will choose from master-to-master branch and press Add spec. Since August 13, 2021, GitHub does not support authentication via HTTPS with your GitHub account password for security reasons anymore. Instead, in Eclipse, when pushing to a GitHub repository or when fetching from a private repository, you will get a git-upload-pack not permitted on 'https://github.com...' error[1]. Workaround for it is to use a personal access token. Instructions on how to do it are presented below.

You might have to create a personal token and use it instead of your password

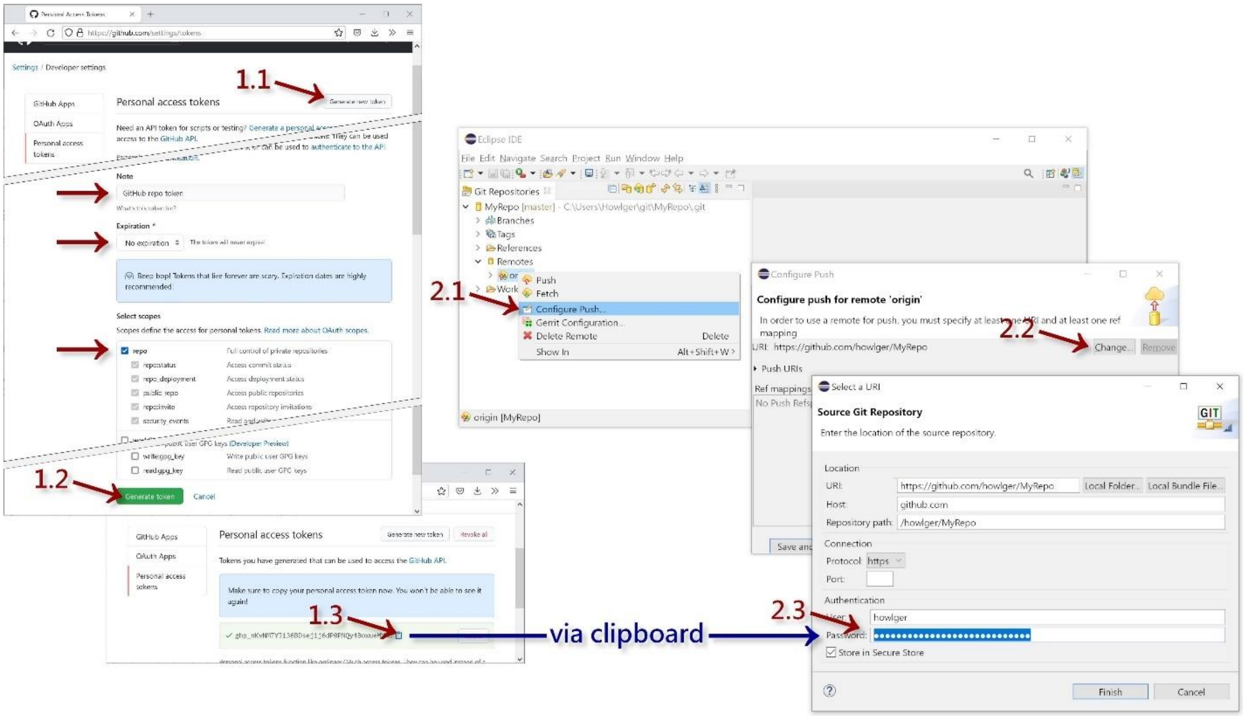


Figure 1. Obtain and Use the Personal token[2]

1. Push.

[1] https://stackoverflow.com/questions/68790276/pushing-from-eclipse-to-my-github-repository-via-https-stopped-working-git-rec#:~:text=In%20Eclipse%2C%20in%20the%20Git%20Repositories%20view%20right-click,HTTPS%20%28old%3B%20does%20not%20work%20for%20push%20anymore%29%3A

[2] https://i.stack.imgur.com/NSDoK.jpg