

HTML Elements and Website File Structure

SLACK

- If you aren't on slack, do it now.
 - Send me a DM so I know you are online

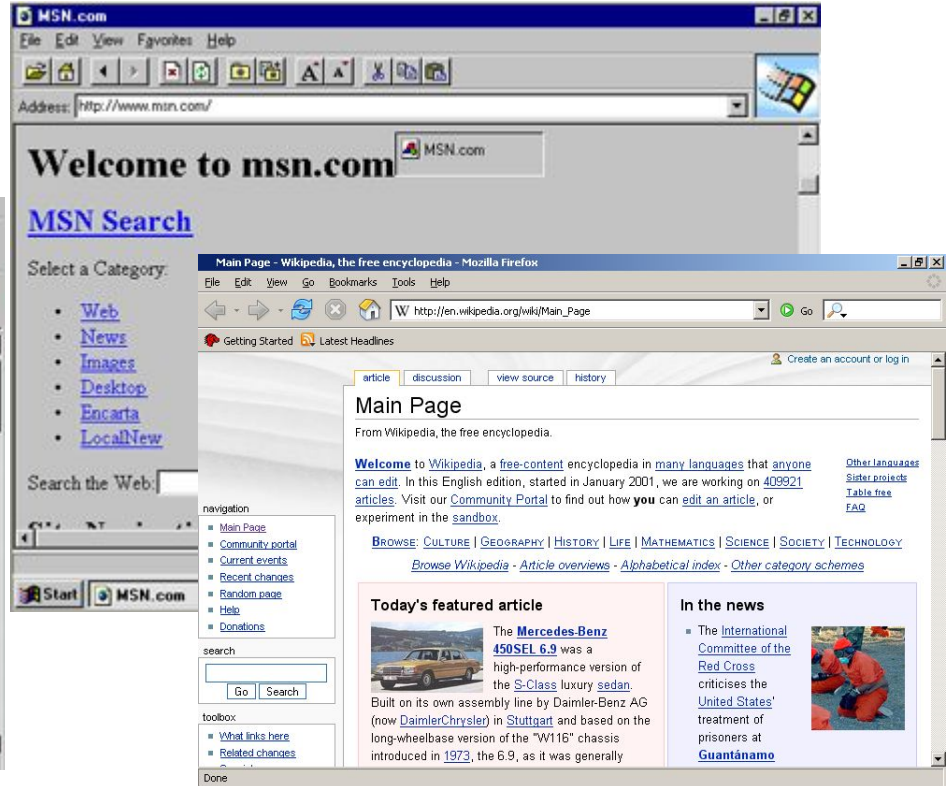
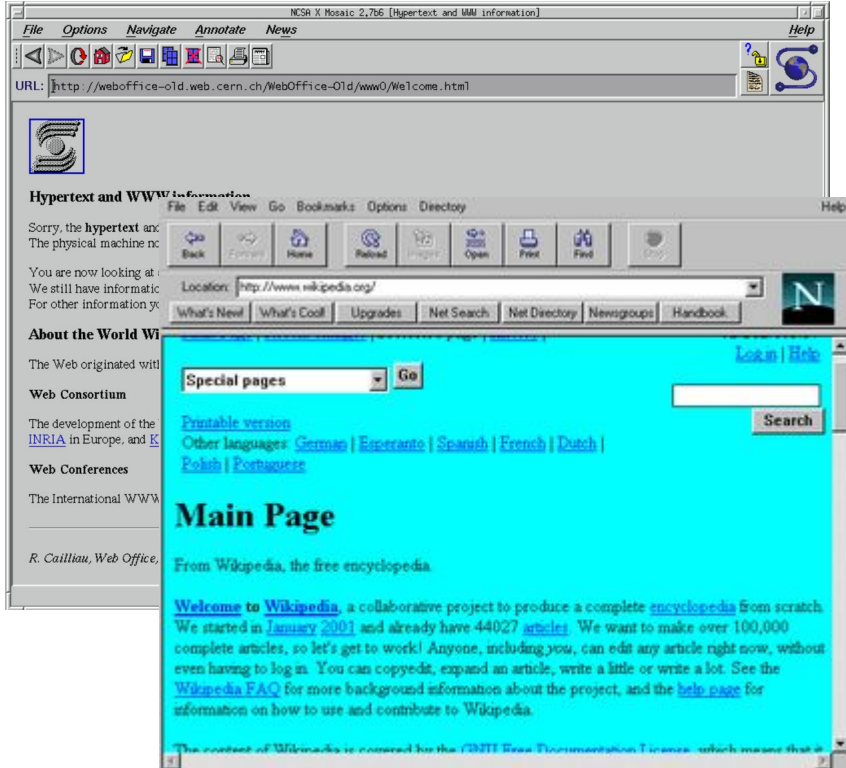


This task is 99% of your grade :thumbsup:

What is HTML?

- HTML stands for Hyper Text Markup Language
- It is the standard language for web pages
- It defines the structure of a web page
- It is made up of a series of elements
- Elements tell the browser how to display the contents of a web page

Role of Browser



What is <!DOCTYPE>?

<!DOCTYPE> tells the browser the document type, and helps to properly display the web page

<!DOCTYPE> can only be at the top of the page and must only appear once

Unlike other elements it does not need a closing tag

<!DOCTYPE> is not case sensitive

HTML Basic Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
  <body>
```

```
    <p>This will appear on the page</p>
```

```
  </body>
```

```
</html>
```

HTML Elements

An HTML element is all the content that is contained between the start tag to the end tag:

`<tagID>Content goes here...</tagID>`

Example: `<p>This is a paragraph</p>`

HTML Hello World

Let's review our first website!

Head

The HTML `<head>` element is typically at the top of the html document and contains the following elements:

- `<title>` - Defines the title in the web browser toolbar
- `<style>` - Defines the style of the web page or elements on the page
- `<meta>` - Not displayed on webpage but is used to define authors or other content on the page that is typically used for better searchability by search engines
- `<link>` - Used to link documents or libraries to webpage
- `<script>` - Defines any javascript that will be run on the page

Body

The body of a webpage is the main content of the webpage

The body's content is typically unique to a single webpage

Experiment with tags:

<title></title>

<p></p>

<i></i>

<u></u>

<a>

<button></button>

(the below do not have a closing tag)

<hr />

Let's make that link functional

```
<a href="hello_world.html">Functional Link</a>
```

File structure of a website

Every site **MUST** have an index.html

When someone navigates to your web page it will direct to index.html

Other web pages are created by making .html files

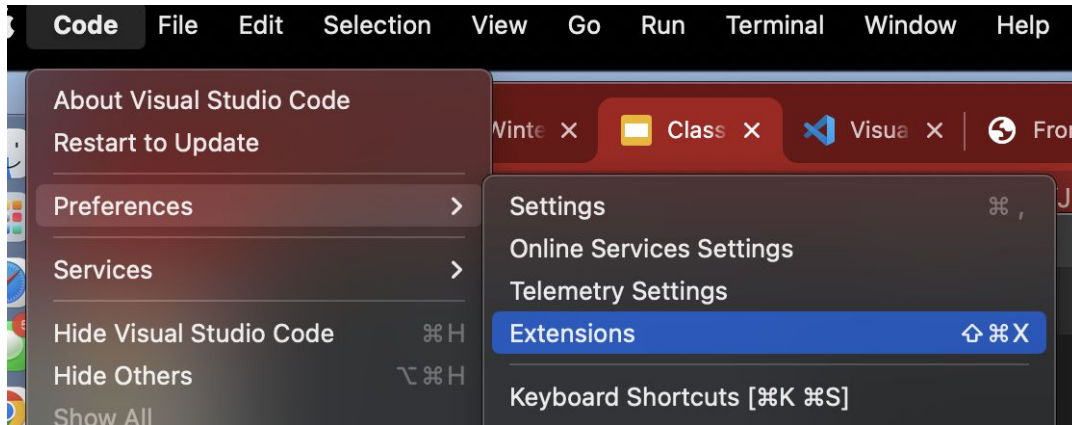
Documents can either be in the root directory or in folders

Let's create a few sub pages!

Prepare to Publish!

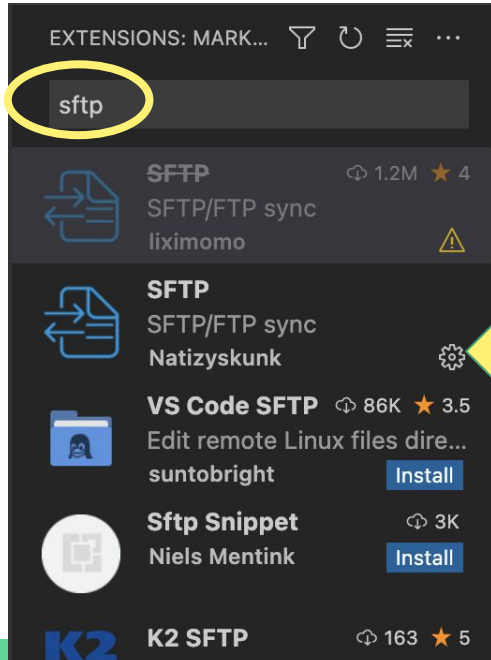
FTP - File Transfer Protocol

1. Navigate to Extensions in VS Code



Prepare to Publish!

2. Search for FTP in the extensions sidebar



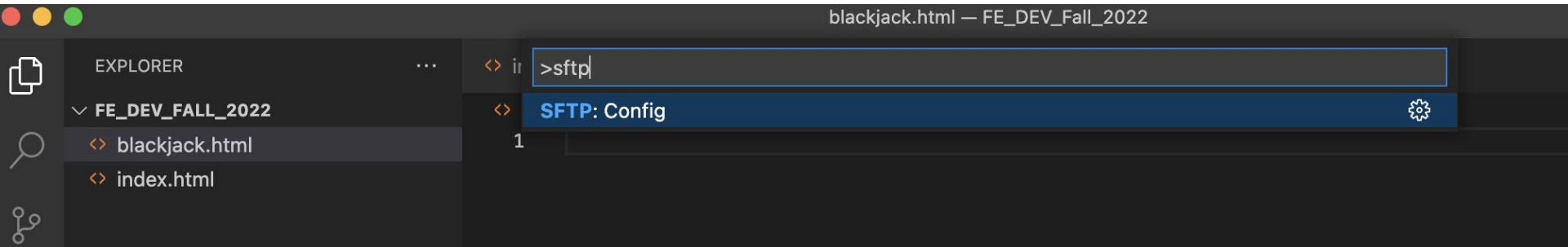
3. Search for “sftp” in the extensions sidebar.

4. Click blue “Install” button on the version by Natzyskunk

Prepare to Publish!

5. Once installed, hit cmd+shift+p
(pc: ctrl+shift+p)

6. Type in SFTP, and select the
SFTP:Config option

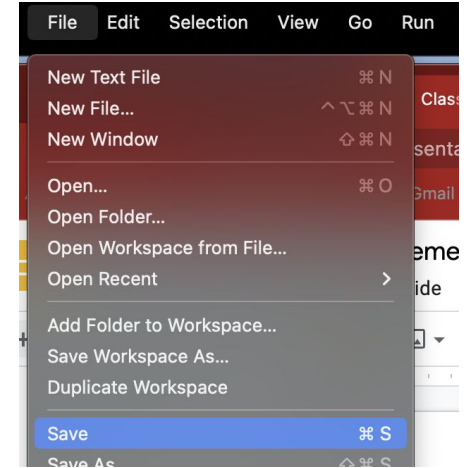


Prepare to Publish!

7. Configure your connection to the server

```
FE_Spring_2023 > .vscode > {} sftp.json > ...
1  {
2    "name": "uoadev.com",
3    "host": "spring2023.uoadev.com",
4    "protocol": "sftp",
5    "port": 22,
6    "secure": true,
7    "username": "FrontEndClass",
8    "remotePath": "/spring2023/pages/mark-m",
9    "password": "PeanutButter23",
10   "uploadOnSave": true,
11   "secureOptions": { "rejectUnauthorized": false}
12 }
```

8. Save!!!!!!

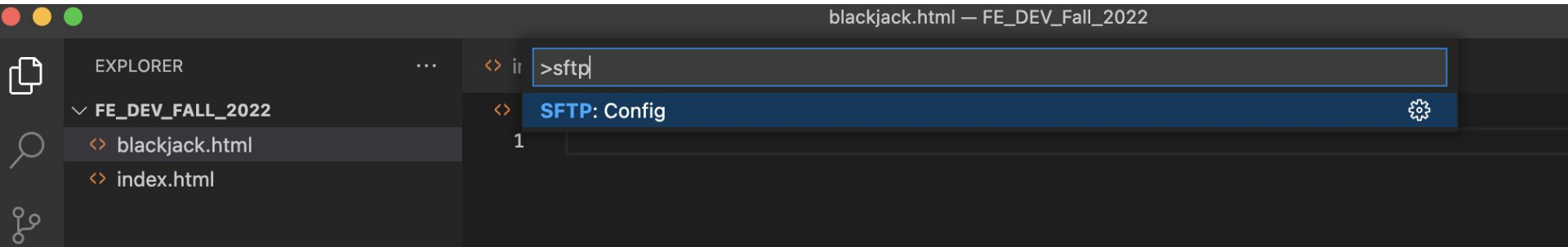


Change to yourFirstName-lastInitial

Prepare to Publish!

5. Once installed, hit cmd+shift+p
(pc: ctrl+shift+p)

6. Type in SFTP, and select the
SFTP:Config option

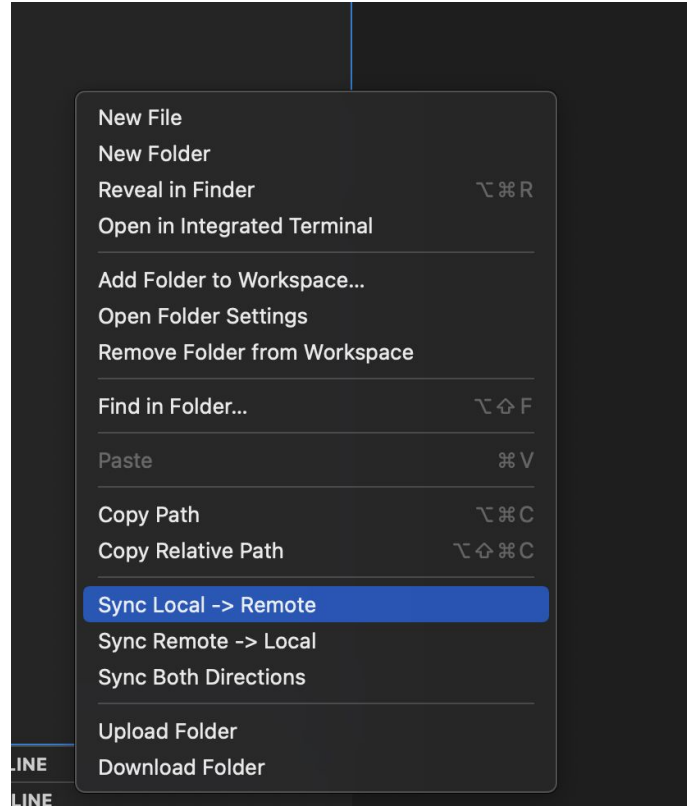


Publish your Website!

Local

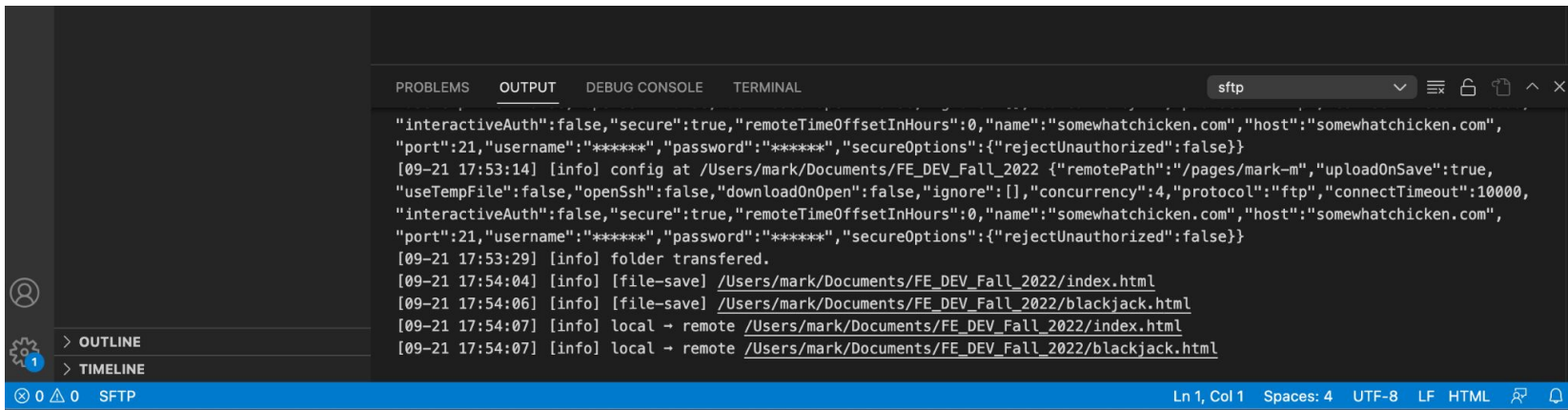
Vs.

Remote



Did it Work?

Check the console in VS Code



The screenshot shows the VS Code interface with the terminal window open. The terminal title is 'sftp'. The output shows several log entries:

```
"interactiveAuth":false,"secure":true,"remoteTimeOffsetInHours":0,"name":"somewhatchicken.com","host":"somewhatchicken.com",
"port":21,"username":"*****","password":"*****","secureOptions":{"rejectUnauthorized":false}}
[09-21 17:53:14] [info] config at /Users/mark/Documents/FE_DEV_Fall_2022 {"remotePath":"/pages/mark-m","uploadOnSave":true,
"useTempFile":false,"openSsh":false,"downloadOnOpen":false,"ignore":[],"concurrency":4,"protocol":"ftp","connectTimeout":10000,
"interactiveAuth":false,"secure":true,"remoteTimeOffsetInHours":0,"name":"somewhatchicken.com","host":"somewhatchicken.com",
"port":21,"username":"*****","password":"*****","secureOptions":{"rejectUnauthorized":false}}
[09-21 17:53:29] [info] folder transferred.
[09-21 17:54:04] [info] [file-save] /Users/mark/Documents/FE_DEV_Fall_2022/index.html
[09-21 17:54:06] [info] [file-save] /Users/mark/Documents/FE_DEV_Fall_2022/blackjack.html
[09-21 17:54:07] [info] local -> remote /Users/mark/Documents/FE_DEV_Fall_2022/index.html
[09-21 17:54:07] [info] local -> remote /Users/mark/Documents/FE_DEV_Fall_2022/blackjack.html
```

The status bar at the bottom indicates 'SFTP' mode, 'Ln 1, Col 1', 'Spaces: 4', 'UTF-8', 'LF', 'HTML', and a notification bell icon.

Validate at somewhatchicken.com

Homework

Create 2 web pages on your w3schools spaces site that contains the following.

- An index.html page
 - Give it a title
 - Create content about what you want to do with your html skills using tags we learned
 - Create a link to an “about me” page.
- An about me page.
 - The website title shows your name
 - Body with facts about you.
 - Contains one link to an external site such as linkedin.

Push to uoadev.com

Complete by Tuesday