

Lecture Exercise 1 (4/11)

Submit your team number.

Question *Submitted Apr 11th 2023 at 5:21:58 pm*

Please enter your team number.



If you are in **Sooh**'s section, please **wait until the end of the class to fill this one out**, since TAs are probably re-assigning your team number in the beginning of the activity today.

12

1. Install VSCode

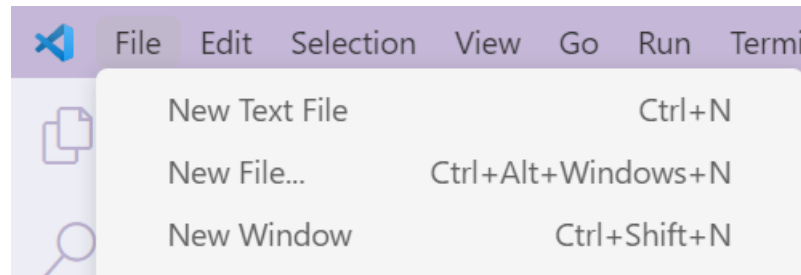
Download link is [here](#). It is encouraged to use VSCode.

(Some helpful [VSCode Tricks](#) you can use in this course)

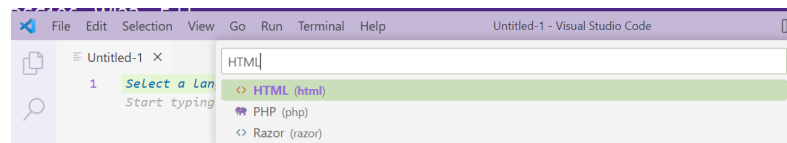
You may use other text editors such as [Sublime Text](#). However, we strongly recommend VSCode since we will use extensions for VSCode (mainly LiveServer) in this course.

2-1. Opening a HTML document

1. Open VSCode with a new text file or press **Ctrl + N**

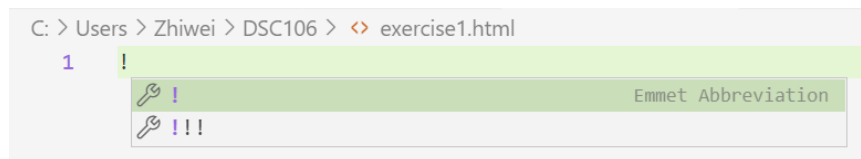


2. Select the language as HTML



3. **Save** the Untitled-1 file as **exercise1.html**

4. Type "!" in the file and press Enter



5. Voila! Your HTML skeleton is ready. Now let's start writing the first webpage.



2-2. Load the HTML through a Server

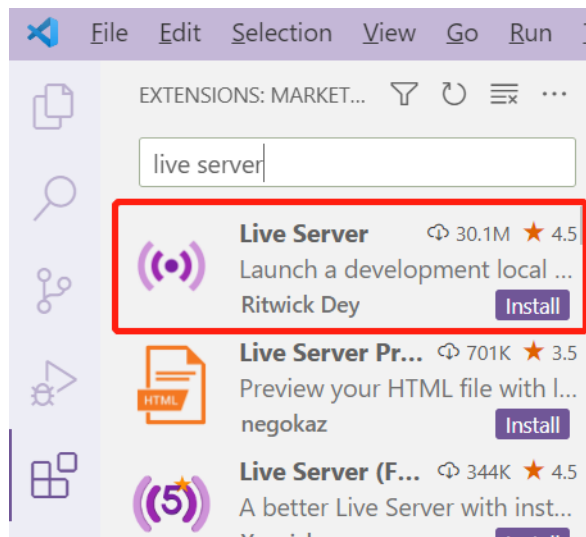
Just running the html might pop up an error, especially in later lectures and assignments. You need to start a server to be able to read local files. There are **two** ways you can get a server running .



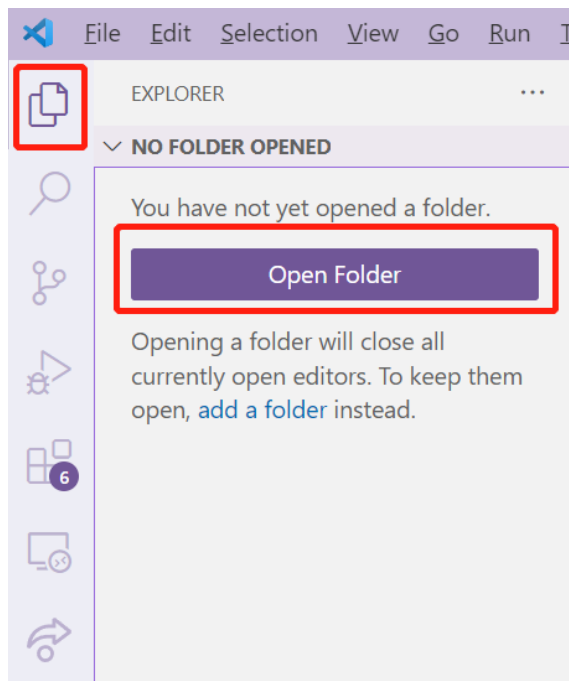
Wait, but why do I need to load my html through a Server? When the document includes Javascript code or other data like 'csv's, web browsers may prevent loading the document. It is for safety purposes, as this html file was never approved by any web-publisher. To avoid such a problem, it's conventional to render your html document through a *mock* web server, often called as a local server which asks your computer to *pretend* to be a server for your html.

1. VSCode (recommended)

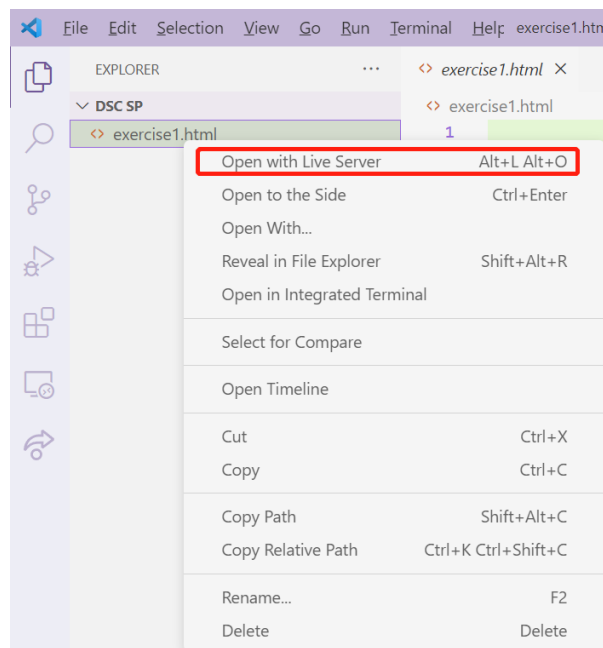
- Install “Live Server” extension



- Open the **folder** with your saved HTML file



- Right click on .html file in the **Explorer** and select open with live server



2. Terminal (a more general but complex method)

1. Open your terminal (if you have Anaconda installed, you can use Anaconda prompt)
2. Navigate to the directory which has your .html file
3. Run the following command:

```
python3 -m http.server 8888 &.
```

4. The following variation also works (depending on what version of python you have). You can also change the port number to be 8000, if the port 8888 is already assigned for other courses.

```
python -m http.server 8888 &.
```

5. Open <http://localhost:8888/> on your web browser

3. Explore different html tags

Check out some tags on [W3Schools](https://www.w3schools.com/html/) tutorial that are listed through the Questions below. You can click on each tag from the link then "Try it Yourself."

Example

A simple HTML document, with a <title> tag inside the head section:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Title of the document</title>
</head>
<body>

  <h1>This is a heading</h1>
  <p>This is a paragraph.</p>

</body>
</html>
```

Try it Yourself »

Question 1 Submitted Apr 11th 2023 at 5:23:12 pm

**What do <p> and
 do?**

<p> is a paragraph element and you can add text into it

 is a line break element and creates a new line

Question 2 Submitted Apr 11th 2023 at 5:25:27 pm

What does <a> do?

<a> is a hyperlink

4. Add attributes to a html element

Now we would like to add more content in your exercise1.html. You need to finish the following tasks:

1. Write a HTMLcode that embeds an image of your choice using ``, in `<body>` of exercise1.html.
2. Edit the following `<p>` element so that it belongs to a class named "sample". For "class" and other HTML attributes, you can refer to [this page](#) for more details.

```
<p> This paragraph is under "sample" class. </p>
```

Question 1 Submitted Apr 11th 2023 at 5:33:39 pm

Copy/paste the code of your `` element.

```
<img  
src="data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAQABAAD/2wCEAAkGBwgHBgkIBwgKCg  
kLDRYPDQwMDRsUFRAWIB0iIAdHx8kKDQsJCYxJx8fLT0tMTU3Ojoe6lYs/RD84QzQ5OjcBCgoKDQ  
wNGg8PGjclHyU3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc  
3N//AABEIAJ4A5AMBIgACEQEDEQH/xAAcAAABBQEBAQAAAAAFAAECAAYDBWj/xAA  
A2EAABAwIEBAUCBQMFAQAAAAAABAIDBBEFEiExBhNBUSlJMmFxFlEzQpGh8CSx0QdSweHxJf/  
EABkBAQADAQEAAAAAAAAAAAAAAAAABAwQCBf/EACMRAQEAAglCAwACAwAAAAAAAAAABAHE  
DMRIhBCJBE1EUMkL/2gAMAwEAAhEDEQA/ABcInVLvIX6QeaFQy/1Dj7oISDzQuHY9CPLCP8LjzHI  
DHPGFoOFvU4qz8V/rVP0ahDnZqoNHRFpvQgJd/XH4RIsPw0NqNapqJA3YqMjb1APVAYpRaILhiZt  
B91Zh0jb8Kpih8oD3XN6louPIINVHxlvNpEUfQj5gVLT3i9Cp1bruVuP0KnUAufoox7dVo+HR5CNO3  
QrAG5aYlo5aj0piBLKkE6JJoUkwToIHdSURuU6B0ySSBJJlEmITpFSOdk6eySleBH8Y/Kv0n4oVINvM  
fIX6QeYFXxcGwfKC0XCgu0n3WdH4YC0fCosy3urPxx+tTMPB9ln3HLXFaGQEs+yzk7SMQsJGYruYq  
2QmqCvU7fLXlglfUhrQQZ6B8Khixs1g90Qb6QhuL6ujHuovSYoznykFn1kCL1GkfyqlLRipc6R7wl2  
HX3VOM2srrR0r5hYCw7IWG4dTxc3mczIL5bdVeg5bR4BZttAmhayLPKbAvO3ZTJo7dKWeFrCsQ8  
lJv8AKsR1Ect8jrgdUjRkhsiADBvTqqzcSbM4MvywNdrpOWS6qf4rZuNIDtZSBQOmxF/pkAFuoPRX  
Yqxr2Zm6gGzu4VklzV3CwQCc7KEbg5uZpBHdSJ0XTIEJ0wToEkkkgSSSSBJJlIGSTJKR4NGfNKv0er0O  
i9d0RofWuHYyPQFqFWjl391IM1mhazhRwMI+V3+K2ncPB9kCnZ/wDQCOul5aCSuH1wuUgKxaR  
qs03qjforTCMipRu/rFAKjZDMT1IYETCHVwL6ljQLqL06nam+HmljAN913q3wUcQh5eh1JAVkMZD  
G6Rx23QPiiVjpKV7n2uWF5HYKrk+OO1mE8stVKTEqd92xyAO6aqnUYINKLMA4lq8spMaqMUrQ+  
kkZl5oY1hec5vexy29Om9165w1hNZDTmTEDGHvHpBvp7qvHHkva/L+OdKFTVu5DGVF2Ho4rYlj  
zsPnNoZpSAL8qJzgL7XXqlXhMFXBypBZ7hAXWZxn/T/DquVtTDVVEFQwhws4ZXEX3Fj3Kn/Hly3lO  
ifl1jqdhnB/EFLiwPlc2ztHty5XNPuEea9sda4sdYublT17fz5WGruHJ+H5xUULHxTBxfmzXElzc69f2  
WpoaxldSRVjLNvbMOrXHf+fKrl8bqLMpMtURpcQnjhLoQQ+N9nxP2+x7Huj+G4hFiNMJYbg/mad  
2nsVkkT7onOka6zXts7qPldMcrXQ1zXiwbNo8A3BPdThy3G+3GfF5Y7jbBOoxm4upLYxkkkkkgSSSS  
BJJlkcSSSSQeBRO8ajUXqQyH1I3g0fNna33XLtKaYtIAWs4TDzC1wO6jJg0T4GnKMyIYPTGlaGW0Gys  
OrHCHltiUfSeZn6q41xsLpF100OUYfa2qUdKRJn1XdpU2yAbobdhcNACoTtebjc9eyuc0WQniCrdT
```


0D3Ri8jtGj3Kqz9R3hPKqmKYm1rDleA1ugJWY/wBQs8IMWtBP1LGsDhv7oVj2ISCeClkkvb8Rw6Fa
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WbazEeNsOoWlxIYYmnxP3CebGXSM59PG6drrWZcC99rX0K8RpcNxONjKCSgqpYnOLWsqWFrT9/
7L1GIH0WERUZ5edjAMrfjYd1by3UcYY42jzqqmxOkcx4c07OZILOjPQ/qS5RxuoaiPPngct8gFvnNf8
Add6LE45splcHXdyPD9t/IPi0TjO2R7/F4c1trjT9LWWO5W9tMx0IS1DJ2CxDo3DUHoe/86oTSRz0O
PRtZL5TnjNGdvkKhhVa6GqmY4FzWSEuA6sd1H86rW0VAKqrp5C4Sagtf3HVcS/bVWZSSbbiL0hTU
YxZoUI6U6eVeySSSUhwmTpkCSKSSBkk9kkHz9FfNdaHh42qmn3WcjIubI/gDvPBsuXV6eiRnPG0K
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m9tLryzi/GhPXijjMYacxPURjz57umv4+H/TOYIUNEssryXZm9el9F69wkGw8MwNjsXZNwSQTBud
147UASwzaAhut+ui9G4L4joZaVIG6TI9sTWRh2gPe3uoxrrPFV4txN6SEwRuvI7xG+ul7ErF4VXyS42
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9pcwOdt08e5/Rej2Gc2yt4OOW+VU/I5PGeMd27BOmbSnWxiJJJA6ZOmQJJOmQLVJJJB4bUYdJC
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XRo0UuVwSjnPBC4BODlCXOraZqWRrT4rWC8hx2hFPiM0xBAbdgB9l66x/it0KwvG+B1V31rDmgB
LnNbuFk5+O78o2/F5Zq41gqN5aSjr5HtlOnf/ANRDA8IfNLBE8OyzvMbXNPpd+Urg2CWthhja4Eu
LPFpck9PsvTclolcJwlpLAcjcwLhcgjZcYzyuvxZnfGb/WRxiWfDj4cPfjzGvzNkaHZnNsNTr+qqUNWKaj
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N13GmwOurcSlmFe8GIN8OlRlPibG8kudM7y9Wku2tqsbX4rPQ1cnLq5Zomuyx1sT7tmNgQbftou
FRVW8lQ2J8tTA+oN3QVLvDlt6g7/hdZfGuOO9uMeSZZa07jFMTmqZY46s8t9wcrQNL97afZajCKIUI
JE6Y2dNIPkgf8LM4ZTsgqmSVcgkldZrGDQlbGok+ppm3GUtZzAP9vYfoF5XJ29HCajYYRhgwysKaC
W8ThcAjcO3/dH2OzSbhA8DzSYXjISQNPYEInExZH7rfwyePp53Nb5exlBjBjrhTVqok6iE91AkmSS
QOmSSQJJJBIXXe+yv08eVoCrUsdznRBjbKxykG6Ji1SSKgcY0X2UmtHZNfxLoEDZU2RT0TWQV8Inp
VFKyojMUozRncd10l0cCug1aESct4dwyoCTNphmGwvoPsumMgR4dIBZoOiLWQniVhNNH22I+VX
lJj6d4W5Ze6wbKIRTSPizX2vshr80ldUsc7MBYDsEfqSI6cMDsx0FkClaaeQyAkEXuLbrjvVbtHipPqJo
6d7jYmwznQfC0OM4YHYXenka3R51IQjDmCSVKsoylrb2v3Wvbl2PCop2eYH6AHqrsV2qz9Wa
YSnoXwMDiWAW3l2RnQZ/E4EtLra/mXOSN1Q9+cWbm0aEVw2ERsHQNTosXi1XjpsHORoj/2tCK
goHhUhErids2iOALf8e/R5/PPs6MeuofdV7WTg2V2lK1unC4scurTdQJjk6ShJk5GiZArpJJIA0DcrbB
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TbdZrBI89QHuiDRdaUEELR8eeqy/lv2TBBSUAbFTutDOcKbXWUAko0O4cCpjVVGt3UmvsosTt3U
VEyBOHBQlJmIdJAlaugXjpUwVa5SKg4myldRkPhUBoe66FqhF6V16KarpwU1krlHNrFcobB5C6Hb
RcD4Zwgs2QniRhFGJmR53MPTce6LtNyBa6rVucNfYXadwq+XrS3i728yr657pA693EdrapQYIO2Nr
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CVoKLzWZWts3oVlztacetNrgEPgc8nTayLN03QrhyMsobPcS7NuihF/lauGawjDzXeddcARumHhU
WkjRScLhWq0gUrrjmlSpB4KDqCmuo5k90Cc4qTJLfcNEFRLrbILgfokq4kbbVJRoUW3zLoFxa5dAV
2RK6jKbNTgrnM7Vo91A7sOgU7qA0UkD3SumTKBO64z6PYfdTC6Rxh516apbpOtrDAGRlxA7oa+t
ZzSxxHi3VmvqDHRyPaNWhYzFXyQvE2cnMQbLNYZe9tPFhLATjyN7ZnkNDXP1BHULLYfJWAczw

mNvhi7Lf8AFzPqDA+waXM1P2WMZCWI7A7qqr3pdPcXWYvKyjNNG8tuNwVScyWpeTI4kfmcVCkLhXOjeQWjZSxKqdHTOa0AM7J7pqJyR2lg5di23XZabC3EOHMFraDMNCgGFRSMooucWOMhu0j8oWro4WPgjkdct0s1RfUI02EeGnGZEq/RDqEt+mY0DQq0CtnHNYSMXJ/tXe9/ITa8bLgCmdsV24d3C65g5Xa7LnHMSLdk7jog7fCSqiUsNtwV1D9EEyoOCWZRJUijv3SUSU6G3//Z" alt="img of a dog">

<p class="sample" id="text"> This paragraph is under “sample” class. </p>

Question 2 Submitted Apr 11th 2023 at 5:33:10 pm

Copy/paste your updated <p> element. The element's class attribute should be "sample" .

<p class="sample"> This paragraph is under “sample” class. </p>

5. Change the style of a html document using a CSS stylesheet

In your `<body>` of `exercice1.html`, add all the text provided below. (Update the text to reflect yourself or a potential student).

```
<div>
  <h1>John Smith</h1>
  <p> Hello! I'm a fourth-year undergraduate at UC San Diego studying Data Science. I have a stro
  <p>During my time at UCSD, I've gained extensive experience in programming languages such as Py
<p>Find me on my socials!</p>
  <ul>
    <li><a href="">Github</a></li>
    <li><a href="">LinkedIn</a></li>
    <li>...</li>
  </ul>
</div>
<p> contact me at jsmith@ucsd.edu </p>
```

Finish the following two tasks.

Question 1 *Submitted Apr 11th 2023 at 5:39:46 pm*

Create an empty CSS file and save it as "**style.css**". Add a line of code that attaches a separate (i.e. external) stylesheet file, `style.css`, to `exercice1.html`. You may refer to today's lecture slide or [tutorial on how to add CSS](#) for more details as well.

Copy/paste the added line of code.

```
<link rel="stylesheet" href="styles.css">
```

Question 2 *Submitted Apr 11th 2023 at 5:42:38 pm*

Write the css code that changes the style of **all** `<p>` elements **inside** the `<div>` element. Specifically you want to:

- change the color of the font to be red
- add a 5px-wide orange solid borderline around each p region ([borders in CSS](#), and [border width in CSS](#)).



Hint: You can use [CSS selectors](#) to select all `<p>` elements inside `<div>`.

Copy/paste the block of your CSS code that does the jobs above.

As a bonus, try to add extra CSS to make the page look like a nice personal webpage. Maybe you can center the webpage content, add some background color, style certain components, or change the font-family.

```
div p {  
  
  color: red;  
  
  border: 5px solid orange;  
  
}
```

Upload Your Files

Question 1 Submitted Apr 11th 2023 at 5:43:42 pm

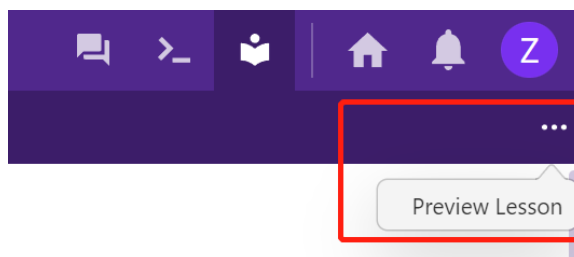
Upload the screenshot of your resulting webpage. You will need to click the "image" button to upload a file into the Answer box.



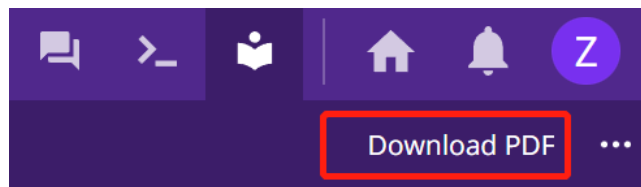
Question 2

You need to download the PDF of lecture exercise 1 and upload it with other files to the Gradescope. Follow the instructions on how to download PDF file:

1. Click on the ellipsis button and the Preview Lesson.



2. After that, click on the Download PDF button.



☐ PDF downloaded!

☐ Haven't done yet!

Question 3

Upload the following files to Gradescope. You need to make **a group submission, adding all present members in your team**, so that the present members get the participation credit.

Files to upload:

- exercise1.html
- style.css
- PDF you downloaded as Q2

☐ Our team uploaded the the files on gradescope!

☐ Oops, our team did not upload the files on gradescope!

Feedback

Question

Was the activity today clear? If not, please share how the course can improve it. Your comments will help us design future lab content (and also future students).

No response