

Millersville University

Lombardo College of Business
Department of Management and Marketing

HTML Lab – Part 4 – eat1.html (2025)

In this exercise, you will create one webpage by following the directions provided. You will be building on this example all semester.

Part 4

Where should I take her to eat?



Create a new document in VS Code, eat1.html. Save it to your web folder.

Insert the following to a blank HTML file (or use Emmet ! enter then change title):

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Where Should We Eat</title>
</head>
<body>

</body>
</html>
```

Next, we will create a set of questions to help up answer the question of where we should go out to eat. We will add to this over the semester as new material is learned.

<div> tag

The div tag is a common way to separate content when we don't know what kind of formatting we want. It is a generic container. We will insert many div tags in HTML development. Many times, these tags will be named so we can refer to them later in CSS and JavaScript.

A div tag starts off by not showing anything. Think of it like an invisible container. You must put something in it to see anything. Imagine if you build a house and just build 1 wall. Your house is 0 sq. feet, even though you might have a 30-foot wall.

Create a div tag at the beginning of the body. Then make your body look like the following by adding another div with some content.

Try this Emmet macro (if it doesn't work, delete the last } and retype } to get Emmet to understand you are writing a macro:

```
div{Where should we Eat?<br>}+div{A website that helps you decide
where you should eat when you ask your girlfriend "So what do you
want to eat?" and she responds, "I don't care."}
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Where Should We Eat</title>
</head>
```

```
<body>
  <div>Where should we Eat?<br></div>
  <div>A website that helps you decide where you should eat when you ask your
girlfriend "So what do you want to eat?" and she responds, "I don't care."</div>
</body>
</html>
```

Alternatively, you can copy the Emmet macro, go to the last character and hit Control + Space and then enter.

Remove the `
` at the end of Where should we eat? The div tag automatically breaks at the start of the next div tag. This can be overridden later in CSS.

A div tag is like a box. We can put things inside the box or after the box. It doesn't make any difference now, but eventually this becomes very important. In this last case, there is a box and then after that there is another box. Label the boxes so later use.

```
<body>
  <div id="title">Where should we Eat?</div>
  <div id="info">A website that helps you decide where you should eat when you
ask your girlfriend "So what do you want to eat?" and she responds, "I don't
care."</div>
</body>
```

The id must be unique on each page. You can't have the same id for two different divs. We have the argument class for this. The div with the id of title, will be called the title div in this lab. The div with the id of info will be the info div.

If we use Emmet, instead of using div in the macro, we can use either `#` for a id or a `.` for a class. Delete everything in body and recreate the code with the following macro.

```
#title{Where should we Eat?}+#info{A website that helps you decide
where you should eat when you ask your girlfriend "So what do you
want to eat?" and she responds, "I don't care."}
```

Now create our first question immediately after the info div. Put some text then two labels like as follows.

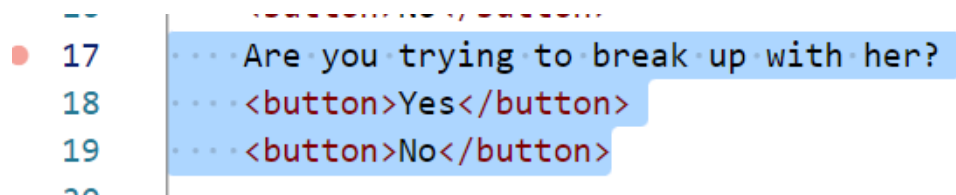
```
div{Has she had Chipotle in the last 5 days?}>button{Yes}+button{No}
```

```
<div>
  Has she had Chipotle in the last 5 days?
  <button>Yes</button>
  <button>No</button>
</div>
```

Add the following after the No button.

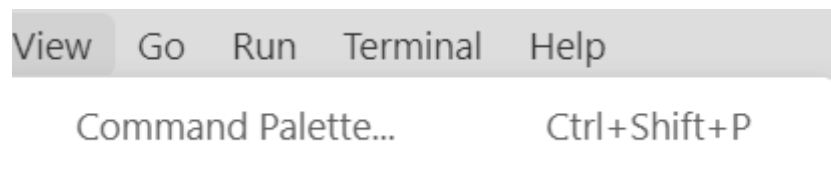
```
Are you trying to break up with her?  
<button>Yes</button>  
<button>No</button>
```

Preview the results. Notice how it runs together without a break? Well, let's put the second question in a div tag. Try using a different technique to do this. Notice we need to wrap the div tag around the breakup question. We can use Emmet to help (or there are extensions to also do this). First select the whole question with the two buttons.

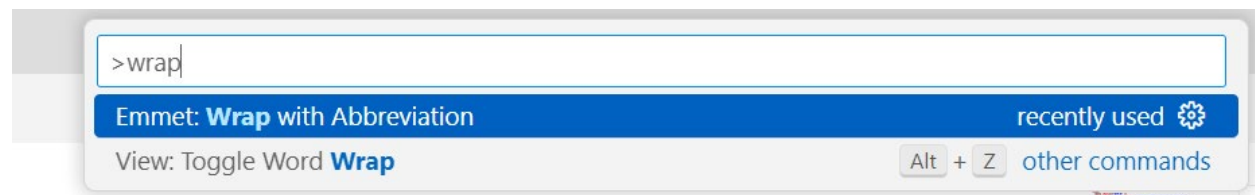


```
17 Are you trying to break up with her?  
18 <button>Yes</button>  
19 <button>No</button>
```

Next with the text selected go up to the Command Palette (View...Command Palette)



Now type wrap. Then select Emmet: Wrap with Abbreviation



For this case we just need a div tag so type div.

```
<div>  
  Are you trying to break up with her?  
  <button>Yes</button>  
  <button>No</button>  
</div>
```

This is very handy and something that should be memorized how to wrap code around other code.

Preview and you will see it is much better. It might seem weird, that two questions are showing up. We will eventually hide all but the first question and show the correct questions as they are needed. But we need to create everything first and then worry about making it interactive.

Radio Button

Add the following for the next question. The Emmet macro is not worth using for this in this example.

```
<div id="datequestion">
  What day of the week is it?
  <div>Monday-Wednesday<input type="radio" /></div>
  <div>Thursday-Friday<input type="radio" /></div>
  <div>Saturday-Sunday<input type="radio" /></div>
</div>
```

Save and run this webpage. Notice the radio buttons are not linked to each other yet. What we want to do is have the browser treat all three buttons as a group. So, if you click on Monday-Wednesday then on Saturday-Sunday, the Monday-Wednesday button get unselected. We do this by putting the buttons in a name tag with the same names. Change the inputs to include the name argument.

```
<div>Monday-Wednesday<input type="radio" name="dateq" /></div>
<div>Thursday-Friday<input type="radio" name="dateq" /></div>
<div>Saturday-Sunday<input type="radio" name="dateq" /></div>
```

Now radio buttons work as desired. Add the next question.

```
#olivegarden{How does she feel about Olive Garden?}>button{Hates
it}>button{It's ok}
```

```
<div id="olivegarden">How does she feel about Olive Garden?</div>
<button>Hates it</button>
<button>It's ok</button>
```

Add the next two questions.

```
#bloomingonion{Does she like blooming onions?}>button{Yes}>button{No}
```

```
<div id="bloomingonion">
  Does she like blooming onions?<button>Yes</button><button>No</button>
</div>
```

```
#weekgoing{How's her week going?}>button{Horribly}>button{Decently}
```

```
<div id="weekgoing">
```

```
    How's her week going?<button>Horribly</button><button>Decently</button>
</div>
```

Next add the answers.

```
#chipotle{Chipotle}+#sonic{Sonic}+#outback{Outback}+#chilli{Chilli's}+#k
fc{KFC}+#panera{Panera}+#chocolate{Anywhere with chocolate or alcohol}
```

```
<div id="chipotle">Chipotle</div>
<div id="sonic">Sonic</div>
<div id="outback">Outback</div>
<div id="chilli">Chilli's</div>
<div id="kfc">KFC</div>
<div id="panera">Panera</div>
<div id="chocolate">Anywhere with chocolate or alcohol</div>
```

We now have developed the bones of this website.

Validating your webpage

Go to validator.w3.org to check your webpage. Click on Validate by Direct Input. Copy your completed document in Brackets and paste it into the validator. Click on the Check button.

The validator does most of the grading in the course. If you can run your webpages through the validator with no errors or warnings, then you pretty much mastered the material for the HTML portion of the class.

Try adding an extension, W3C Web Validator into VS Code. Then you can just click the W3C validation button at the bottom of the interface to check the code.

If you view the webpage, you should get the following:

Where Should We Eat ×

← → ↺ http://127.0.0.1:3000/HTML Lab/Lab 4/eat1.html

Where should we Eat?

A website that helps you decide where you should eat when you ask your girlfriend "So what do you want to eat?" and she responds, "I don't care."

Has she had Chipotle in the last 5 days?

Are you trying to break up with her?

What day of the week is it?

Monday-Wednesday ☐

Thursday-Friday ☐

Saturday-Sunday ☐

How does she feel about Olive Garden?

Does she like blooming onions?

How's her week going?

Chipotle

Sonic

Outback

Chilli's

KFC

Panera

Anywhere with chocolate or alcohol

Semantic HTML

So far, we used `<div>` tags to separate content. It is expected that instead of just using `<div>` tags, we use HTML 5 Semantic tags in place of `<div>` tag where possible. This allows automated tools to read and index your website better. Using a Semantic tag in place of a `<div>` will not make any difference in terms of functionality, but it just improves readability.

`<header>` tag

Start with the `<header>` tag. The `<header>` tag, (not the `<head>` tag) is usually used to include a page's title and navigation.

Replace the code:

```
<div id="title">Where should we Eat?</div>
<div id="info">
  A website that helps you decide where you should eat when you ask your
  girlfriend "So what do you want to eat?" and she responds, "I don't care."
</div>
```

Use this new Semantic HTML:

```
<header>
  <div id="title">Where Should We Eat?</div>
  <div id="info">
    A website that helps you decide where to eat when you ask your
    girlfriend, "So, what do you want to eat?" and she responds, "I don't
    care."
  </div>
```



```
</header>
```

The new Emmet to write this code would be:

```
header>#title{Where should we Eat?}+ #info{A website that helps you  
decide where you should eat when you ask your girlfriend "So what  
do you want to eat?" and she responds, "I don't care."}
```

<main> tag

The main tag is a semantic tag to show your actual content. The main tag can only be used **one time** in a HTML document to be valid.

The main tag needs to be wrapped around the rest of the webpage content. Select the following code:

```
<div>  
  Has she had Chipotle in the last 5 days?<button>Yes</button>  
  <button>No</button>  
</div>  
<div>  
  Are you trying to break up with her?  
  <button>Yes</button>  
  <button>No</button>  
</div>  
  
<div id="datequestion">  
  What day of the week is it?  
  <div>Monday-Wednesday<input type="radio" name="dateq" /></div>  
  <div>Thursday-Friday<input type="radio" name="dateq" /></div>  
  <div>Saturday-Sunday<input type="radio" name="dateq" /></div>  
</div>  
  
<div id="olivegarden">How does she feel about Olive Garden?</div>  
<button>Hates it</button><button>It's ok</button>  
<div id="bloomingonion">  
  Does she like blooming onions?<button>Yes</button><button>No</button>  
</div>  
  
<div id="weekgoing">  
  How's her week going?<button>Horribly</button><button>Decently</button>  
</div>  
  
<div id="chipotle">Chipotle</div>  
<div id="sonic">Sonic</div>  
<div id="outback">Outback</div>
```

```
<div id="chilli">Chilli's</div>
<div id="kfc">KFC</div>
<div id="panera">Panera</div>
<div id="chocolate">Anywhere with chocolate or alcohol</div>
```

Now, use the Emmet macro to wrap a main tag around the selected code. Alternatively, you can manually add a `<main>` at the beginning and a `</main>` at the end of the code.

If completed correctly, the following should be your `eat1.html` code at this point:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Where Should We Eat</title>
  </head>
  <body>
    <header>
      <div id="title">Where should we Eat?</div>
      <div id="info">
        A website that helps you decide where you should eat when you ask your
        girlfriend "So what do you want to eat?" and she responds, "I don't
        care."
      </div>
    </header>
    <main>
      <div>
        Has she had Chipotle in the last 5 days?<button>Yes</button>
        <button>No</button>
      </div>
      <div>
        Are you trying to break up with her?
        <button>Yes</button>
        <button>No</button>
      </div>
      <div id="datequestion">
        What day of the week is it?
        <div>Monday-Wednesday<input type="radio" name="dateq" /></div>
        <div>Thursday-Friday<input type="radio" name="dateq" /></div>
        <div>Saturday-Sunday<input type="radio" name="dateq" /></div>
      </div>
      <div id="olivegarden">How does she feel about Olive Garden?</div>
      <button>Hates it</button><button>It's ok</button>
      <div id="bloomingonion">
```

```

    Does she like blooming onions?<button>Yes</button><button>No</button>
  </div>
  <div id="weekgoing">
    How's her week going?<button>Horribly</button><button>Decently</button>
  </div>
  <div id="chipotle">Chipotle</div>
  <div id="sonic">Sonic</div>
  <div id="outback">Outback</div>
  <div id="chilli">Chilli's</div>
  <div id="kfc">KFC</div>
  <div id="panera">Panera</div>
  <div id="chocolate">Anywhere with chocolate or alcohol</div>
</main>
</body>
</html>

```

You can preview the code to see there are no visual changes to the webpage. It will be easier to add CSS and JavaScript to the code as more semantic HTML is used.

<section> tag

Replace the <div> tags for questions with <section>. If you have the auto rename tag installed from the last lab this should be straightforward. Adjust your code so everything is consistent as the Emmet macros didn't create the same structure for every question:

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Where Should We Eat</title>
  </head>
  <body>
    <header>
      <div id="title">Where should we Eat?</div>
      <div id="info">
        A website that helps you decide where you should eat when you ask your
        girlfriend "So what do you want to eat?" and she responds, "I don't
        care."
      </div>
    </header>

    <main>
      <section>
        Has she had Chipotle in the last 5 days?
        <button>Yes</button>
      </section>
    </main>
  </body>
</html>

```

```

    <button>No</button>
</section>

<section>
    Are you trying to break up with her?
    <button>Yes</button>
    <button>No</button>
</section>

<section id="datequestion">
    What day of the week is it?
    <div>Monday-Wednesday<input type="radio" name="dateq" /></div>
    <div>Thursday-Friday<input type="radio" name="dateq" /></div>
    <div>Saturday-Sunday<input type="radio" name="dateq" /></div>
</section>

<section id="olivegarden">
    How does she feel about Olive Garden?
    <button>Hates it</button>
    <button>It's ok</button>
</section>

<section id="bloomingonion">
    Does she like blooming onions?
    <button>Yes</button>
    <button>No</button>
</section>

<section id="weekgoing">
    How's her week going?
    <button>Horribly</button>
    <button>Decently</button>
</section>

<div id="chipotle">Chipotle</div>
<div id="sonic">Sonic</div>
<div id="outback">Outback</div>
<div id="chilli">Chilli's</div>
<div id="kfc">KFC</div>
<div id="panera">Panera</div>
<div id="chocolate">Anywhere with chocolate or alcohol</div>
</main>
</body>
</html>

```

If we run this code through the W3C validator there are some new infos:

```
<div id="title">Where should we Eat?</div>
<h2>
  Section lacks heading. Consider using "h2"-<h6" elements to add identifying headings to all sections, or
  else use a "div" element instead for any cases where no heading is needed. info(w3C_validation)

  The section element represents a generic section of a document or application. A section, in this context, is a thematic grouping of
  content. Each section should be identified, typically by including a heading ( h1- h6 element) as a child of the section element.
</h2>
MDN Reference
View Problem (Alt+F8) Quick Fix... (Ctrl+.)
<section>
  Has she had Chipotle in the last 5 days?
  <button>Yes</button>
  <button>No</button>
</section>
```

The validator is suggesting h2-h6 elements be used in all sections or otherwise use a div. Since there was a div to start with instead of going back to that, wrap `<h2>` tags around each question text. Also add a `<h1>` around the Where Should we Eat? content.

Validator still complains about the trailing slashes in the head, so remove those for now.

Now move the to date question and get rid of the trailing slash and move the content inside the input tag.

```
<section id="datequestion">
  <h2>What day of the week is it?</h2>
  <div><input type="radio" name="dateq" >Monday-Wednesday</div>
  <div><input type="radio" name="dateq" >Thursday-Friday</div>
  <div><input type="radio" name="dateq" >Saturday-Sunday</div>
</section>
```

Validate your document and you should have a fully validated document with no errors, warnings, or infos.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Where Should We Eat</title>
  </head>
  <body>
    <header>
      <div id="title"><h1>Where should we Eat?</h1></div>
      <div id="info">
        A website that helps you decide where you should eat when you ask your
        girlfriend "So what do you want to eat?" and she responds, "I don't
```

```

    care."
  </div>
</header>

<main>
  <section>
    <h2>Has she had Chipotle in the last 5 days?</h2>
    <button>Yes</button>
    <button>No</button>
  </section>

  <section>
    <h2>Are you trying to break up with her?</h2>
    <button>Yes</button>
    <button>No</button>
  </section>

  <section id="datequestion">
    <h2>What day of the week is it?</h2>
    <div><input type="radio" name="dateq" >Monday-Wednesday</div>
    <div><input type="radio" name="dateq" >Thursday-Friday</div>
    <div><input type="radio" name="dateq" >Saturday-Sunday</div>
  </section>

  <section id="olivegarden">
    <h2>How does she feel about Olive Garden?</h2>
    <button>Hates it</button>
    <button>It's ok</button>
  </section>

  <section id="bloomingonion">
    <h2>Does she like blooming onions?</h2>
    <button>Yes</button>
    <button>No</button>
  </section>

  <section id="weekgoing">
    <h2>How's her week going?</h2>
    <button>Horribly</button>
    <button>Decently</button>
  </section>

  <div id="chipotle">Chipotle</div>
  <div id="sonic">Sonic</div>
  <div id="outback">Outback</div>

```

```
<div id="chilli">Chilli's</div>
<div id="kfc">KFC</div>
<div id="panera">Panera</div>
<div id="chocolate">Anywhere with chocolate or alcohol</div>
</main>
</body>
</html>
```

The page should render as follows:

Where should we Eat?

A website that helps you decide where you should eat when you ask your girlfriend "So what do you want to eat?" and she responds, "I don't care."

Has she had Chipotle in the last 5 days?

Are you trying to break up with her?

What day of the week is it?

☐ Monday-Wednesday☐ Thursday-Friday☐ Saturday-Sunday

How does she feel about Olive Garden?

Does she like blooming onions?

How's her week going?

Chipotle

Sonic

Outback

Chilli's

KFC

Panera

Anywhere with chocolate or alcohol

Submit your file (eat1.html) to the drop box for HTML Lab – Part 4.