

Full Stack Software Development

Course: Introduction to Web Development

Lecture On: HTML Elements

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In the previous class, we covered...

- What is front-end web development?
- How to create websites and web applications?
- What are the three ingredients of a website?
- Introduction to the world of HTML

Poll 1 (15 Sec)

Fill in the blanks.

 is a/an ____ element and <div> is a/an ____ element.

1. block, inline
2. inline, block
3. block, block
4. inline, inline

Poll 1 (Answer)

Fill in the blanks.

 is a/an ____ element and <div> is a/an ____ element.

1. block, inline
2. **inline, block**
3. block, block
4. inline, inline

Poll 2 (15 Sec)

Which of the following tags is/are empty or self closing tags?
(Note: Multiple option may be correct)

1.
2.
3. <p>
4.

Poll 2(Answer)

Which of the following tags is/are empty tags?
(Note: Multiple option may be correct)

1.
2.
3. <p>
4.

Poll 3(15 Sec)

Which of the following is/are properties of <div>?
(Note: Multiple option may be correct)

1. It is used to group HTML elements.
2. It is used to create divisions on a web page.
3. It is not mandatory to close the <div> tag.
4. It behaves like a container.

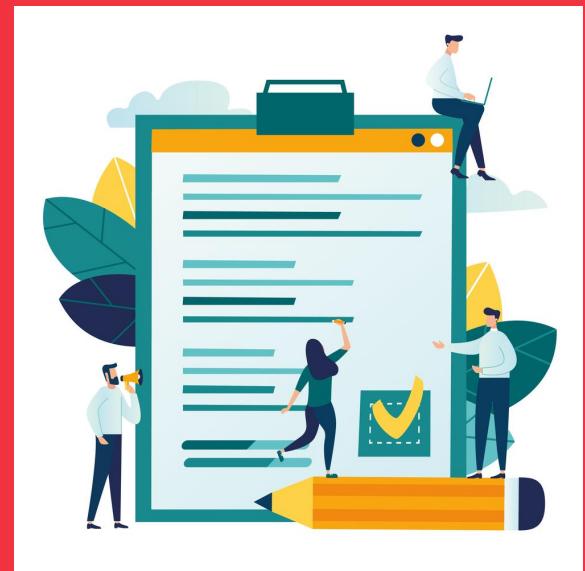
Poll 4 (Answer)

Which of the following is/are properties of <div>?
(Note: Multiple option may be correct)

- 1. It is used to group HTML elements.**
- 2. It is used to create divisions on a web page.**
- 3. It is not mandatory to close the <div> tag.**
- 4. It behaves like a container.**

Today's Agenda

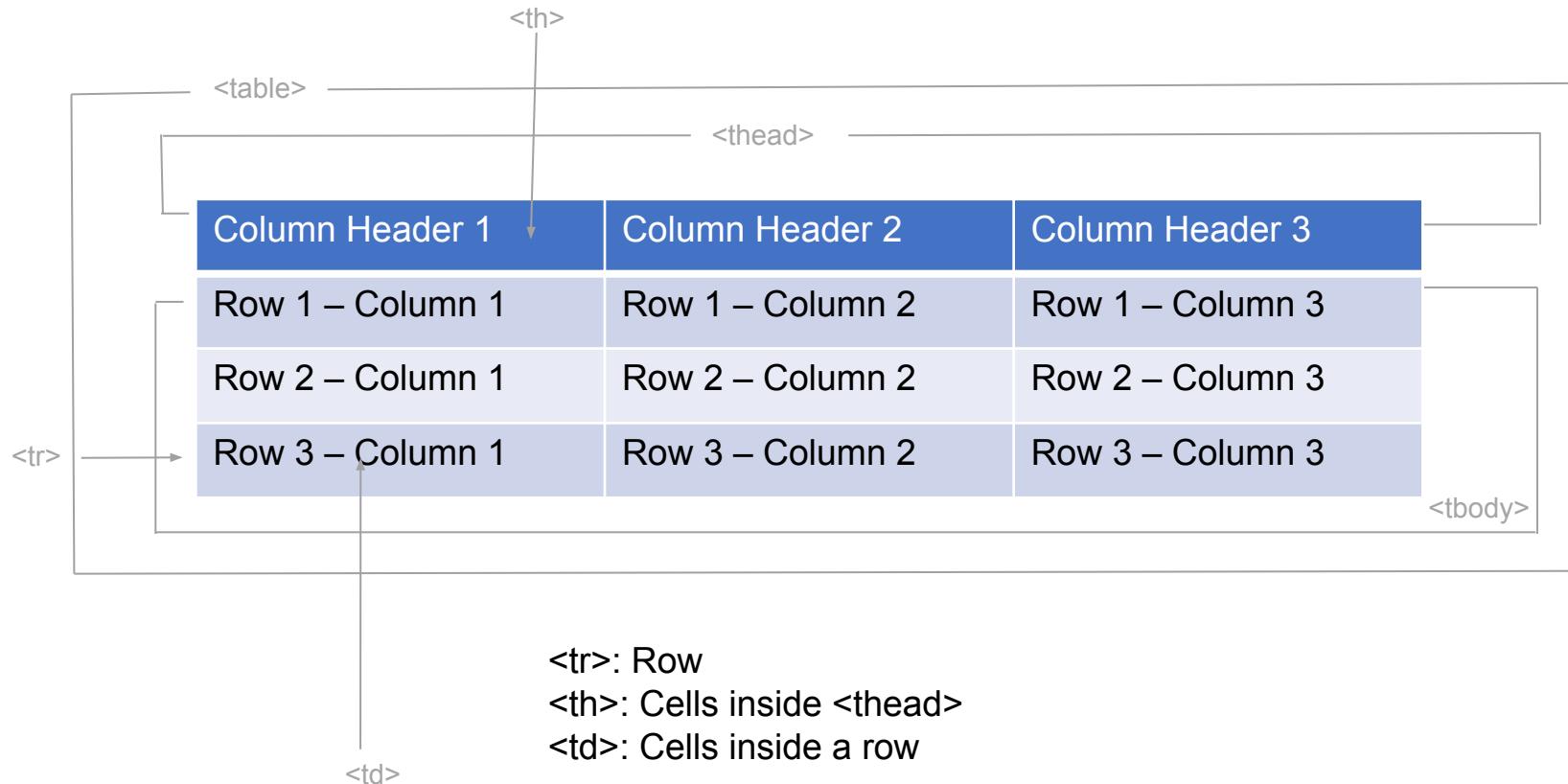
- How to Create Tables in HTML?
- How to Create Lists in HTML?
- How to Create a Dropdown List in HTML?
- How to Show YouTube Videos on Your Website?
- Begin Developing the Recipes Website Project



Process Page

	Column Title	Column Title	Column Title	Column Title
First Row	250.05	45	230	95.65
Second Row	320	784.65	25	370
Third Row	1560	1570	2875	876.15
Fourth Row	895.25	375	485	685
Fifth Row	85	125	375	65
Sixth Row	275.7	570.35	85.35	185
Total	3386	3470	4075.35	2276.8

Elements of a Table



HTML <table>

```
<body>
    <table align="right">
        <thead>
            <tr>
                <th>Fruit</th>
                <th>Quantity</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td>Apples</td>
                <td>10</td>
            </tr>
            <tr>
                <td>Oranges</td>
                <td>15</td>
            </tr>
        </tbody>
    </table>
</body>
```

HTML <table> - rowspan

```
<table>
  <thead>
    <tr>
      <th>Fruit</th>
      <th>Quantity</th>
      <th>Is healthy?</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Apples</td>
      <td>10</td>
      <td rowspan="2">Healthy</td>
    </tr>
    <tr>
      <td>Oranges</td>
      <td>15</td>
    </tr>
  </tbody>
</table>
```

HTML <table> - colspan

```
<table>
  <thead>
    <tr>
      <th>Fruit</th>
      <th>Quantity</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Apples</td>
      <td>10</td>
    </tr>
    <tr>
      <td>Oranges</td>
      <td>15</td>
    </tr>
    <tr>
      <td colspan="2">25</td>
    </tr>
  </tbody>
</table>
```

Poll 4(15 Sec)

Which of the following tags is used to define a table?

1. <tabular>
2. <table>
3. <th>
4. <tr>

Poll 4(Answer)

Which of the following tags is used to define a table?

1. <tabular>
- 2. <table>**
3. <th>
4. <tr>

Poll 5(15 Sec)

Which of the following tags is used to add a row to a table?

1. <tr></tr>
2. <td></td>
3. <th></th>
4. <table></table>

Poll 5(Answer)

Which of the following tags is used to add a row to a table?

1. `<tr></tr>`
2. `<td></td>`
3. `<th></th>`
4. `<table></table>`

Poll 6(15 Sec)

How do you align a table to the right?

1. <table align="right">
2. <table right>
3. <align="right" table>
4. None of the above

Poll 6(Answer)

How do you align a table to the right?

1. **<table align="right">**
2. <table right>
3. <align="right" table>
4. None of the above

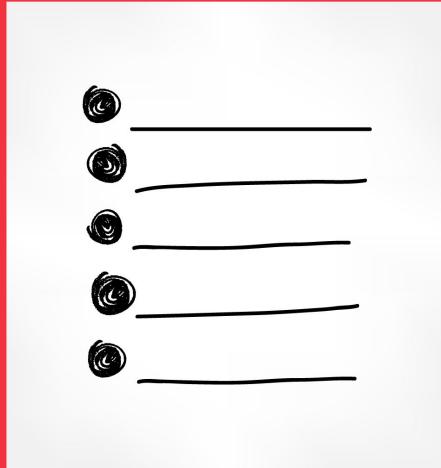
Project Work

(We shall create the structure of all the HTML pages required for our project.)



You can refer to the solution [here](#).

HTML Lists



Types of Lists

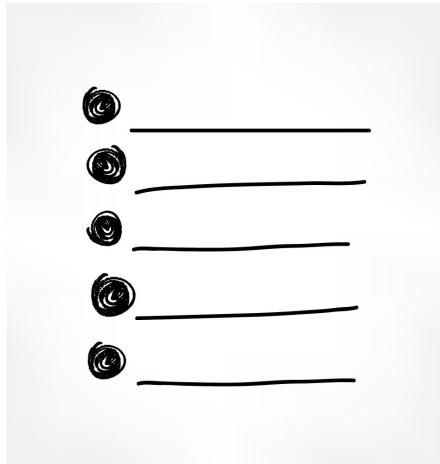
Ordered lists: These are lists with numbers and alphabets.



```
<body>
  <h4>Ordered Lists</h4>
  <ol type="1">
    <li>Flour (95 grams)</li>
    <li>Sugar (2 tbsp)</li>
  </ol>
  <ol type="I">
    <li>Flour (95 grams)</li>
    <li>Sugar (2 tbsp)</li>
  </ol>
  <ol type="i">
    <li>Flour (95 grams)</li>
    <li>Sugar (2 tbsp)</li>
  </ol>
  <ol type="A">
    <li>Flour (95 grams)</li>
    <li>Sugar (2 tbsp)</li>
  </ol>
  <ol type="a">
    <li>Flour (95 grams)</li>
    <li>Sugar (2 tbsp)</li>
  </ol>
</body>
```

Types of Lists

Unordered lists: These are lists with bullets and shapes.



```
<body>
  <h4>Unordered Lists</h4>
  <ul style="list-style-type:disc;">
    <li>Flour (95 grams)</li>
    <li>Sugar (65 grams)</li>
  </ul>
  <ul style="list-style-type:square;">
    <li>Flour (95 grams)</li>
    <li>Sugar (65 grams)</li>
  </ul>
  <ul style="list-style-type:circle;">
    <li>Flour (95 grams)</li>
    <li>Sugar (65 grams)</li>
  </ul>
  <ul style="list-style-type:none;">
    <li>Flour (95 grams)</li>
    <li>Sugar (65 grams)</li>
  </ul>
</body>
```

Types of Lists

Description lists: These are lists that define a list.

```
<body>
  <h4>Description Lists</h4>
  <dl>
    <dt>Flour</dt>
    <dd>- 95 grams</dd>
    <dt>Sugar</dt>
    <dd>- 2 tbsps</dd>
  </dl>
</body>
```

Types of Lists

Nested lists: These are lists that contain another list.

```
<body>
  <h4>Nested Lists</h4>
  <ul>
    <li>Powders</li>
    <ol>
      <li>Cocoa Powder (1/4 cup)</li>
      <li>Baking Powder (2 tbsp)</li>
    </ol>
  </ul>
</body>
```

Project Work

(We shall add HTML Lists to our project wherever needed.)



You can refer to the solution [here](#).

Poll 7(10 Sec)

Which of the following tags is used to create a bulleted list?

1.
2.
3.
4. None of the above

Poll 7(Answer)

Which of the following tags is used to create a bulleted list?

1.
2. ****
3.
4. None of the above

Poll 8(10 Sec)

Which of the following lists can be created using ?

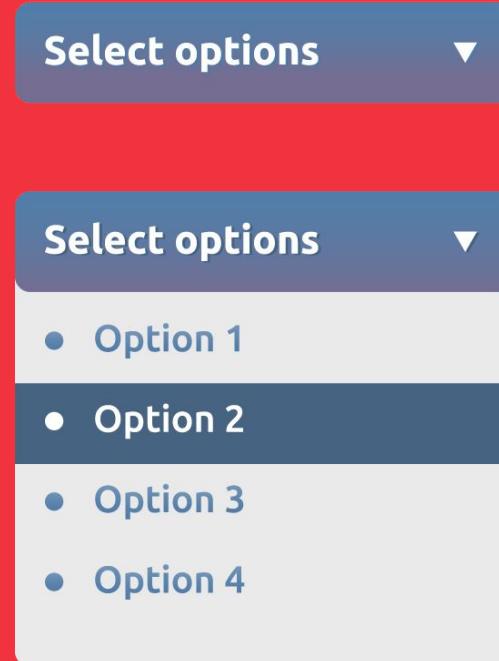
1. Numbered list
2. Bulleted list
3. Ordered list
4. Description list

Poll 8(Answer)

Which of the following lists can be created using ?

- 1. Numbered list**
2. Bulleted list
- 3. Ordered list**
4. Description list

HTML Select



```
<html>
  <head>
    <title> HTML Select </title>
  </head>
  <body>
    <select name="choose">
      <option value="choice1">Choice 1</option>
      <option value="choice2">Choice 2</option>
      <option value="choice3">Choice 3</option>
    </select>
  </body>
</html>
```

Project Work

(We shall add HTML Select to our project wherever needed.)



You can refer to the solution [here](#).

Poll 9(10 Sec)

Which of the following tags is used to create a dropdown list?

1. <list>
2. <dropdown>
3. <select>
4. None of the above

Poll 9(Answer)

Which of the following tags is used to create a dropdown list?

1. <list>
2. <dropdown>
- 3. <select>**
4. None of the above

HTML iFrame

```
<html>
  <head>
    <title>iFrame</title>
  </head>
  <body>
    <!-- iframe embeds another webpage in the current webpage --&gt;
    &lt;iframe src="https://www.google.com/" title="Google"&gt;&lt;/iframe&gt;
  &lt;/body&gt;
&lt;/html&gt;</pre>
```

Poll 10(10 Sec)

Which of the following tags is used to display a web page within another web page?

1. <div>
2.
3. <iframe>
4. None of the above

Poll 10(Answer)

Which of the following tags is used to display a web page within another web page?

1. <div>
2.
- 3. <iframe>**
4. None of the above

Hands-On Exercise (3 min)

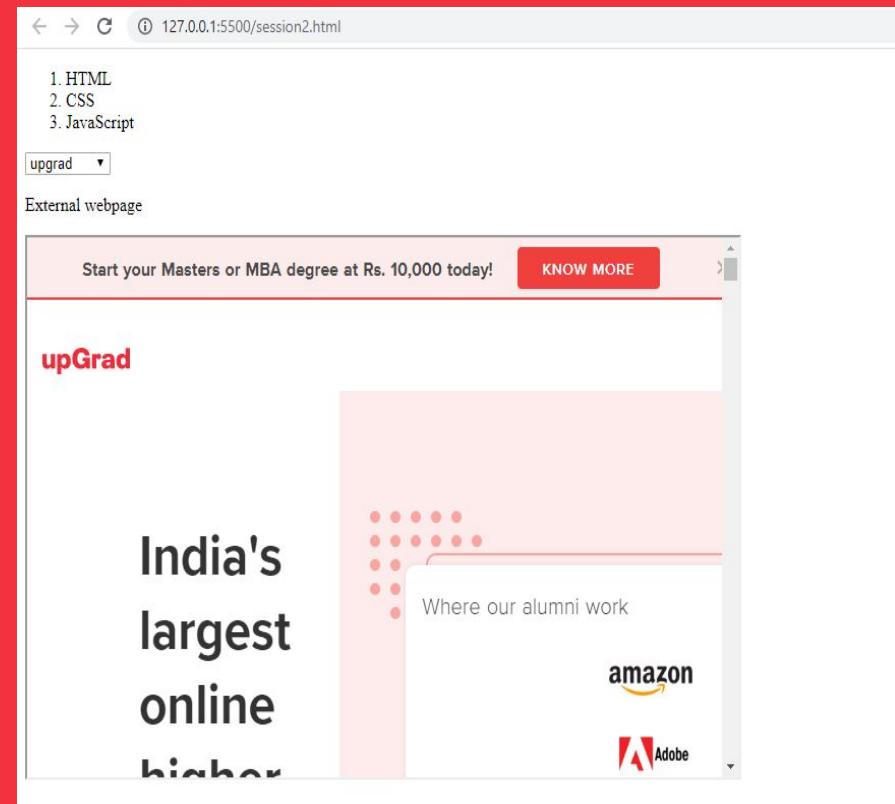
Write a program that consists of the following four <div> tags:

1. The first div with text 'container1' consists of an ordered list with items - HTML, CSS, JavaScript.
2. The second div with text 'container2' consists of a dropdown, which has three options: upgrad, Google and Instagram.
3. The third div with text 'container3' consists of a paragraph with text 'External webpage'.
4. The fourth div with text 'container4' consists of an embedded page, <https://www.upgrad.com/>, of height 450 and width 700.

Your page should look like the one shown in this image.

You can find the stub code [here](#).

You can find the solution [here](#).



Key Takeaways

- You can create HTML tables using `<table>`, `<tr>`, `<td>` and `<th>` tags.
- Lists can be ordered (with numbers or alphabets), unordered (with bullets or shapes) or can be description lists using ``, `` and `<dl>` tags respectively.
- We can also create nested lists.
- You can create dropdown lists using `<select>` and `<option>` tags.
- You can display a web page in another web page using `<iframe>` tag.

Doubt Clearance (5 min)

Tasks to Complete After Today's Session

MCQs

Coding Questions

Project: Checkpoint 2

In the next class, you will learn...

- How to create forms in HTML?
- HTML5



Thank You!