

HTML Tables and Forms

Chapter 5

Chapter 5

1 Introducing
Tables

2 Styling Tables

3 Introducing
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4 Form Control
Elements

5 Table and Form
Accessibility

6 Microformats

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Introducing Tables

Basic Table Structure

The image displays four browser windows illustrating different table layouts:

- Pricing Table:** A table with columns for 'Free', 'Basic', and 'Premium' and rows for 'Upload Space', 'Daily Uploads', 'Total Uploads', 'Social Sharing', 'Analytics', and 'Price per year'.
- Artist Inventory Table:** A table with columns for 'Artist', 'Title', 'Year', and 'Home', showing details for Jacques-Louis David's works.
- Paintings Table:** A table with columns for 'Title', 'Artist', 'Year', and 'Genre', listing various artworks.
- Calendar Table:** A calendar for October 2014, showing days of the week and dates.

Introducing Tables

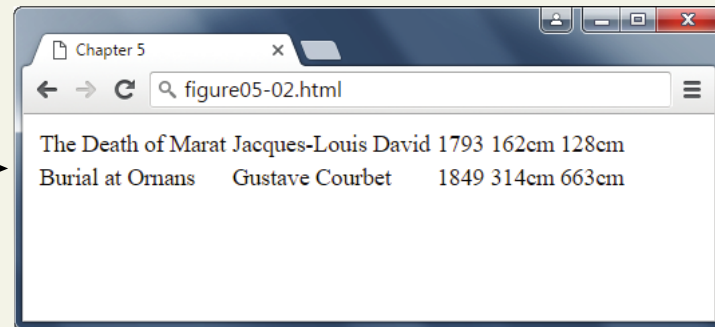
Basic Table Structure

```
<table>
```

The Death of Marat	Jacques-Louis David	1793	162cm	128cm
Burial at Ornans	Gustave Courbet	1849	314cm	663cm

```
</table>
```

```
<table>
  <tr>
    <td>The Death of Marat</td>
    <td>Jacques-Louis David</td>
    <td>1793</td>
    <td>162cm</td>
    <td>128cm</td>
  </tr>
  <tr>
    <td>Burial at Ornans</td>
    <td>Gustave Courbet</td>
    <td>1849</td>
    <td>314cm</td>
    <td>663cm</td>
  </tr>
</table>
```



Introducing Tables

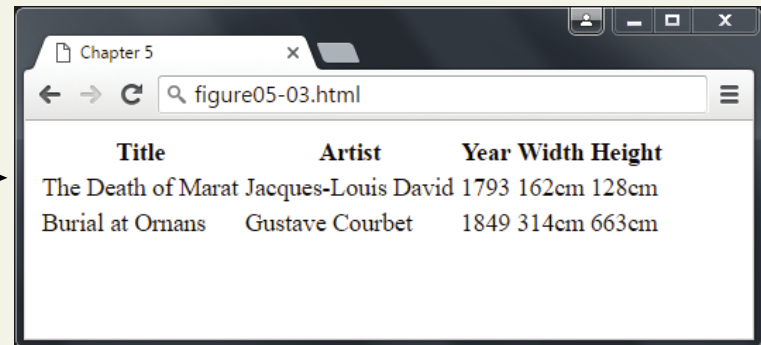
Adding Headings

```
<table>
```

Title	Artist	Year	Width	Height
The Death of Marat	Jacques-Louis David	1793	162cm	128cm
Burial at Ornans	Gustave Courbet	1849	314cm	663cm

```
</table>
```

```
<table>
  <tr>
    <th>Title</th>
    <th>Artist</th>
    <th>Year</th>
    <th>Width</th>
    <th>Height</th>
  </tr>
  <tr>
    <td>The Death of Marat</td>
    <td>Jacques-Louis David</td>
    <td>1793</td>
    <td>162cm</td>
    <td>128cm</td>
  </tr>
  <tr>
    <td>Burial at Ornans</td>
    <td>Gustave Courbet</td>
    <td>1849</td>
    <td>314cm</td>
    <td>663cm</td>
  </tr>
</table>
```



Introducing Tables

Spanning Columns

```
<table>
```

Title	Artist	Year	Size (width x height)	
The Death of Marat	Jacques-Louis David	1793	162cm	128cm
Burial at Ornans	Gustave Courbet	1849	314cm	663cm

```
</table>
```

Notice that this row now only has four cell elements.

```
<table>
<tr>
  <th>Title</th>
  <th>Artist</th>
  <th>Year</th>
  <th colspan="2">Size (width x height)</th>
</tr>
<tr>
  <td>The Death of Marat</td>
  <td>Jacques-Louis David</td>
  <td>1793</td>
  <td>162cm</td>
  <td>128cm</td>
</tr>
...
</table>
```

Introducing Tables

Spanning Rows

`<table>`

Artist	Title	Year
Jacques-Louis David	The Death of Marat	1793
	The Intervention of the Sabine Women	1799
	Napoleon Crossing the Alps	1800

```
<table>
  <tr>
    <th>Title</th>
    <th>Artist</th>
    <th>Year</th>
  </tr>
  <tr>
    <td rowspan="3">Jacques-Louis David</td>
    <td>The Death of Marat</td>
    <td>1793</td>
  </tr>
  <tr>
    <td>The Intervention of the Sabine Women</td>
    <td>1799</td>
  </tr>
  <tr>
    <td>Napoleon Crossing the Alps</td>
    <td>1800</td>
  </tr>
</table>
```

Notice that these two rows now only have two cell elements.

Introducing Tables

Additional Table Elements

A title for the table is good for accessibility.

These describe our columns, and can be used to aid in styling.

Table header could potentially also include other `<tr>` elements.

Yes, the table footer comes *before* the body.

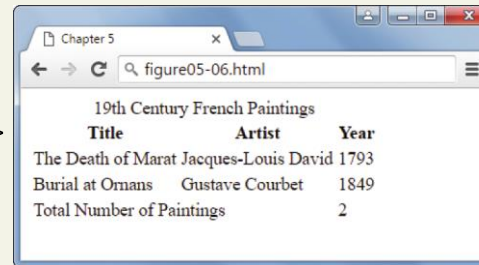
Potentially, with styling the browser can scroll this information, while keeping the header and footer fixed in place.

```
<table>
  <caption>19th Century French Paintings</caption>
  <col class="artistName" />
  <colgroup id="paintingColumns">
    <col />
    <col />
  </colgroup>

  <thead>
    <tr>
      <th>Title</th>
      <th>Artist</th>
      <th>Year</th>
    </tr>
  </thead>

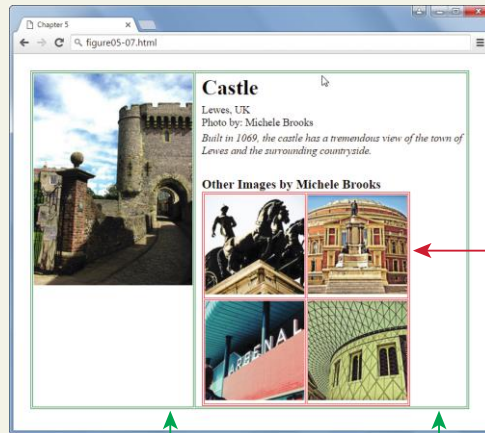
  <tfoot>
    <tr>
      <td colspan="2">Total Number of Paintings</td>
      <td>2</td>
    </tr>
  </tfoot>

  <tbody>
    <tr>
      <td>The Death of Marat</td>
      <td>Jacques-Louis David</td>
      <td>1793</td>
    </tr>
    <tr>
      <td>Burial at Ornans</td>
      <td>Gustave Courbet</td>
      <td>1849</td>
    </tr>
  </tbody>
</table>
```



Introducing Tables

Using Tables for Layout



```
<table>
<tr>
<td>

</td>
<td>
<h2>Castle</h2>
<p>Lewes, UK</p>
<p>Photo by: Michele Brooks</p>
<p>Built in 1069, the castle has a tremendous
view of the town of Lewes and the
surrounding countryside.
</p>
```

```
<h3>Other Images by Michele Brooks</h3>
```

```
<table>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</table>
</td>
</tr>
</table>
```

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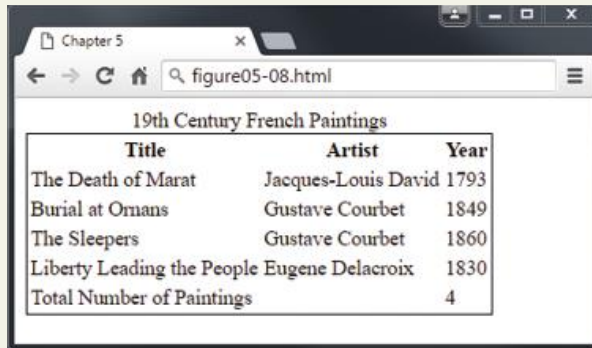
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Styling Tables

Table Borders

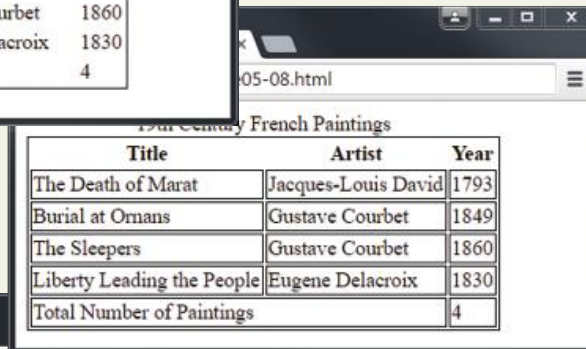


Chapter 5
figure05-08.html

19th Century French Paintings

Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Ornans	Gustave Courbet	1849
The Sleepers	Gustave Courbet	1860
Liberty Leading the People	Eugene Delacroix	1830
Total Number of Paintings		4

```
table {  
  border: solid 1pt black;  
}
```

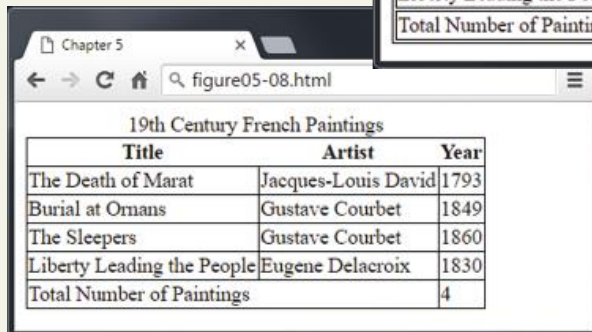


Chapter 5
figure05-08.html

19th Century French Paintings

Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Ornans	Gustave Courbet	1849
The Sleepers	Gustave Courbet	1860
Liberty Leading the People	Eugene Delacroix	1830
Total Number of Paintings		4

```
table {  
  border: solid 1pt black;  
}  
td {  
  border: solid 1pt black;  
}
```



Chapter 5
figure05-08.html

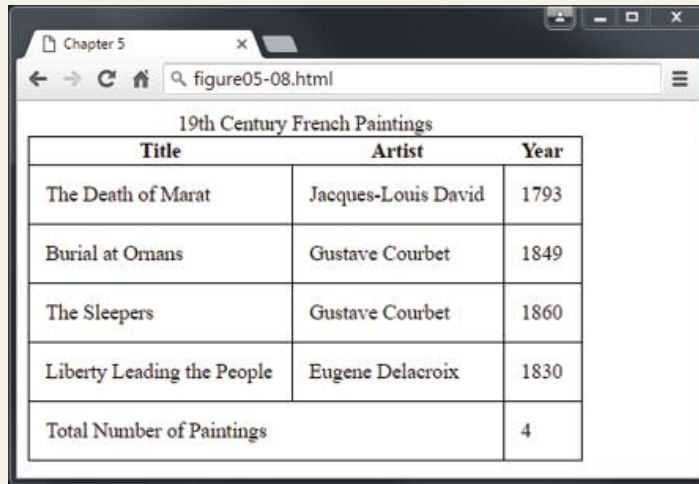
19th Century French Paintings

Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Ornans	Gustave Courbet	1849
The Sleepers	Gustave Courbet	1860
Liberty Leading the People	Eugene Delacroix	1830
Total Number of Paintings		4

```
table {  
  border: solid 1pt black;  
  border-collapse: collapse;  
}  
td {  
  border: solid 1pt black;  
}
```

Styling Tables

Table Borders

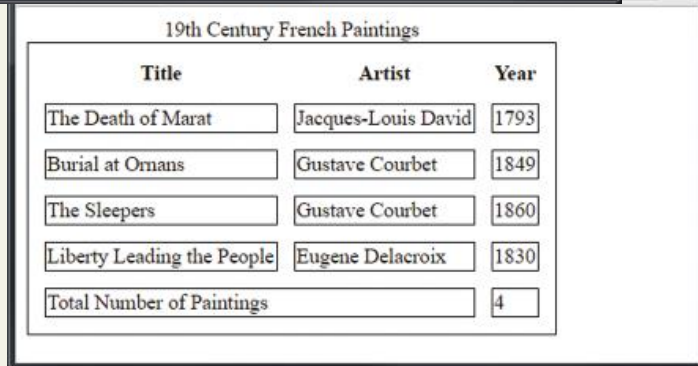


Chapter 5 x
figure05-08.html

19th Century French Paintings

Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Omans	Gustave Courbet	1849
The Sleepers	Gustave Courbet	1860
Liberty Leading the People	Eugene Delacroix	1830
Total Number of Paintings		4

```
table {  
  border: solid 1pt black;  
  border-collapse: collapse;  
}  
td {  
  border: solid 1pt black;  
  padding: 10pt;  
}
```



19th Century French Paintings

Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Omans	Gustave Courbet	1849
The Sleepers	Gustave Courbet	1860
Liberty Leading the People	Eugene Delacroix	1830
Total Number of Paintings		4

```
table {  
  border: solid 1pt black;  
  border-spacing: 10pt;  
}  
td {  
  border: solid 1pt black;  
}
```

Styling Tables

Boxes



Chapter 5 x

figure05-09.html

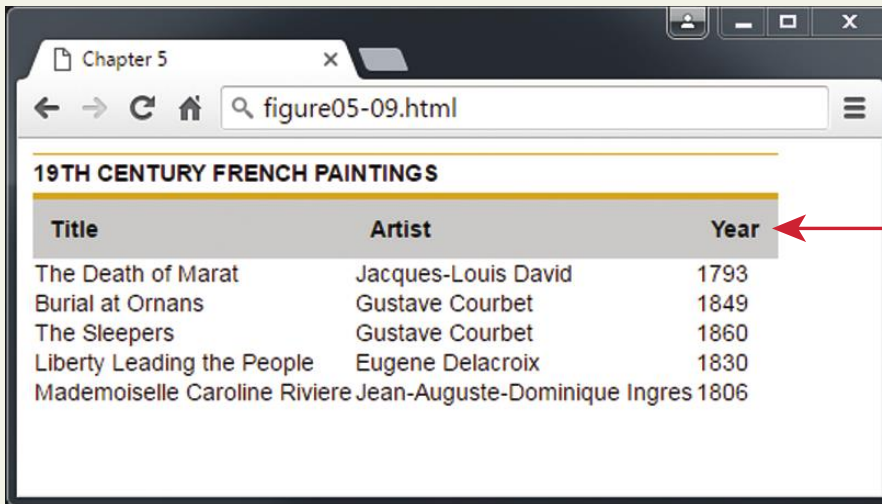
19TH CENTURY FRENCH PAINTINGS

Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Ornans	Gustave Courbet	1849
The Sleepers	Gustave Courbet	1860
Liberty Leading the People	Eugene Delacroix	1830
Mademoiselle Caroline Riviere	Jean-Auguste-Dominique Ingres	1806

```
caption {
    font-weight: bold;
    padding: 0.25em 0 0.25em 0;
    text-align: left;
    text-transform: uppercase;
    border-top: 1px solid #DCA806;
}
table {
    font-size: 0.8em;
    font-family: Arial, sans-serif;
    border-collapse: collapse;
    border-top: 4px solid #DCA806;
    border-bottom: 1px solid white;
    text-align: left;
}
```

Styling Tables

Boxes



Chapter 5

figure05-09.html

19TH CENTURY FRENCH PAINTINGS

Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Ornans	Gustave Courbet	1849
The Sleepers	Gustave Courbet	1860
Liberty Leading the People	Eugene Delacroix	1830
Mademoiselle Caroline Riviere	Jean-Auguste-Dominique Ingres	1806

```
thead tr {  
    background-color: #CACACA;  
}  
th {  
    padding: 0.75em;  
}
```

Styling Tables

Boxes



Chapter 5

figure05-09.html

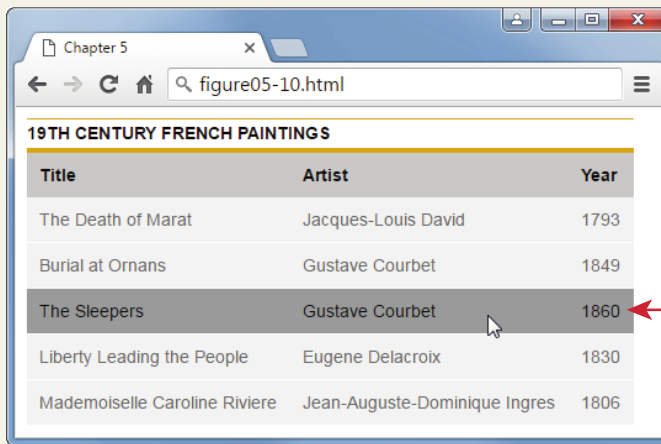
19TH CENTURY FRENCH PAINTINGS

Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Ornans	Gustave Courbet	1849
The Sleepers	Gustave Courbet	1860
Liberty Leading the People	Eugene Delacroix	1830
Mademoiselle Caroline Riviere	Jean-Auguste-Dominique Ingres	1806

```
tbody tr {  
    background-color: #F1F1F1;  
    border-bottom: 1px solid white;  
    color: #6E6E6E;  
}  
tbody td {  
    padding: 0.75em;  
}
```


Styling Tables

Hover & Zebras



Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Ornans	Gustave Courbet	1849
The Sleepers	Gustave Courbet	1860
Liberty Leading the People	Eugene Delacroix	1830
Mademoiselle Caroline Riviere	Jean-Auguste-Dominique Ingres	1806

```
tbody tr:hover {  
  background-color: #9e9e9e;  
  color: black;  
}
```



Title	Artist	Year
The Death of Marat	Jacques-Louis David	1793
Burial at Ornans	Gustave Courbet	1849
The Sleepers	Gustave Courbet	1860
Liberty Leading the People	Eugene Delacroix	1830
Mademoiselle Caroline Riviere	Jean-Auguste-Dominique Ingres	1806

```
tbody tr:nth-child(even) {  
  background-color: lightgray;  
}
```

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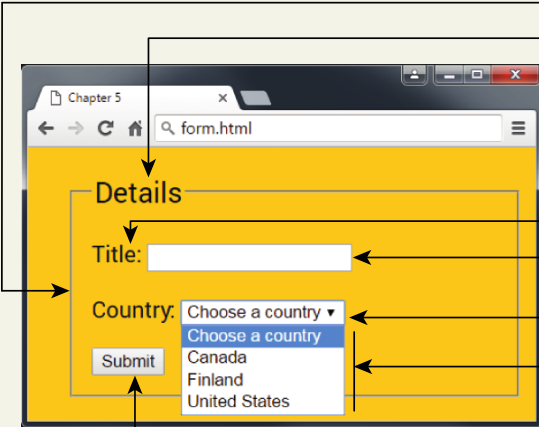
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Introducing Forms

Form Structure

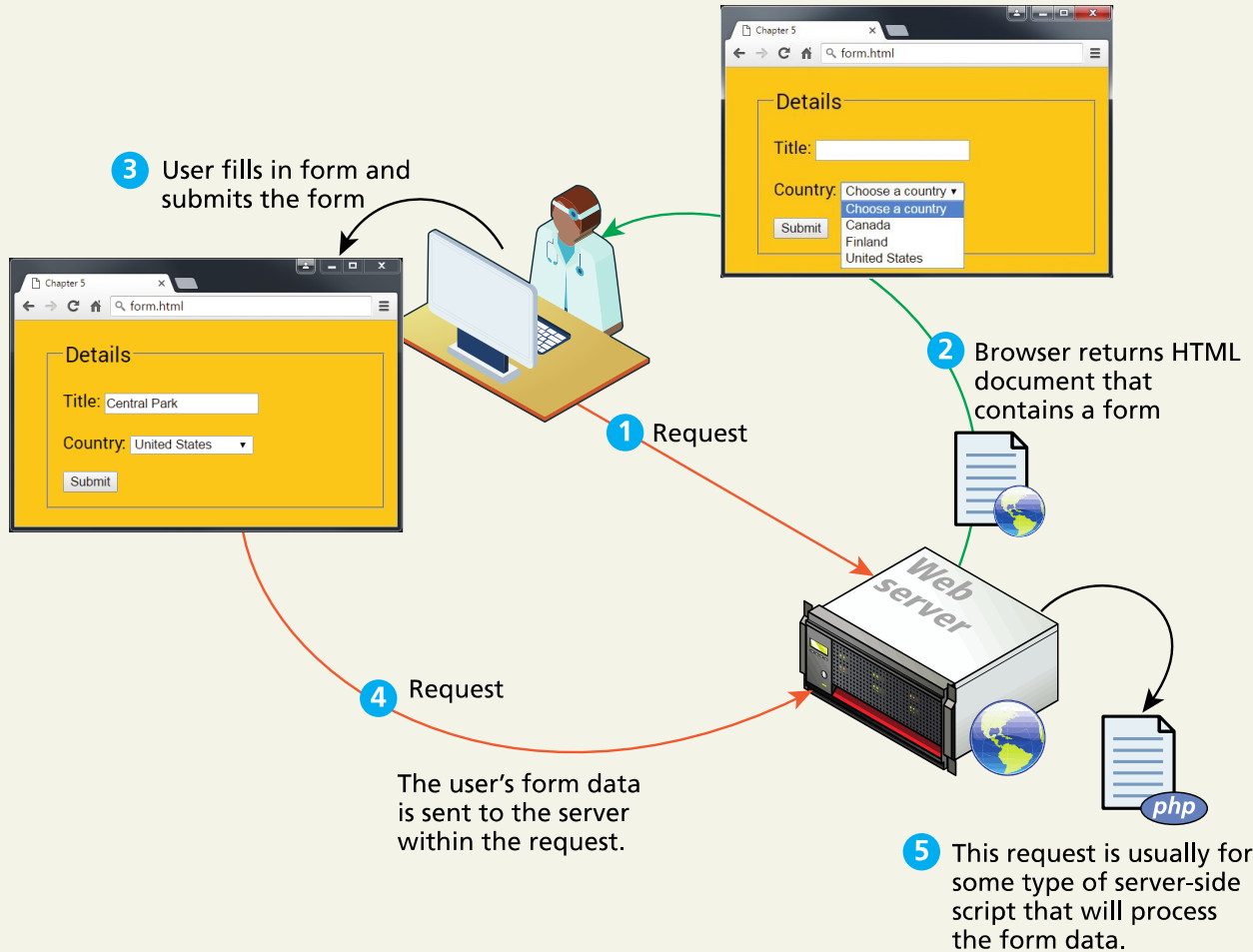


```
<form method="post" action="process.php">
  <fieldset>
    <legend>Details</legend>
    <p>
      <label>Title: </label>
      <input type="text" name="title" />
    </p>
    <p>
      <label>Country: </label>
      <select name="where">
        <option>Choose a country</option>
        <option>Canada</option>
        <option>Finland</option>
        <option>United States</option>
      </select>
    </p>
    <input type="submit" />
  </fieldset>
</form>
```

The image shows a browser window with a form titled "Details". The form contains a text input for "Title:", a dropdown menu for "Country:" with options "Choose a country", "Canada", "Finland", and "United States", and a "Submit" button. Arrows point from the browser elements to the corresponding HTML code on the right.

Introducing Forms

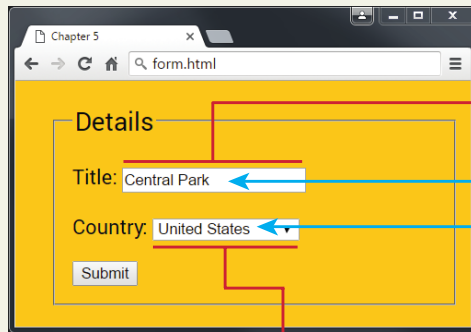
How Forms Work



Introducing Forms

Query Strings

```
<input type="text" name="title" />
```



```
title=Central+Park&where=United+States
```

```
<select name="where">
```

Introducing Forms

GET and POST

Chapter 5
form.html

Details

Title:

Country:

`<form method="get" action="process.php">`

`GET /process.php?title=Central+Park&where=United+States http/1.1`

query string

`<form method="post" action="process.php">`

```
POST /process.php http/1.1
Date: Sun, 21 May 2017 23:59:59 GMT
Host: www.mysite.com
User-Agent: Mozilla/4.0
Content-Length: 47
```

HTTP Header

`title=Central+Park&where=United+States`

query string

Introducing Forms

HTML Form elements

- `<button>`
- `<datalist>`
- `<fieldset>`
- `<form>`
- `<input>`
- `<label>`
- `<legend>`
- `<option>`
- `<optgroup>`
- `<select>`
- `<textarea>`
- `<output>`

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Form Control Elements

Text Input Controls

```
<input type="text" ... />
```

Text:

```
<textarea>
  enter some text
</textarea>
<textarea placeholder="enter some text">
</textarea>
```

TextArea: TextArea:

```
<input type="password" ... />
```

Password: Password:

```
<input type="search" placeholder="enter search text" ... />
```

Search: Search:

```
<input type="email" ... />
```

Email: *In Opera*
 Please enter a valid email address

Email: *In Chrome*
 Please enter an email address.

```
<input type="url" ... />
```

url: Please enter a URL.

```
<input type="tel" ... />
```

Tel:

Form Control Elements

New in HTML5 – pattern and datalist

```
<input type="text" ... placeholder="L#L #L#" pattern="[a-z][0-9][a-z] [0-9][a-z][0-9]" />
```

Postal:

Postal:

! Please match the requested format.

Search City:

- Paris
- Prague

```
<input type="text" name="city" list="cities" />
```

```
<datalist id="cities">  
  <option>Calcutta</option>  
  <option>Calgary</option>  
  <option>London</option>  
  <option>Los Angeles</option>  
  <option>Paris</option>  
  <option>Prague</option>  
</datalist>
```

Form Control Elements

Choice Controls (<select>)

Select:

Select:
First
Second
Third

```
<select name="choices">  
  <option>First</option>  
  <option selected>Second</option>  
  <option>Third</option>  
</select>
```

Select:
First
Second
Third
Fourth

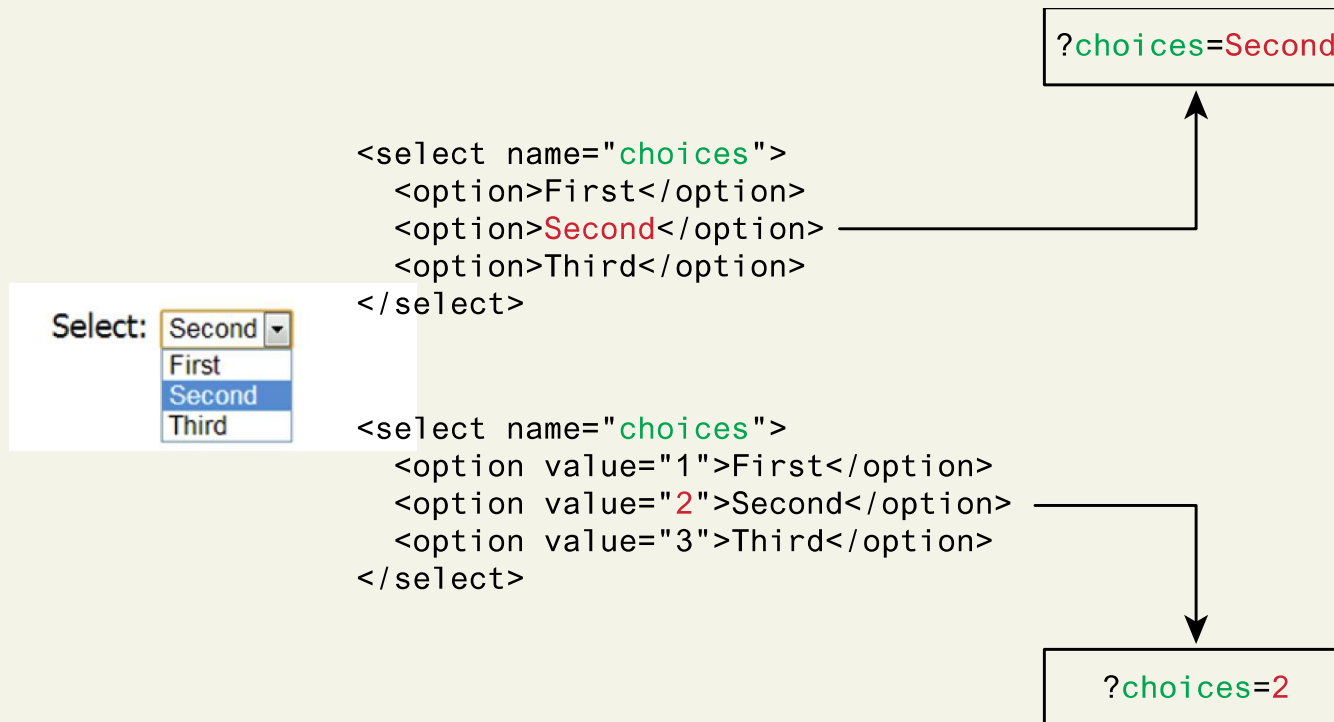
```
<select size="3" ... >
```

Cities:
North America
 Calgary
 Los Angeles
Europe
 London
 Paris
 Prague

```
<select ... >  
  <optgroup label="North America">  
    <option>Calgary</option>  
    <option>Los Angeles</option>  
  </optgroup>  
  <optgroup label="Europe">  
    <option>London</option>  
    <option>Paris</option>  
    <option>Prague</option>  
  </optgroup>  
</select>
```

Form Control Elements

Choice Controls <select> using value attribute



Form Control Elements

Button Controls (radio)

Continent:

- North America
- South America
- Asia

```
<input type="radio" name="where" value="1">North America<br/>  
<input type="radio" name="where" value="2" checked>South America<br/>  
<input type="radio" name="where" value="3">Asia
```

Form Control Elements

Button Controls (checkbox)

I accept the software license

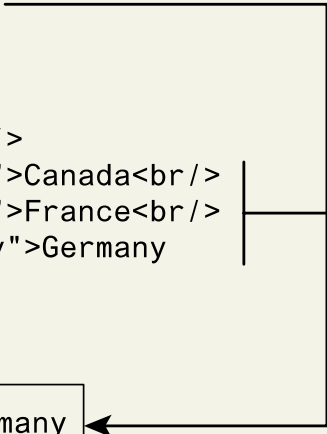
```
<label>I accept the software license</label>  
<input type="checkbox" name="accept" >
```

Where would you like to visit?

- Canada
- France
- Germany

```
<label>Where would you like to visit? </label><br/>  
<input type="checkbox" name="visit" value="canada">Canada<br/>  
<input type="checkbox" name="visit" value="france">France<br/>  
<input type="checkbox" name="visit" value="germany">Germany
```

?accept=on&visit=canada&visit=germany



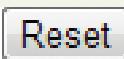
Form Control Elements

Button Controls (checkbox)

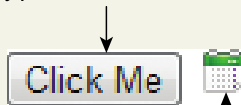
```
<input type="submit" />
```



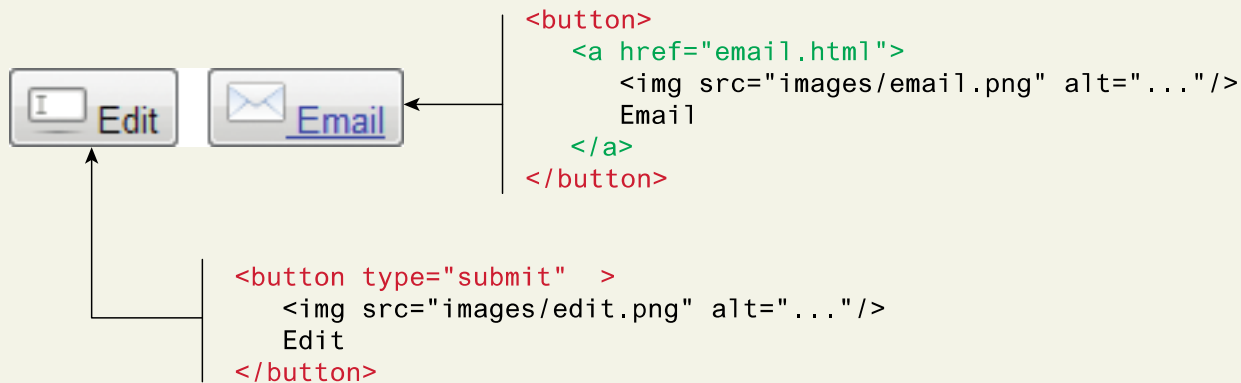
```
<input type="reset" />
```



```
<input type="button" value="Click Me" />
```



```
<input type="image" src="appointment.png" />
```



Form Control Elements

Specialized Controls (file upload)

Upload a travel photo
 No file chosen



Upload a travel photo
 IMG_0020.JPG

```
<form method="post" enctype="multipart/form-data" ... >  
  ...  
  <label>Upload a travel photo</label>  
  <input type="file" name="photo" />  
  ...  
</form>
```


Form Control Elements

Specialized Controls (number and range controls)

Rate this photo:

```
<label>Rate this photo: <br/>
```

```
<input type="number" min="1" max="5" name="rate" />
```

Grumpy Ecstatic

Grumpy

```
<input type="range" min="0" max="10" step="1" name="happiness" />
```

Ecstatic

Rate this photo:

Grumpy Ecstatic

Controls as they appear in browser
that doesn't support these input types

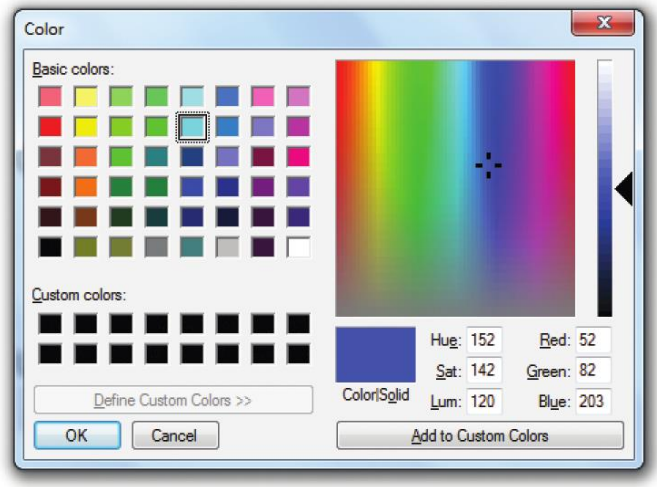
Form Control Elements

Specialized Controls (colour)

Background Color:



```
<label>Background Color: <br />
<input type="color" name="back" />
```



Background Color:

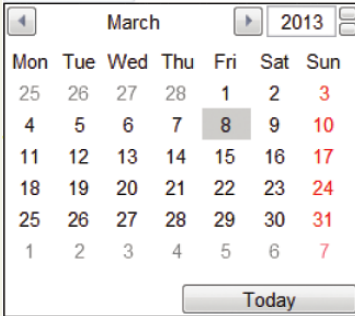


Control as it appears in browser that doesn't support this input type

Form Control Elements

Date and Time Controls

Date:



```
<label>Date: <br/>  
<input type="date" ... />
```

Time:

```
<input type="time" ... />
```

DateTime:

```
<input type="datetime" ... />
```

DateTime Local:

```
<input type="datetime-local" ... />
```

Form Control Elements

Date and Time Controls

Month:

March, 2013

March, 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
24	25	26	27	28	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

This month Clear

```
<input type="month" ... />
```

Week:

2013-W10

March 2013

Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun
9	25	26	27	28	1	2	3
10	4	5	6	7	8	9	10
11	11	12	13	14	15	16	17
12	18	19	20	21	22	23	24
13	25	26	27	28	29	30	31
14	1	2	3	4	5	6	7

Today

```
<input type="week" ... />
```

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Table and Form Accessibility

Accessible Tables

- Use tables for data, not layout
- Use the <caption> element
- Connect cells with a textual description in the header

```
<caption>Famous Paintings</caption>
<tr>
  <th scope="col">Title</th>
  <th scope="col">Artist</th>
  <th scope="col">Year</th>
  <th scope="col">Width</th>
  <th scope="col">Height</th>
</tr>
```

Table and Form Accessibility

Accessible Form

```
<label for="f-title">Title: </label>
```

```
<input type="text" name="title" id="f-title"/>
```

```
<label for="f-country">Country: </label>
```

```
<select name="where" id="f-country">  
  <option>Choose a country</option>  
  <option>Canada</option>  
  <option>Finland</option>  
  <option>United States</option>  
</select>
```

Chapter 5

1 Introducing
Tables

2 Styling Tables

3 Introducing
Forms

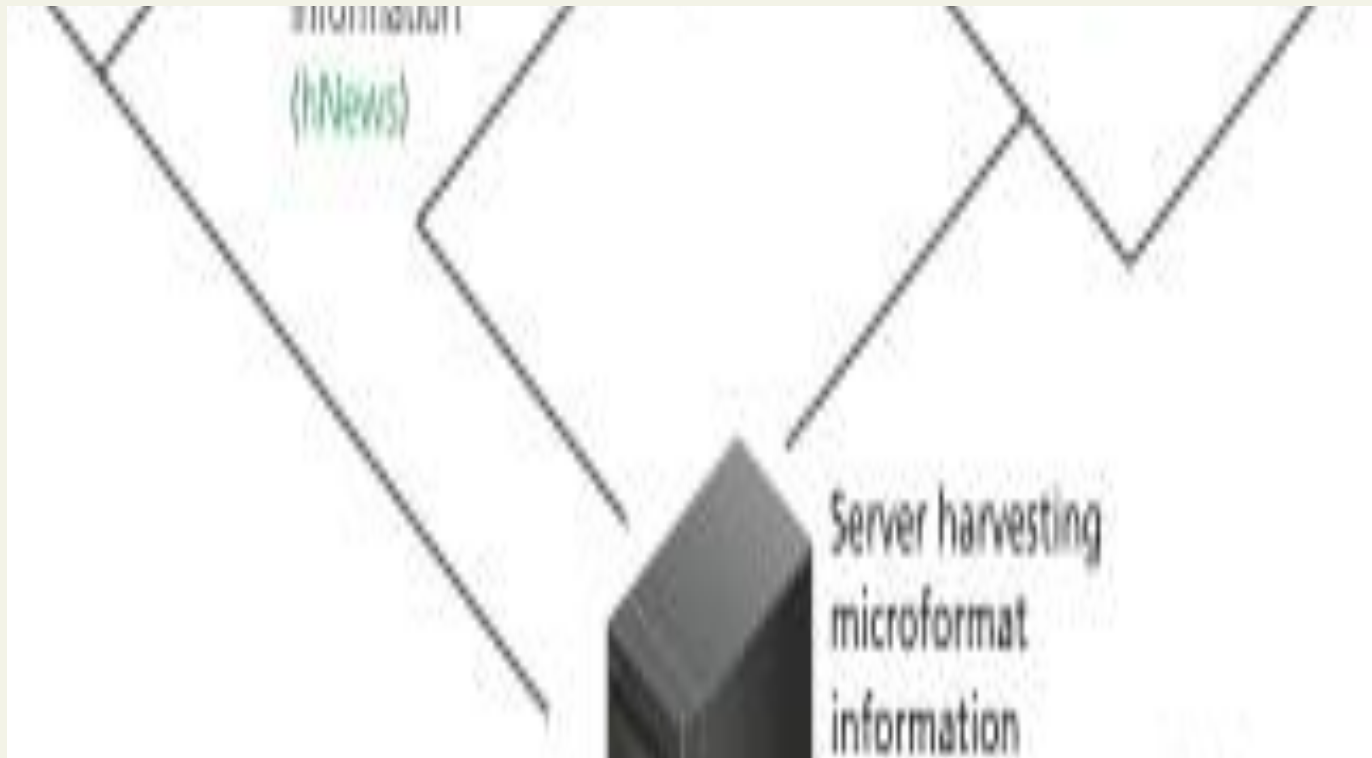
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Microformats



Microformats

Schema.org

The image shows two browser windows. The top window is a Google search for 'pearson plc', displaying a search result for 'Pearson PLC - Wikipedia, the free encyclopedia'. The bottom window is a Bing search for 'pearson plc', displaying a rich search result for 'Pearson PLC' with structured data. A red line connects the structured data in the Bing result to a text box on the right.

Pearson PLC - Wikipedia, the free encyclopedia
https://en.wikipedia.org/wiki/Pearson_PLC
Pearson PLC is a British multinational publishing and education company headquartered in London, It is the largest education company and the largest book publisher in the world. Wikipedia

Pearson PLC
Publishing company

Pearson PLC - Official Site
<https://www.pearson.com>
Pearson agrees 10-year contract with Cincinnati State for marketing, recruiting and student support services. New paper published by Pearson makes the case for why ...

AIMSweb
To view AIMSweb improvement reports, enter your customer ID ...

MyLab & Mastering
MyLab and Mastering from Pearson helps break through to improved ...

About Us
Welcome to Pearson. We have a simple mission: to help people ...
See results only from pearson.com

Pearson PLC - Wikipedia, the free encyclopedia
https://en.wikipedia.org/wiki/Pearson_PLC
Pearson PLC is a British multinational publishing and education company headquartered in London. It is the largest education company and the largest book publisher in ...
History Operations Criticism

Investor information - Pearson
<https://www.pearson.com/investors>
Pearson is the world's largest education company, with 40,000 employees in more than 70 countries providing a range of educational products and services to ...

Pearson PLC
Company

Pearson
Pearson PLC is a British multinational publishing and education company headquartered in London. It is the largest education company and the largest book publisher in the world. Pearson has a primary listing on the London Stock Exchange and i... +

Wikipedia
Founded: 1844
CEO: John Fallon
Founder: Samuel Pearson
Headquarters: London, United Kingdom

People also search for See all (20+)

BERTELSMANN Random House Economist Group Longman Prentice Hall

Data from: Wikipedia - Freebase
Feedback

Pearson PLC
Publishing company

[pearson.com](https://www.pearson.com)

Pearson PLC is a British multinational publishing and education company headquartered in London. It is the largest education company and the largest book publisher in the world. Wikipedia

Stock price: PSON (LON) 836.17 GBX -13.33 (-1.57%)
Jun 3, 5:01 PM GMT+1 - Disclaimer

CEO: John Fallon

Customer service: 1 (800) 567-3800

Headquarters: London, United Kingdom

Subsidiaries: Pearson Education, Edexcel, Pearson Inc

Profiles

[Facebook](#) [LinkedIn](#) [Twitter](#) [YouTube](#)

Search engines use the information marked up using vocabulary from schema.org to provide additional structured information.

Microformats

References

hCard, which is used to semantically mark up contact information for a person

- <http://microformats.org/wiki/hcard>.

Schema.org aims to create and promote schemas for structured data on the Web. Google's on-line testing tool helps developers test their semantic markup and microformats

- <https://search.google.com/structured-data/testing-tool/u/0/>

Chapter 5

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Summary

Key Terms

- checkbox
- colspan
- form
- GET
- hCard
- microformat
- POST
- query string
- radio buttons
- rowspan
- schema.org
- table
- URL encoded
- web accessibility
- Web Accessibility Initiative (WAI)

Questions