Tables, Forms

ITP 104
Fall 2018

Margins

Create spaces outside element's borders.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```css
div {
  margin: 50px;
}
```

```css
div {
  margin-top: 50px;
  margin-right: 50px;
  margin-bottom: 50px;
  margin-left: 50px;
}
```
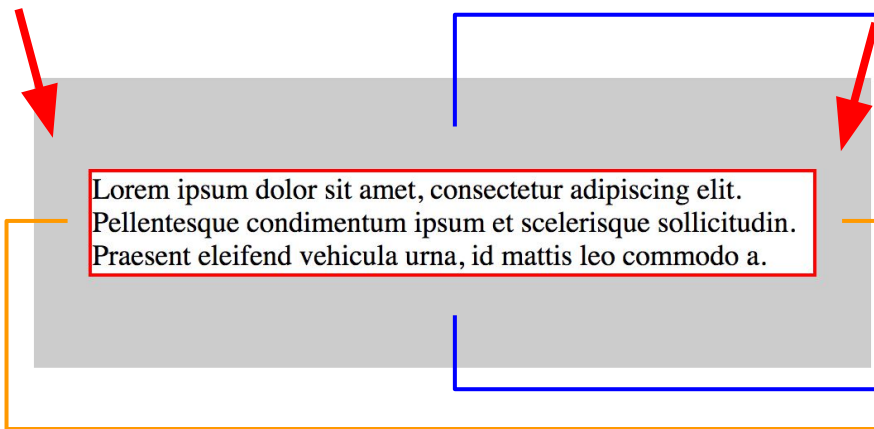
```html
<div>
  Lorem ipsum dolor sit amet, consectetur adipiscing elit.
  Pellentesque condimentum ipsum et scelerisque sollicitudin.
  Praesent eleifend vehicula urna, id mattis leo commodo a.
</div>
```

Margins

Create spaces outside element's borders.

Result:


```css
div {
    margin: 50px 30px;
}
```

```html
<div>
    Lorem ipsum dolor sit amet, consectetur adipiscing elit.
    Pellentesque condimentum ipsum et scelerisque sollicitudin.
    Praesent eleifend vehicula urna, id mattis leo commodo a.
</div>
```

Margins

Create spaces outside element's borders.

Result:

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```
div {
  margin: 50px 30px;
}
```

```
div {
  margin-top: 50px;
  margin-right: 30px;
  margin-bottom: 50px;
  margin-left: 30px;
}
```

```
<div>
  Lorem ipsum dolor sit amet, consectetur adipiscing elit.
  Pellentesque condimentum ipsum et scelerisque sollicitudin.
  Praesent eleifend vehicula urna, id mattis leo commodo a.
</div>
```
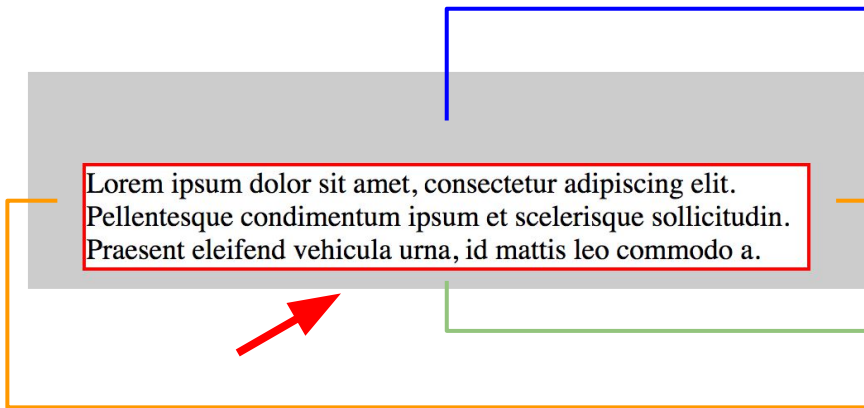
Margins

Create spaces outside element's borders.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```css
div {
    margin: 50px 30px 10px;
}
```

```html
<div>
    Lorem ipsum dolor sit amet, consectetur adipiscing elit.
    Pellentesque condimentum ipsum et scelerisque sollicitudin.
    Praesent eleifend vehicula urna, id mattis leo commodo a.
</div>
```

Margins

Create spaces outside element's borders.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```css
div {
  margin: 50px 30px 10px;
}
```

```css
div {
  margin-top: 50px;
  margin-right: 30px;
  margin-bottom: 10px;
  margin-left: 30px;
}
```

```html
<div>
  Lorem ipsum dolor sit amet, consectetur adipiscing elit.
  Pellentesque condimentum ipsum et scelerisque sollicitudin.
  Praesent eleifend vehicula urna, id mattis leo commodo a.
</div>
```
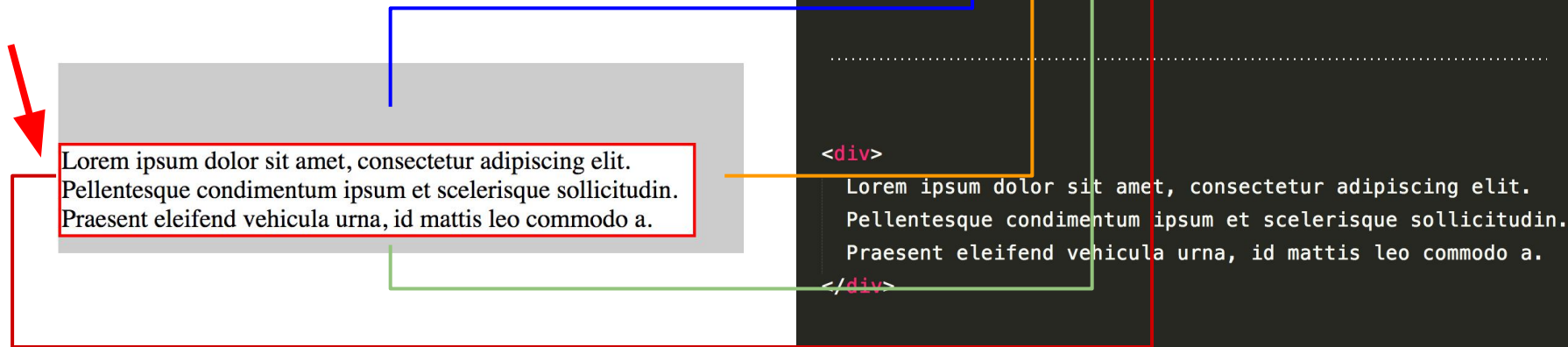
Margins

Create spaces outside element's borders.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```
div {
    margin: 50px 30px 10px 0px;
}



<div>
    Lorem ipsum dolor sit amet, consectetur adipiscing elit.
    Pellentesque condimentum ipsum et scelerisque sollicitudin.
    Praesent eleifend vehicula urna, id mattis leo commodo a.
</div>
```

Margins

Create spaces outside element's borders.
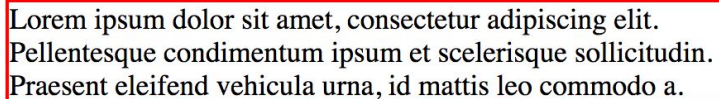
Result:

> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```css
div {
  margin: 50px 30px 10px 0px;
}
```

```css
div {
  margin-top: 50px;
  margin-right: 30px;
  margin-bottom: 10px;
  margin-left: 0px;
}
```
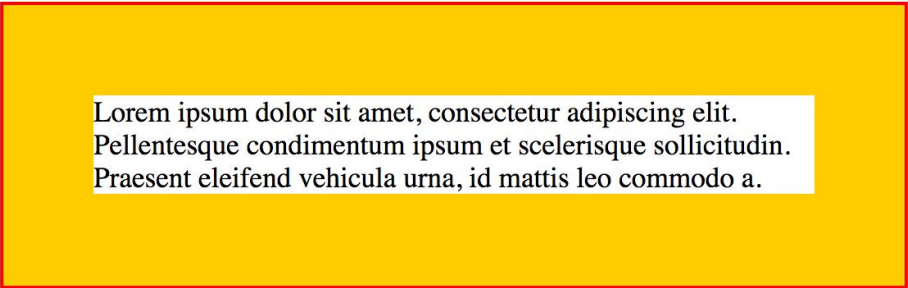
```html
<div>
  Lorem ipsum dolor sit amet, consectetur adipiscing elit.
  Pellentesque condimentum ipsum et scelerisque sollicitudin.
  Praesent eleifend vehicula urna, id mattis leo commodo a.
</div>
```

Paddings

Create spaces within element's borders.

Result:


```css
div {
  padding: 50px;
}
```

Paddings

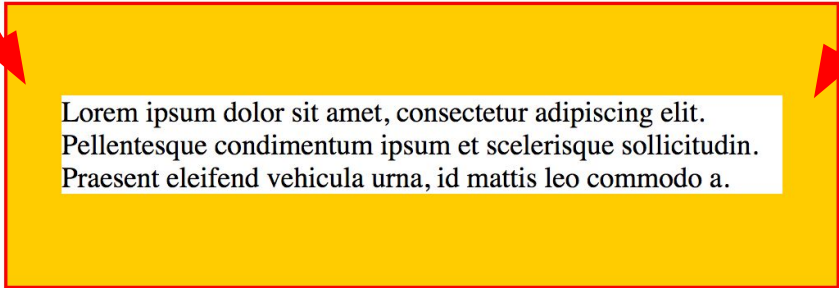Create spaces within element's borders.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```css
div {
  padding: 50px;
}


div {
  padding: 50px 30px;
}
```

Paddings

Create spaces within element's borders.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```css
div {
  padding: 50px;
}


div {
  padding: 50px 30px;
}


div {
  padding: 50px 30px 10px;
}
```

Paddings

Create spaces within element's borders.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Pellentesque condimentum ipsum et scelerisque sollicitudin.
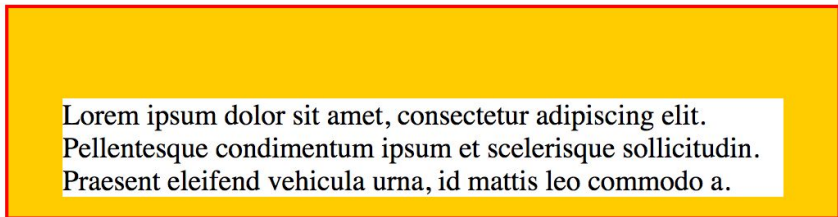Praesent eleifend vehicula urna, id mattis leo commodo a.
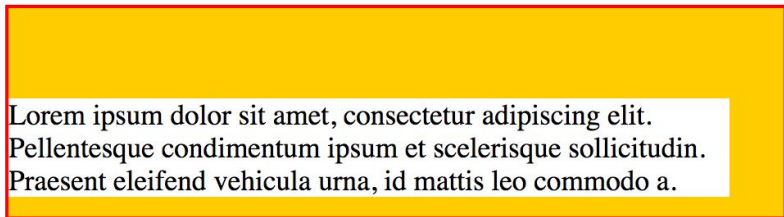
```css
div {
  padding: 50px;
}

div {
  padding: 50px 30px;
}

div {
  padding: 50px 30px 10px;
}

div {
  padding: 50px 30px 10px 0px;
}
```

CSS `border-radius`

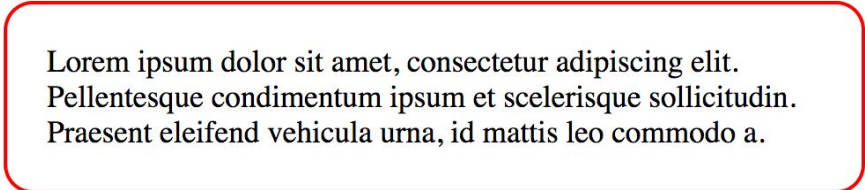Gives elements rounded corners.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```css
div {
  border-radius: 15px;
}
```

CSS `border-radius`

Gives elements rounded corners.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```
div {
  border-radius: 15px;
}

div {
  border-radius: 15px 30px;
}
```

CSS `border-radius`
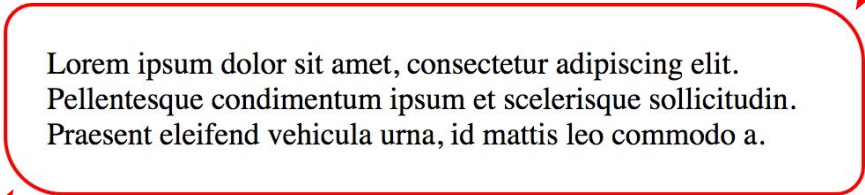
Gives elements rounded corners.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```css
div {
  border-radius: 15px;
}

div {
  border-radius: 15px 30px;
}

div {
  border-radius: 15px 30px 60px;
}
```

CSS `border-radius`

Gives elements rounded corners.

Result:

> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum ipsum et scelerisque sollicitudin. Praesent eleifend vehicula urna, id mattis leo commodo a.

```css
div {
  border-radius: 15px;
}

div {
  border-radius: 15px 30px;
}

div {
  border-radius: 15px 30px 60px;
}

div {
  border-radius: 15px 30px 60px 120px;
}
```
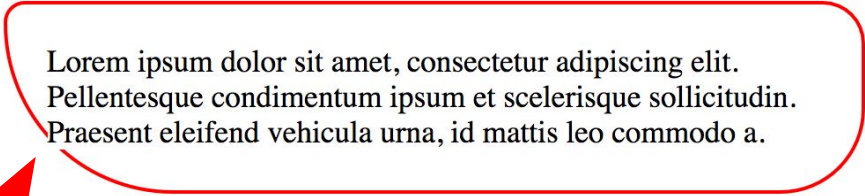
CSS `border-radius`

Also can be used to create circles or ellipses.

Result:


```
img {
    border-radius: 50%;
}
```

HTML Tables

Used to display data in tabular format.

Do **not** use tables to create layouts.

Row 1 - Col 1	Row 1 - Col 2	Row 1 - Col 3	Row 1 - Col 4
Row 2 - Col 1	Row 2 - Col 2	Row 2 - Col 3	Row 2 - Col 4
Row 3 - Col 1	Row 3 - Col 2	Row 3 - Col 3	Row 3 - Col 4
Row 4 - Col 1	Row 4 - Col 2	Row 4 - Col 3	Row 4 - Col 4

```html
<table>
  <tr>
    <th>Row 1 - Col 1</th>
    <th>Row 1 - Col 2</th>
    <th>Row 1 - Col 3</th>
    <th>Row 1 - Col 4</th>
  </tr>
  <tr>
    <th>Row 2 - Col 1</th>
    <td>Row 2 - Col 2</td>
    <td>Row 2 - Col 3</td>
    <td>Row 2 - Col 4</td>
  </tr>
  <tr>
    <th>Row 3 - Col 1</th>
    <td>Row 3 - Col 2</td>
    <td>Row 3 - Col 3</td>
    <td>Row 3 - Col 4</td>
  </tr>
  <tr>
    <th>Row 4 - Col 1</th>
    <td>Row 4 - Col 2</td>
    <td>Row 4 - Col 3</td>
    <td>Row 4 - Col 4</td>
  </tr>
</table>
```

HTML Tables

Used to display data in tabular format.

Do **not** use tables to create layouts.

1. Defines a table.

Row 1 - Col 1	Row 1 - Col 2	Row 1 - Col 3	Row 1 - Col 4
Row 2 - Col 1	Row 2 - Col 2	Row 2 - Col 3	Row 2 - Col 4
Row 3 - Col 1	Row 3 - Col 2	Row 3 - Col 3	Row 3 - Col 4
Row 4 - Col 1	Row 4 - Col 2	Row 4 - Col 3	Row 4 - Col 4

```html
<table>
  <tr>
    <th>Row 1 - Col 1</th>
    <th>Row 1 - Col 2</th>
    <th>Row 1 - Col 3</th>
    <th>Row 1 - Col 4</th>
  </tr>
  <tr>
    <th>Row 2 - Col 1</th>
    <td>Row 2 - Col 2</td>
    <td>Row 2 - Col 3</td>
    <td>Row 2 - Col 4</td>
  </tr>
  <tr>
    <th>Row 3 - Col 1</th>
    <td>Row 3 - Col 2</td>
    <td>Row 3 - Col 3</td>
    <td>Row 3 - Col 4</td>
  </tr>
  <tr>
    <th>Row 4 - Col 1</th>
    <td>Row 4 - Col 2</td>
    <td>Row 4 - Col 3</td>
    <td>Row 4 - Col 4</td>
  </tr>
</table>
```

HTML Tables

Used to display data in tabular format.

Do **not** use tables to create layouts.

1. Defines a table.

2. Defines a table row.

Row 1 - Col 1	Row 1 - Col 2	Row 1 - Col 3	Row 1 - Col 4
Row 2 - Col 1	Row 2 - Col 2	Row 2 - Col 3	Row 2 - Col 4
Row 3 - Col 1	Row 3 - Col 2	Row 3 - Col 3	Row 3 - Col 4
Row 4 - Col 1	Row 4 - Col 2	Row 4 - Col 3	Row 4 - Col 4

```html
<table>
  <tr>
    <th>Row 1 - Col 1</th>
    <th>Row 1 - Col 2</th>
    <th>Row 1 - Col 3</th>
    <th>Row 1 - Col 4</th>
  </tr>
  <tr>
    <th>Row 2 - Col 1</th>
    <td>Row 2 - Col 2</td>
    <td>Row 2 - Col 3</td>
    <td>Row 2 - Col 4</td>
  </tr>
  <tr>
    <th>Row 3 - Col 1</th>
    <td>Row 3 - Col 2</td>
    <td>Row 3 - Col 3</td>
    <td>Row 3 - Col 4</td>
  </tr>
  <tr>
    <th>Row 4 - Col 1</th>
    <td>Row 4 - Col 2</td>
    <td>Row 4 - Col 3</td>
    <td>Row 4 - Col 4</td>
  </tr>
</table>
```

HTML Tables

Used to display data in tabular format.

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1. Defines a table.

2. Defines a table row.

Row 1 - Col 1	Row 1 - Col 2	Row 1 - Col 3	Row 1 - Col 4
Row 2 - Col 1	Row 2 - Col 2	Row 2 - Col 3	Row 2 - Col 4
Row 3 - Col 1	Row 3 - Col 2	Row 3 - Col 3	Row 3 - Col 4
Row 4 - Col 1	Row 4 - Col 2	Row 4 - Col 3	Row 4 - Col 4

```html
<table>
  <tr>
    <th>Row 1 – Col 1</th>
    <th>Row 1 – Col 2</th>
    <th>Row 1 – Col 3</th>
    <th>Row 1 – Col 4</th>
  </tr>
  <tr>
    <th>Row 2 – Col 1</th>
    <td>Row 2 – Col 2</td>
    <td>Row 2 – Col 3</td>
    <td>Row 2 – Col 4</td>
  </tr>
  <tr>
    <th>Row 3 – Col 1</th>
    <td>Row 3 – Col 2</td>
    <td>Row 3 – Col 3</td>
    <td>Row 3 – Col 4</td>
  </tr>
  <tr>
    <th>Row 4 – Col 1</th>
    <td>Row 4 – Col 2</td>
    <td>Row 4 – Col 3</td>
    <td>Row 4 – Col 4</td>
  </tr>
</table>
```

HTML Tables

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Do **not** use tables to create layouts.

1. Defines a table.

2. Defines a table row.

Row 1 - Col 1	Row 1 - Col 2	Row 1 - Col 3	Row 1 - Col 4
Row 2 - Col 1	Row 2 - Col 2	Row 2 - Col 3	Row 2 - Col 4
Row 3 - Col 1	Row 3 - Col 2	Row 3 - Col 3	Row 3 - Col 4
Row 4 - Col 1	Row 4 - Col 2	Row 4 - Col 3	Row 4 - Col 4

```html
<table>
  <tr>
    <th>Row 1 - Col 1</th>
    <th>Row 1 - Col 2</th>
    <th>Row 1 - Col 3</th>
    <th>Row 1 - Col 4</th>
  </tr>
  <tr>
    <th>Row 2 - Col 1</th>
    <td>Row 2 - Col 2</td>
    <td>Row 2 - Col 3</td>
    <td>Row 2 - Col 4</td>
  </tr>
  <tr>
    <th>Row 3 - Col 1</th>
    <td>Row 3 - Col 2</td>
    <td>Row 3 - Col 3</td>
    <td>Row 3 - Col 4</td>
  </tr>
  <tr>
    <th>Row 4 - Col 1</th>
    <td>Row 4 - Col 2</td>
    <td>Row 4 - Col 3</td>
    <td>Row 4 - Col 4</td>
  </tr>
</table>
```

HTML Tables

Used to display data in tabular format.

Do **not** use tables to create layouts.

1. Defines a table.

2. Defines a table row.

Row 1 - Col 1	Row 1 - Col 2	Row 1 - Col 3	Row 1 - Col 4
Row 2 - Col 1	Row 2 - Col 2	Row 2 - Col 3	Row 2 - Col 4
Row 3 - Col 1	Row 3 - Col 2	Row 3 - Col 3	Row 3 - Col 4
Row 4 - Col 1	Row 4 - Col 2	Row 4 - Col 3	Row 4 - Col 4

```html
<table>
  <tr>
    <th>Row 1 – Col 1</th>
    <th>Row 1 – Col 2</th>
    <th>Row 1 – Col 3</th>
    <th>Row 1 – Col 4</th>
  </tr>
  <tr>
    <th>Row 2 – Col 1</th>
    <td>Row 2 – Col 2</td>
    <td>Row 2 – Col 3</td>
    <td>Row 2 – Col 4</td>
  </tr>
  <tr>
    <th>Row 3 – Col 1</th>
    <td>Row 3 – Col 2</td>
    <td>Row 3 – Col 3</td>
    <td>Row 3 – Col 4</td>
  </tr>
  <tr>
    <th>Row 4 – Col 1</th>
    <td>Row 4 – Col 2</td>
    <td>Row 4 – Col 3</td>
    <td>Row 4 – Col 4</td>
  </tr>
</table>
```

HTML Tables

Used to display data in tabular format.

Do **not** use tables to create layouts.

1. Defines a table.

2. Defines a table row.

3. Defines a header cell.

Row 1 - Col 1	Row 1 - Col 2	Row 1 - Col 3	Row 1 - Col 4
Row 2 - Col 1	Row 2 - Col 2	Row 2 - Col 3	Row 2 - Col 4
Row 3 - Col 1	Row 3 - Col 2	Row 3 - Col 3	Row 3 - Col 4
Row 4 - Col 1	Row 4 - Col 2	Row 4 - Col 3	Row 4 - Col 4

```html
<table>
  <tr>
    <th>Row 1 - Col 1</th>
    <th>Row 1 - Col 2</th>
    <th>Row 1 - Col 3</th>
    <th>Row 1 - Col 4</th>
  </tr>
  <tr>
    <th>Row 2 - Col 1</th>
    <td>Row 2 - Col 2</td>
    <td>Row 2 - Col 3</td>
    <td>Row 2 - Col 4</td>
  </tr>
  <tr>
    <th>Row 3 - Col 1</th>
    <td>Row 3 - Col 2</td>
    <td>Row 3 - Col 3</td>
    <td>Row 3 - Col 4</td>
  </tr>
  <tr>
    <th>Row 4 - Col 1</th>
    <td>Row 4 - Col 2</td>
    <td>Row 4 - Col 3</td>
    <td>Row 4 - Col 4</td>
  </tr>
</table>
```

HTML Tables

Used to display data in tabular format.

Do **not** use tables to create layouts.

1. Defines a table.

2. Defines a table row.

3. Defines a header cell.

4. Defines a cell.

Row 1 - Col 1	Row 1 - Col 2	Row 1 - Col 3	Row 1 - Col 4
Row 2 - Col 1	Row 2 - Col 2	Row 2 - Col 3	Row 2 - Col 4
Row 3 - Col 1	Row 3 - Col 2	Row 3 - Col 3	Row 3 - Col 4
Row 4 - Col 1	Row 4 - Col 2	Row 4 - Col 3	Row 4 - Col 4

```html
<table>
  <tr>
    <th>Row 1 - Col 1</th>
    <th>Row 1 - Col 2</th>
    <th>Row 1 - Col 3</th>
    <th>Row 1 - Col 4</th>
  </tr>
  <tr>
    <th>Row 2 - Col 1</th>
    <td>Row 2 - Col 2</td>
    <td>Row 2 - Col 3</td>
    <td>Row 2 - Col 4</td>
  </tr>
  <tr>
    <th>Row 3 - Col 1</th>
    <td>Row 3 - Col 2</td>
    <td>Row 3 - Col 3</td>
    <td>Row 3 - Col 4</td>
  </tr>
  <tr>
    <th>Row 4 - Col 1</th>
    <td>Row 4 - Col 2</td>
    <td>Row 4 - Col 3</td>
    <td>Row 4 - Col 4</td>
  </tr>
</table>
```

CSS `border-collapse`

Row 1 - Col 1	Row 1 - Col 2	Row 1 - Col 3
Row 2 - Col 1	Row 2 - Col 2	Row 2 - Col 3
Row 3 - Col 1	Row 3 - Col 2	Row 3 - Col 3
Row 4 - Col 1	Row 4 - Col 2	Row 4 - Col 3

```css
table {
  border-collapse: separate;
}
```

Row 1 - Col 1	Row 1 - Col 2	Row 1 - Col 3
Row 2 - Col 1	Row 2 - Col 2	Row 2 - Col 3
Row 3 - Col 1	Row 3 - Col 2	Row 3 - Col 3
Row 4 - Col 1	Row 4 - Col 2	Row 4 - Col 3

```css
table {
  border-collapse: collapse;
}
```

HTML Forms

Allow for user interaction and data collection.

Result (with additional styling):

Text Field:	[text input field]
Email Field:	[text input field]
Radio Buttons:	○ Radio 1 ○ Radio 2
Checkboxes:	☐ Checkbox 1 ☐ Checkbox 2
Drop-down:	Option 1 ⇕
Textarea:	[textarea]
	Submit Reset

```html
<form action="confirmation.html">
  <label for="text-id">Text Field:</label>
  <input type="text" id="text-id">

  <label for="email-id">Email Field:</label>
  <input type="email" id="email-id">

  <label>Radio Buttons:</label>
  <label>
    <input type="radio" name="radio-name">
    Radio 1
  </label>
  <label>
    <input type="radio" name="radio-name">
    Radio 2
  </label>

  <label>Checkboxes:</label>
  <label>
    <input type="checkbox">
    Checkbox 1
  </label>
  <label>
    <input type="checkbox">
    Checkbox 2
  </label>

  <label for="dropdown-id">Drop-down:</label>
  <select id="dropdown-id">
    <option>Option 1</option>
    <option>Option 2</option>
  </select>

  <label for="textarea-id">Textarea:</label>
  <textarea id="textarea-id"></textarea>

  <button type="submit">Submit</button>
  <button type="reset">Reset</button>
</form>
```

Form Tags

Define HTML form.

action	Specifies where form data is sent upon submission.

```
<form action="confirmation.html">
    ...
</form>
```

Text Fields

Single-line text fields.

Result (with additional styling):

Text Field:

```
Text Field:
<input type="text">
```

Email Fields

Text fields with basic email validation.

Result (with additional styling):

Email Field: [   ]

```
Email Field:
<input type="email">
```

Radio Buttons

Group of mutually exclusive fields.

Result (with additional styling):

> ◯ Radio 1   ◯ Radio 2

```
<input type="radio" name="radio-name">
Radio 1

<input type="radio" name="radio-name">
Radio 2
```

Group radio buttons by setting same `name` attribute value.

Checkboxes

Group of independent fields.

Result (with additional styling):

☐ Checkbox 1 ☐ Checkbox 2

```html
<input type="checkbox">
Checkbox 1

<input type="checkbox">
Checkbox 2
```

Drop-Down Lists

Pop-up menu that allows users to choose a single option from the list.

Result (with additional styling):

Drop-down:
✓ Option 1
   Option 2

```
Drop-down:
<select>
  <option>Option 1</option>
  <option>Option 2</option>
</select>
```

Textareas

Multi-line text fields.

Result (with additional styling):

Textarea:	

Textarea:
```
<textarea></textarea>
```
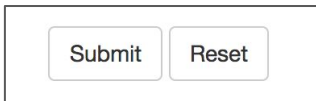
Buttons

Allow users to submit or reset forms.

Result (with additional styling):


```html
<button type="submit">Submit</button>
<button type="reset">Reset</button>
```

Form Labels

Captions for form elements.

Clicking a label triggers assigned form field.

Usage 1 Set `for` attribute to `id` of corresponding form field.

Usage 2 Wrap label around the form field.

Set `for` value to `id` of corresponding field.

```html
<label for="text-id">Text Field:</label>
<input type="text" id="text-id">



<label for="dropdown-id">Drop-down:</label>
<select id="dropdown-id">
  <option>Option 1</option>
  <option>Option 2</option>
</select>
```

```html
<label>
  <input type="radio" name="radio-name">
  Radio 2
</label>
```

Placeholder Attribute

Text displayed within form field before user input.

Usually used to specify hints or expected formats.

Result (with additional styling):

Text Field:	Text Field Placeholder
Email Field:	ttrojan@usc.edu
Phone Field:	(123) 123-1234

```html
<label for="text-id">Text Field:</label>
<input type="text" id="text-id" placeholder="Text Field Placeholder">

<label for="email-id">Email Field:</label>
<input type="email" id="email-id" placeholder="ttrojan@usc.edu">

<label for="phone-id">Phone Field:</label>
<input type="text" id="phone-id" placeholder="(123) 123-1234">
```