

How To Create Unordered HTML Lists

With Lon Hosford

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This is a Visual Step by Step Workbook and voice transcript for accompanying video for this portion of the course.

Introduction

Light Bulbs

Unordered Lists



Light Bulbs

- Incandescent
- Fluorescent
- Light Emitting Diodes (LEDs)
- Halogen

In this exercise we start creating HTML lists using unordered lists.

Introduction

Light Bulbs



Light Bulbs

- Incandescent
- Fluorescent
- Light Emitting Diodes (LEDs)
- Halogen

Unordered Lists

Bulleted Lists

You may think of unordered lists as bulleted lists that you find in most word processing programs.

Introduction

Light Bulbs

Unordered Lists

Bulleted Lists

Nested Lists

Light Bulbs

- Incandescent
- Fluorescent
- Light Emitting Diodes (LEDs)
- Halogen

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

We will see how HTML can nest lists such as in creating an outline.

Introduction

- * **Understand the ul and li elements**
- * Create a basic one level bullet list
- * Learn how nest ul elements
- * View and test with web browser

```
<ul>  
  <li></li>  
  <li></li>  
</ul>
```

We start by learning how the ul and li elements work together in HTML to create a bulleted list.

Introduction

- * **Understand the ul and li elements**
- * **Create a basic single level bullet list**
- * Learn how nest ul elements
- * View and test with web browser

```
<ul>  
  <li></li>  
  <li></li>  
</ul>
```



Light Bulbs

- Incandescent
- Fluorescent
- Light Emitting Diodes (LEDs)
- Halogen

We will apply them to our first single level list.

Introduction

- * Understand the ul and li elements
- * Create a basic single level bullet list
- * Learn how nest ul elements
- * View and test with web browser

```
<li>  
  <ul>  
    <li></li>  
  </ul>  
</li>
```



Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

Then we will create a second level list by nesting the ul element inside a li element.

Introduction

list-style-type: disc

- * Understand the ul and li elements
- * Create a basic single level bullet list
- * Learn how to nest ul elements
- * View and test with web browser

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- **ul 1224 x 36px** Light Emitting Diodes (LEDs)
- Halogen

```
<!DOCTYPE html>
<!-- Light Bulbs | Lon Hosford | www.lonhosford.com -->
<html>
  <head>...</head>
  <body>
    <h1>Light Bulbs</h1>
    <ul>
      <li>Incandescent</li>
    </ul>
  </body>
</html>
```

```
element.style {
}

li {
  display: list-item;
  text-align: -webkit-match-parent;
}

Inherited from ul:
ul, menu, dir {
  display: block;
  list-style-type: disc;
  -webkit-margin-before: 1em;
  -webkit-margin-after: 1em;
  -webkit-margin-start: 0px;
  -webkit-margin-end: 0px;
  -webkit-padding-start: 40px;
}
```

margin -
border -
padding -
1224 x 18

```
<!DOCTYPE html>
<!-- Light Bulbs | Lon Hosford | www.lonhosford.com -->
<html>
  <head>...</head>
  <body>
    <h1>Light Bulbs</h1>
    <ul>
      <li>Incandescent</li>
      <li>Fluorescent
        "
      </li>
    </ul>
    <ul>
      <li>Tubes</li>
      <li>Compact Fluorescent Lamps (CFLs)</li>
    </ul>
    </li>
    <li>Light Emitting Diodes (LEDs) </li>
    <li>Halogen</li>
  </ul>
</body>
</html>
```

```
ul, menu, dir {
  display: block;
  list-style-type: disc;
  -webkit-margin-before: 1em;
  -webkit-margin-after: 1em;
  -webkit-margin-start: 0px;
  -webkit-margin-end: 0px;
  -webkit-padding-start: 40px;
}
```

margin -
border -
padding -
40 1184 x 36

We are going to explore the default CSS properties for the bullets and indenting using the web browser development tools.

Setup



html_lists_unordered folder

start folder

practice.html



practice folder



practice/practice.html
snippet.txt

This demo uses the Chrome Web Browser

If you like to follow along, copy the file in the activity's start folder and open the listed files in an editor.

Review The Starting Files

```
1 |html_ordered_unordered_lists_basics | Lon Hosford www.lonhosford.com
2
3 STEP 1: Add the ul Element
4     IN practice.html TYPE ON LINE 11.
5
6 <ul>
7
8 </ul>
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
12
13     <li>Incandescent</li>
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
17
18     <li>Fluorescent</li>
19     <li>Light Emitting Diodes (LEDs)</li>
20     <li>Halogen</li>
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
24
25     <li>Fluorescent
26
27     </li>
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
31
32     <ul>
33         <li>Tubes</li>
34         <li>Compact Fluorescent Lamps (CFLs)</li>
35     </ul>
36
37
38
```

snippets.txt

```
1 <!doctype html>
2 <!-- Light Bulbs | Lon Hosford | www.lonhosford.com-->
3 <html>
4 <head>
5 <meta charset="UTF-8">
6 <title>Light Bulbs</title>
7 </head>
8
9 <body>
10 <h1>Light Bulbs</h1>
11
12 </body>
13 </html>
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
```

practice.html

This is the snippets file and the starting HTML file.

Review The Starting Files

```
1 html_ordered_unordered_lists_basics | Lon Hosford www.lonhosford.com
2
3 STEP 1: Add the ul Element
4     IN practice.html TYPE ON LINE 11.
5
6 <ul>
7
8 </ul>
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
12
13 <li>Incandescent</li>
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
17
18 <li>Fluorescent</li>
19 <li>Light Emitting Diodes (LEDs)</li>
20 <li>Halogen</li>
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
24
25 <li>Fluorescent
26
27 </li>
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
31
32 <ul>
33     <li>Tubes</li>
34     <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
36
37
38
```

snippets.txt

```
1 <!doctype html>
2 <!-- Light Bulbs | Lon Hosford | www.lonhosford.com-->
3 <html>
4 <head>
5 <meta charset="UTF-8">
6 <title>Light Bulbs</title>
7 </head>
8
9 <body>
10 <h1>Light Bulbs</h1>
11
12 </body>
13 </html>
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
```

practice.html

The HTML file is a bare bones file with one h1 element for heading content. There is no added CSS styling.

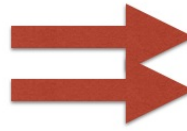
Review The Starting Files

Light Bulbs

If you open it in the web browser, you will just see a page heading.

Step I - Add the ul Element

```
2
3 STEP 1: Add the ul Element
4     IN practice.html TYPE ON LINE 11.
5
6 <ul>
7
8 </ul>
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
12
13     <li>Incandescent</li>
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
17
18     <li>Fluorescent</li>
19     <li>Light Emitting Diodes (LEDs)</li>
20     <li>Halogen</li>
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
24
25     <li>Fluorescent
26
27     </li>
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
31
32     <ul>
33         <li>Tubes</li>
34         <li>Compact Fluorescent Lamps (CFLs)</li>
35     </ul>
36
37
38
39
```



```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12
13 </ul>
14 </body>
15 </html>
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
```

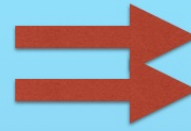
snippets.txt

practice.html

In the first step we are adding the ul element. Typically we will type it's open and close tags on separate lines.

Step I - Add the ul Element

```
2
3 STEP 1: Add the ul Element
4     IN practice.html TYPE ON LINE 11.
```



```
5
6 <ul>
7
8 </ul>
```

```
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
```

```
12
13 <li>Incandescent</li>
```

```
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE
```

```
17
18 <li>Fluorescent</li>
19 <li>Light Emitting Diodes (LEDs)</li>
20 <li>Halogen</li>
```

```
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
```

```
24
25 <li>Fluorescent
26
27 </li>
```

snippets.txt

```
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
```

```
31
32 <ul>
33 <li>Tubes</li>
34 <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
```

```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12
13 </ul>
14 </body>
15 </html>
```

ul Element Allowed Contents

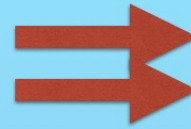
- * The li elements
- * White space

practice.html

The ul element is a container element for li elements. It can only contain white space and one or more li elements.

Step I - Add the ul Element

```
2
3 STEP 1: Add the ul Element
4     IN practice.html TYPE ON LINE 11.
```



```
5
6 <ul>
7
8 </ul>
```

```
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
```

```
12
13 <li>Incandescent</li>
```

```
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE
```

```
17
18 <li>Fluorescent</li>
19 <li>Light Emitting Diodes (LEDs)</li>
20 <li>Halogen</li>
```

```
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
```

```
24
25 <li>Fluorescent
26
27 </li>
```

snippets.txt

```
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
```

```
31
32 <ul>
33 <li>Tubes</li>
34 <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
```

```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12
13 </ul>
14 </body>
15 </html>
16
17
```

ul Element Allowed Contents

- * The li elements
- * White space
- * ~~Content and other HTML Element~~

practice.html

No content or other HTML elements are allowed inside the ul element.

Step 2 - Add the First li Element

```
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
12
13 <li>Incandescent</li>
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
17
18 <li>Fluorescent</li>
19 <li>Light Emitting Diodes (LEDs)</li>
20 <li>Halogen</li>
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
24
25 <li>Fluorescent
26
27 </li>
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
31
32 <ul>
33     <li>Tubes</li> snippets.txt
34     <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
36
37
38
39
40
41
42
43
44
45
46
```



```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12     <li>Incandescent</li>
13 </ul>
14 </body>
15 </html>
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
```

practice.html

For step 2, copy and paste the li element between the ul element's open and close tags.

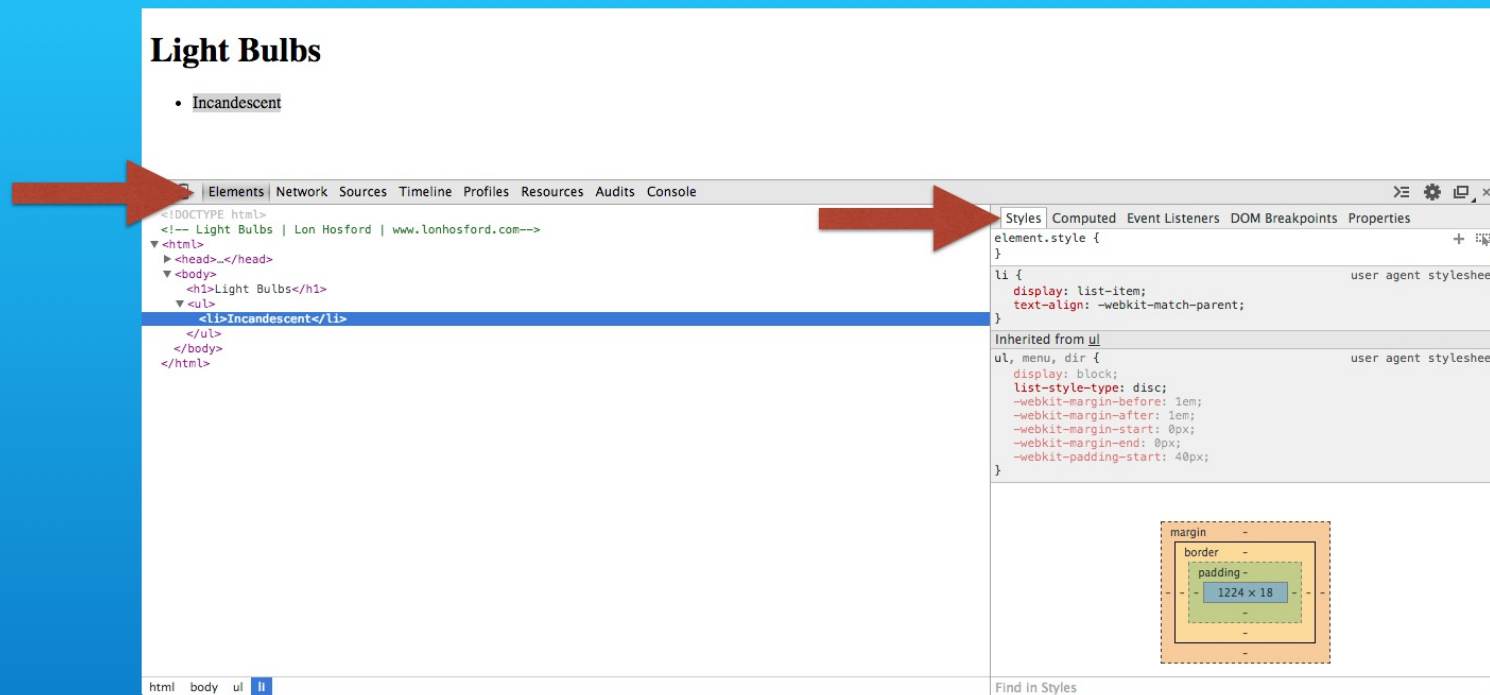
Testing in the Web Browser

Light Bulbs

- Incandescent

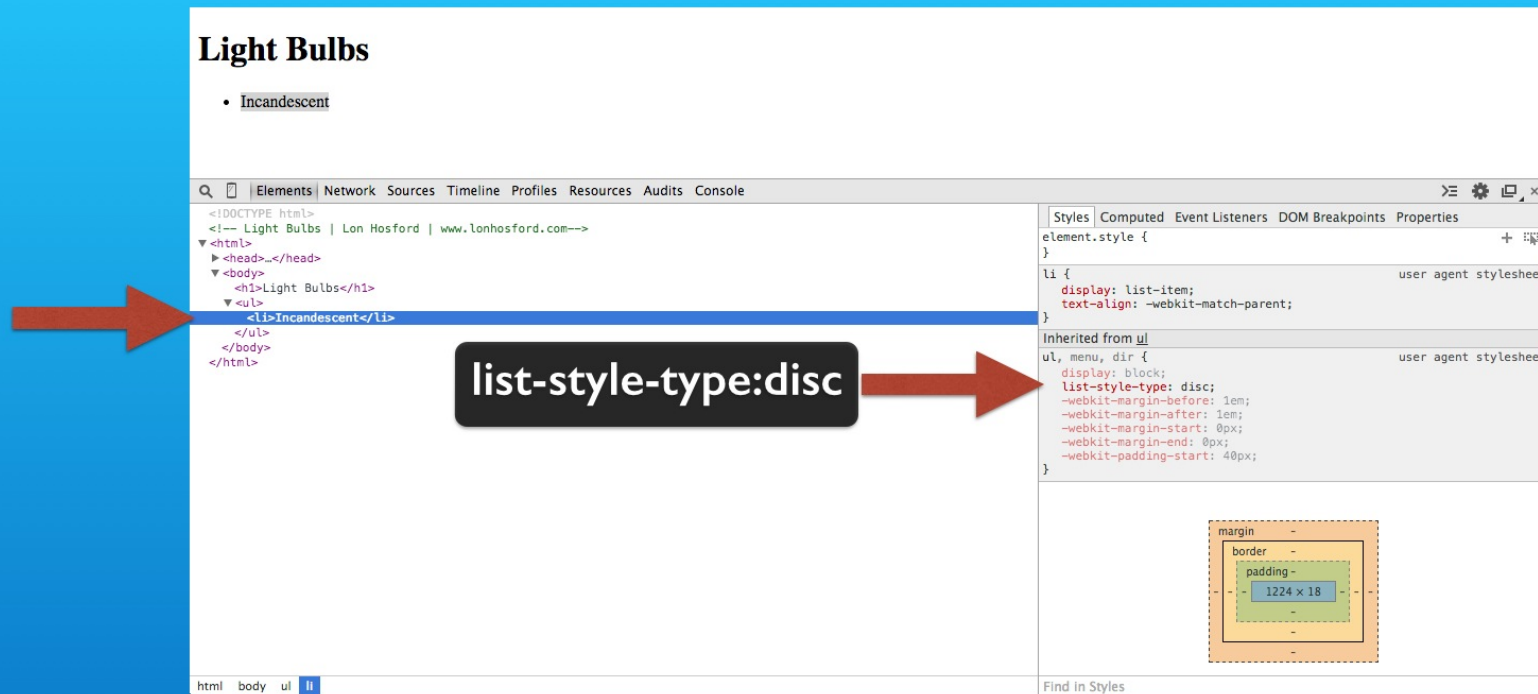
Save and in the web browser you see the beginnings of the list. The bullets have a default shape. And it may not be obvious at first, but there is indenting to the left of the bullets.

Testing in the Web Browser



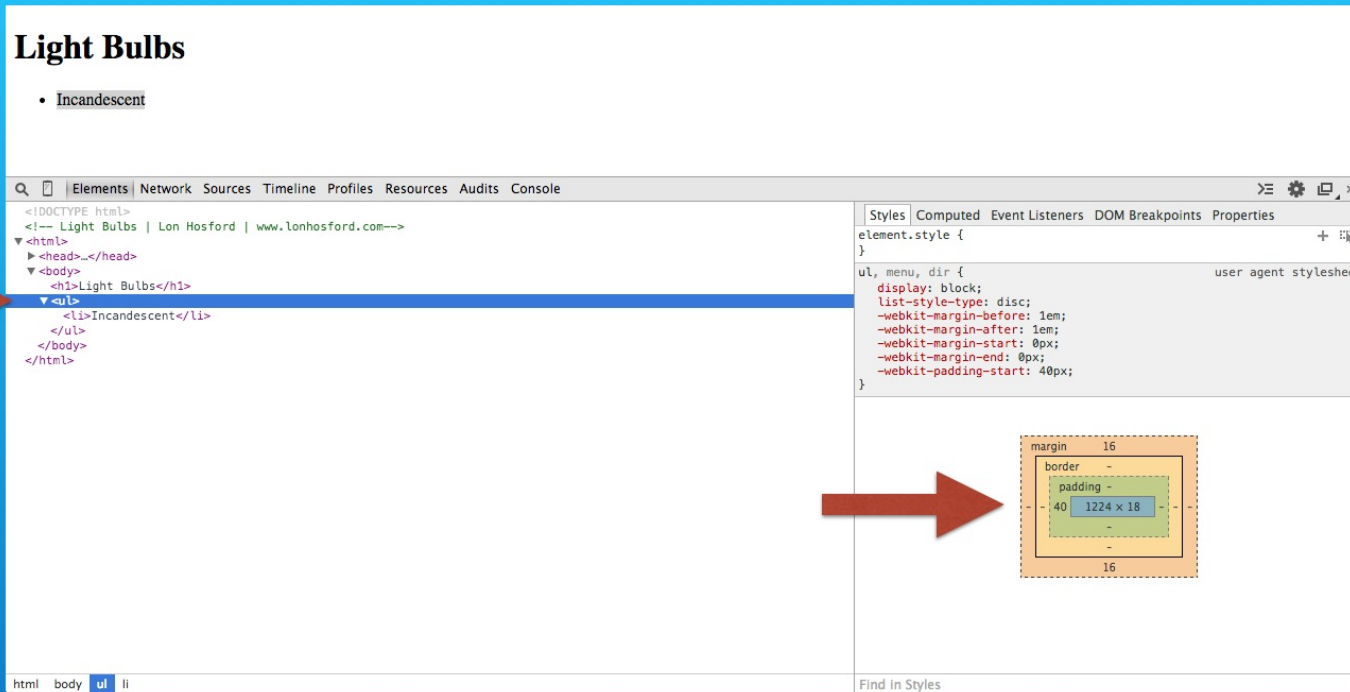
If you inspect the elements in your web browser developer tools, we can explore how these occur.

Testing in the Web Browser



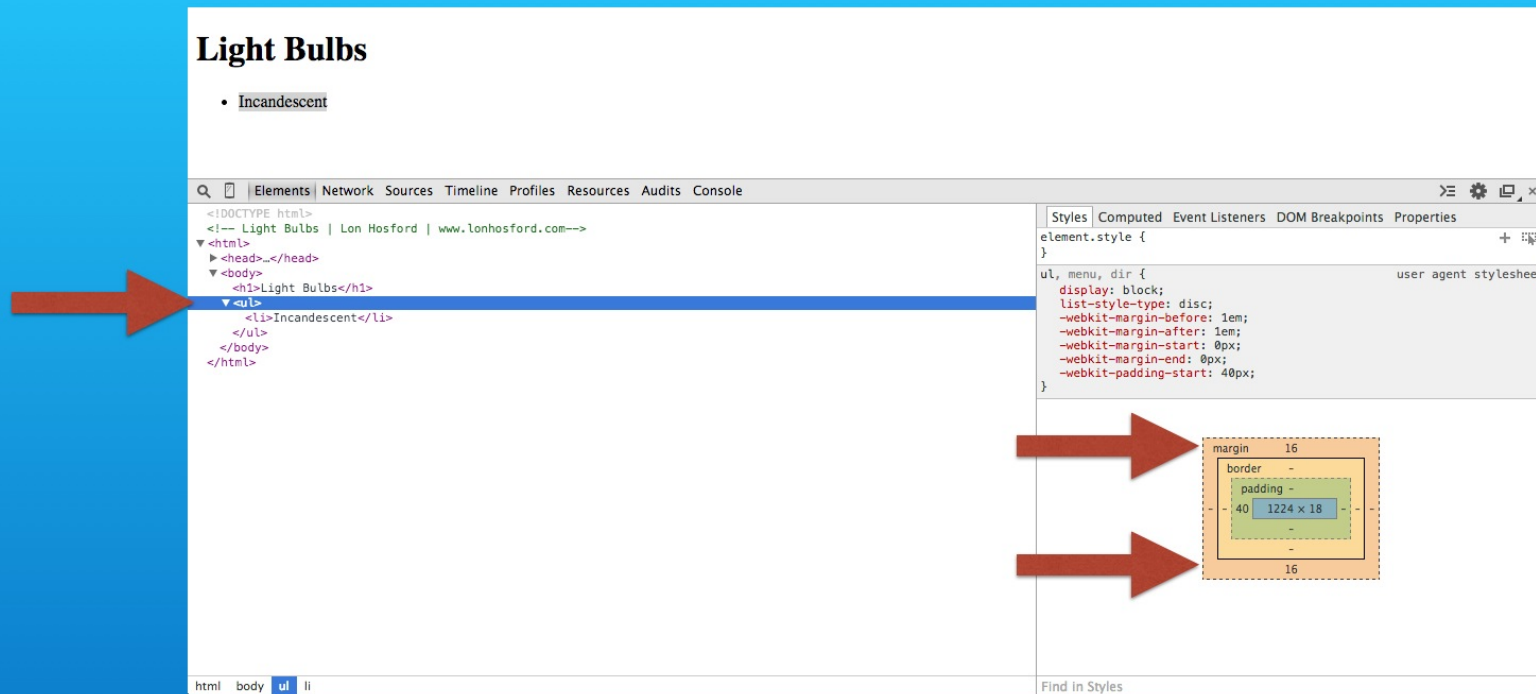
Start with the li element. You can see that the bullet style is set by the CSS list-style-type property. That property is inherited from its parent ul element container.

Testing in the Web Browser



Now select the ul element and open the box model panel. It is showing 40 pixels of left padding.

Testing in the Web Browser



There is also a top and bottom 16 pixel margin to the ul element. These are default CSS property values applied by the web browser. We can override them in our own style sheets.

Step 2 - Add the First li Element

```
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
```

```
12
13 <li>Incandescent</li>
```

```
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
```

```
17
18 <li>Fluorescent</li>
19 <li>Light Emitting Diodes (LEDs)</li>
20 <li>Halogen</li>
```

```
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>
```

```
24
25 <li>Fluorescent
26
27 </li>
```

```
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
```

```
31
32 <ul>
33     <li>Tubes</li>
34     <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
```

snippets.txt



```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12     <li>Incandescent</li>
13 </ul>
14 </body>
15 </html>
16
17
```

li Element Allowed Contents

- * Content and other HTML Elements
- * White space

practice.html

The li element is a container element for list content. You will find that it can pretty much contain any content along with most other HTML elements.

Step 2 - Add the First li Element

```
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
```

```
12
13 <li>Incandescent</li>
```

```
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
```

```
17
18 <li>Fluorescent</li>
19 <li>Light Emitting Diodes (LEDs)</li>
20 <li>Halogen</li>
```

```
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>
```

```
24
25 <li>Fluorescent
26
27 </li>
```

```
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
```

```
31
32 <ul>
33   <li>Tubes</li>
34   <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
```

snippets.txt



```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12   <li>Incandescent</li>
13 </ul>
14 </body>
15 </html>
16
17
```

li Element Allowed Contents

- * Content and other HTML Elements
- * White space
- * li Elements

practice.html

The first exception to note is that the li element cannot contain another li element.

Step 2 - Add the First li Element

```
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
```

```
12
13 <li>Incandescent</li>
```

```
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
```

```
17
18 <li>Fluorescent</li>
19 <li>Light Emitting Diodes (LEDs)</li>
20 <li>Halogen</li>
```

```
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
```

```
24
25 <li>Fluorescent
26
27 </li>
```

```
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
```

```
31
32 <ul>
33     <li>Tubes</li>
34     <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
```

snippets.txt



```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12     <li>Incandescent</li>
13 </ul>
14 </body>
15 </html>
```

li Tag Placement Alternatives
Incandescent

practice.html

For short list items, the open and close li tags are often put on the same code line.

Step 2 - Add the First li Element

```
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
```

```
12
13 <li>Incandescent</li>
```

```
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
```

```
17
18 <li>Fluorescent</li>
19 <li>Light Emitting Diodes (LEDs)</li>
20 <li>Halogen</li>
```

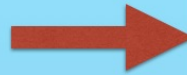
```
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
```

```
24
25 <li>Fluorescent
26
27 </li>
```

```
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
```

```
31
32 <ul>
33     <li>Tubes</li>
34     <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
```

snippets.txt



```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12     <li>Incandescent</li>
13 </ul>
14 </body>
15 </html>
```

li Tag Placement Alternatives

Incandescent

Incandescent

practice.html

However you can include the li tags on separate lines to suit your style. When you do, content is best indented inside the li tags.

Step 2 - Add the First li Element

```
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
```

```
12
13 <li>Incandescent</li>
```

```
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
```

```
17
18 <li>Fluorescent</li>
19 <li>Light Emitting Diodes (LEDs)</li>
20 <li>Halogen</li>
```

```
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
```

```
24
25 <li>Fluorescent
26
27 </li>
```

```
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
```

```
31
32 <ul>
33     <li>Tubes</li>
34     <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
```

snippets.txt



```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12     <li>Incandescent</li>
13 </ul>
14 </body>
15 </html>
```

li Element Parent Elements

- * ul
- * ol
- * menu

practice.html

The li element can only be used inside of the ul element, the ol and menu elements. The ol element is for numbered lists. We will cover it in a separate lesson.

Step 2 - Add the First li Element

9
10 STEP 2: Add the first li Element
11 IN practice.html TYPE ON LINE 12.

12
13 `Incandescent`

14
15 STEP 3: Add the remaining li Elements
16 IN practice.html BETWEEN LINES 12 and 13 PASTE.

17
18 `Fluorescent`
19 `Light Emitting Diodes (LEDs)`
20 `Halogen`

21
22 STEP 4: Add a blank line after Fluorescent
23 IN practice.html ADD BLANK LINE BETWEEN Fluorescent and .

24
25 `Fluorescent`
26
27 ``

28
29 STEP 5: Paste in completed ul list
30 IN practice.html INSERT ON LINE 14

31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46



9 `<body>`
10 `<h1>Light Bulbs</h1>`
11 ``
12 `Incandescent`
13 ``
14 `</body>`
15 `</html>`
16
17

li Element Parent Elements

- * `ul`
- * `ol`
- * `menu`

18
19
20
21
22
23
24
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26
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28
29
30
31
32
33
34
35
36
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44
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46

Currently the web browser compatibility is not stable for the menu element.

The menu element is a semantic version of the ul element. This means it implies that the content is intended as a menu and not a list.

Step 3 - Add the Remaining li Elements

```
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
```

```
17
18 <li>Fluorescent</li>
19 <li>Light Emitting Diodes (LEDs)</li>
20 <li>Halogen</li>
```

```
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
```

```
24
25 <li>Fluorescent
26
27 </li>
```

```
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
```

```
31
32 <ul>
33     <li>Tubes</li>
34     <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
```

snippets.txt



```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12     <li>Incandescent</li>
13     <li>Fluorescent</li>
14     <li>Light Emitting Diodes (LEDs)</li>
15     <li>Halogen</li>
16 </ul>
17 </body>
18 </html>
```

practice.html

For the next step you can copy and paste the remaining li elements. Place them under the one we have already added.

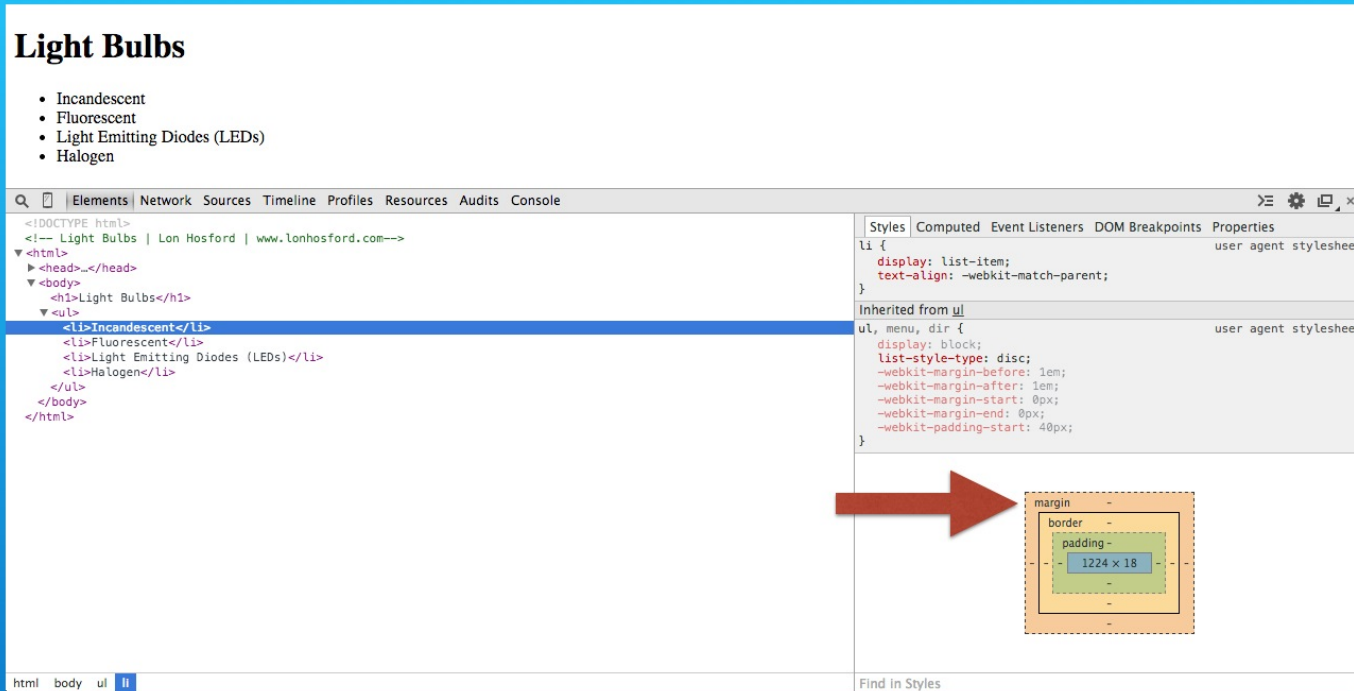
Testing in the Web Browser

Light Bulbs

- Incandescent
- Fluorescent
- Light Emitting Diodes (LEDs)
- Halogen

In the web browser you see that each list element starts on a new line and the same bullet shape is repeated.

Testing in the Web Browser



The spacing between `li` elements can be adjusted through the CSS box model margin and border properties.

Testing in the Web Browser

Light Bulbs

- Incandescent
- Fluorescent
- Light Emitting Diodes (LEDs)
- Halogen

Simple List Item Line Spacing

Use the p element for line spacing.

```
<li><p>Incandescent</p></li>
```

Keep in mind other elements like the p element may add margins and padding. This another way to create space between the li elements.

Testing in the Web Browser

Light Bulbs

- Incandescent
- Fluorescent
- Light Emitting Diodes (LEDs)
- Halogen

Next lets add a list for two types of Fluorescent bulbs. We will want it to be indented as a second level list under the Fluorescent bulb list item.

Step 4: Add a blank line after Fluorescent

```
21
22 STEP 4: Add a blank line after Fluorescent
23     IN practice.html ADD BLANK LINE BETWEEN Fluorescent and </li>.
```

```
24
25 <li>Fluorescent
26
27 </li>
```

```
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
31
32 <ul>
33     <li>Tubes</li>
34     <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
```

snippets.txt

```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12     <li>Incandescent</li>
13     <li>Fluorescent
14
15 </li>
16     <li>Light Emitting Diodes (LEDs)</li>
17     <li>Halogen</li>
18 </ul>
19 </body>
20 </html>
```

practice.html

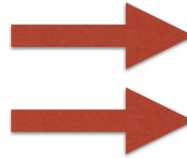
First we will add some white space inside the li element for Fluorescent bulbs. Add a blank line after the word Fluorescent. Align the open and close li element indenting.

Step 5: Paste In The Completed ul List

```
28
29 STEP 5: Paste in completed ul list
30     IN practice.html INSERT ON LINE 14
```

```
31
32 <ul>
33   <li>Tubes</li>
34   <li>Compact Fluorescent Lamps (CFLs)</li>
35 </ul>
```

snippets.txt



```
9 <body>
10 <h1>Light Bulbs</h1>
11 <ul>
12   <li>Incandescent</li>
13   <li>Fluorescent
14     <ul>
15       <li>Tubes</li>
16       <li>Compact Fluorescent Lamps (CFLs)</li>
17     </ul>
18   </li>
19   <li>Light Emitting Diodes (LEDs)</li>
20   <li>Halogen</li>
21 </ul>
22 </body>
23 </html>
```

practice.html

Now copy the ul element in step 5. Paste it in the blank line we created. Notice how the indenting helps show the HTML container nesting in the code.

Testing in the Web Browser

Light Bulbs

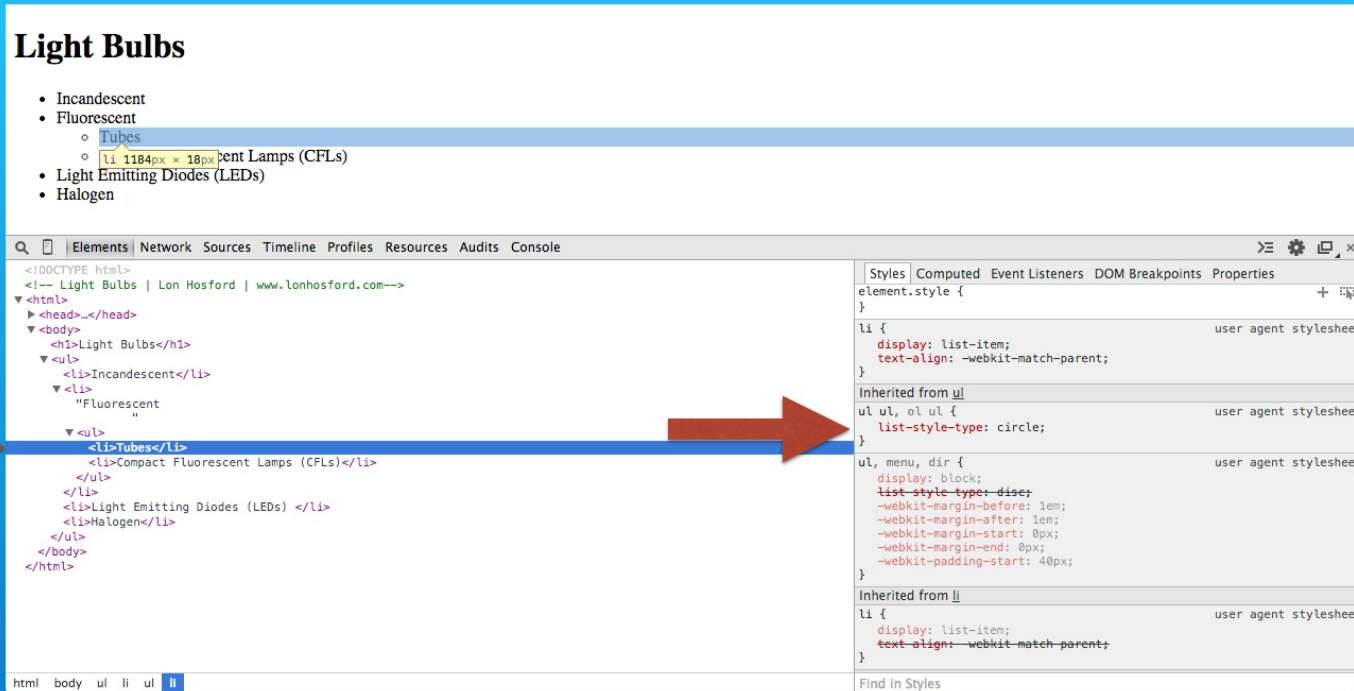
- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

Save and check it out in the web browser. You can see that we have a different bullet symbol and more indenting. Lets explore them further in the web developer tools

Testing in the Web Browser

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - 1184px x 18px Compact Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen



The screenshot shows a web browser with a page titled "Light Bulbs" from "Lon Hosford | www.lonhosford.com". The page contains a list of light bulb types. The "Fluorescent" category is expanded, showing "Tubes" and "Compact Lamps (CFLs)". The "Tubes" item is selected, and the browser's developer tools are open, showing the HTML structure and the CSS styles for the selected element.

The HTML structure shows the following elements:

```
<!DOCTYPE html>
<!-- Light Bulbs | Lon Hosford | www.lonhosford.com-->
<html>
<head>...</head>
<body>
<h1>Light Bulbs</h1>
<ul>
<li>Incandescent</li>
<li>Fluorescent
  <ul>
<li>Tubes</li>
<li>Compact Fluorescent Lamps (CFLs)</li>
</ul>
</li>
<li>Light Emitting Diodes (LEDs) </li>
<li>Halogen</li>
</ul>
</body>
</html>
```

The CSS styles for the selected element (li) are shown in the right pane:

```
element.style {
}

li {
  display: list-item;
  text-align: -webkit-match-parent;
}

Inherited from ul:
ul, ol, ul {
  list-style-type: circle;
}

ul, menu, dir {
  display: block;
  list-style-type: disc;
  -webkit-margin-before: 1em;
  -webkit-margin-after: 1em;
  -webkit-margin-start: 0px;
  -webkit-margin-end: 0px;
  -webkit-padding-start: 40px;
}

Inherited from li:
li {
  display: list-item;
  text-align: -webkit-match-parent;
}
```

Select the li element for the Tubes list item. You can see its list-style-property is set to circle.

Testing in the Web Browser

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

li Element Default Bullet Symbols

- disc Top level
- circle Second level
- square Third level

HTML structure (Elements panel):

```
<!DOCTYPE html>
<!-- Light Bulbs | Lon Hosford | www.lonhosford.com -->
<html>
<head>...</head>
<body>
<h1>Light Bulbs</h1>
<ul>
<li>Incandescent</li>
<li>Fluorescent
  "Fluorescent"
</li>
<li>Tubes</li>
<li>Compact Fluorescent Lamps (CFLs)</li>
</ul>
<li>Light Emitting Diodes (LEDs) </li>
<li>Halogen</li>
</ul>
</body>
</html>
```

Styles panel (li element):

```
element.style {
  display: list-item;
  text-align: -webkit-match-parent;
}
user agent stylesheet

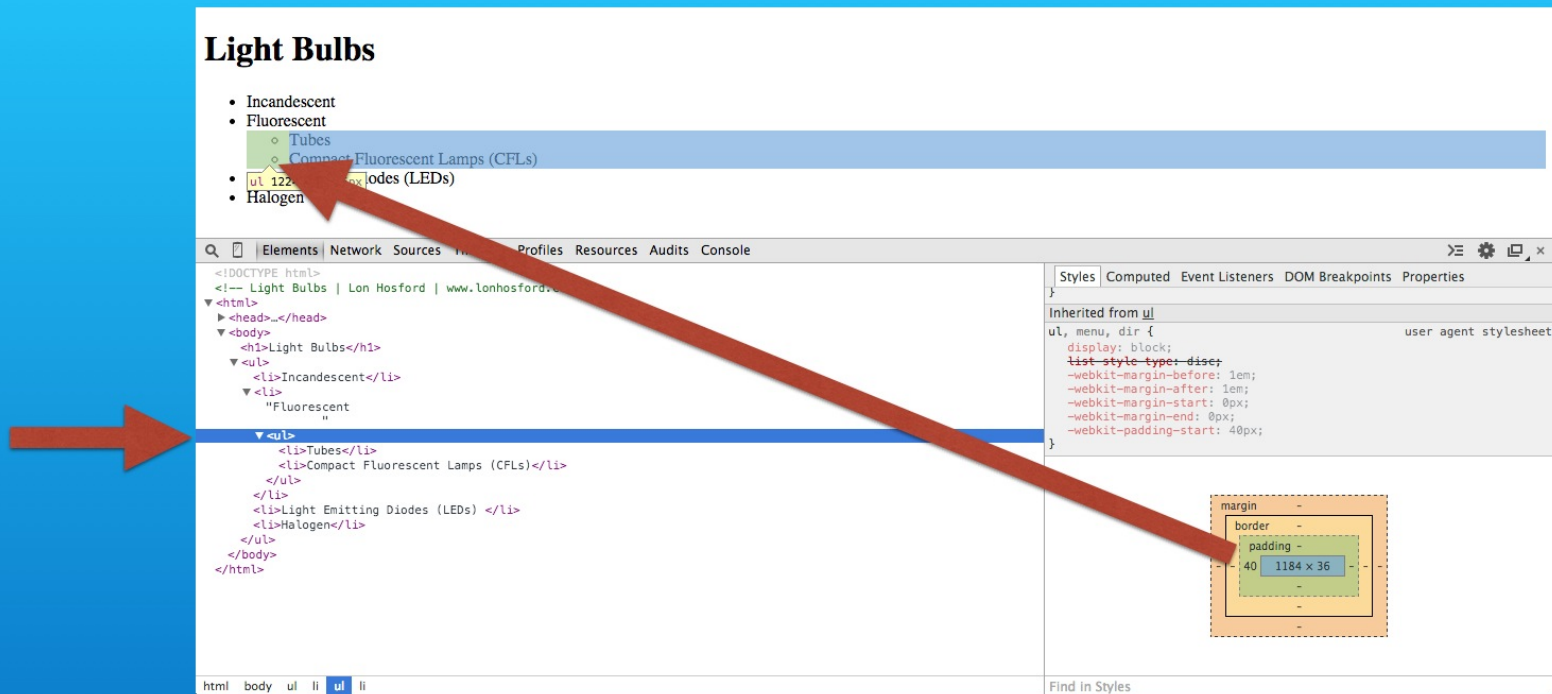
li {
  list-style-type: circle;
}
user agent stylesheet

li {
  list-style-type: square;
}
user agent stylesheet

Inherited from li
li {
  display: list-item;
  text-align: -webkit-match-parent;
}
```

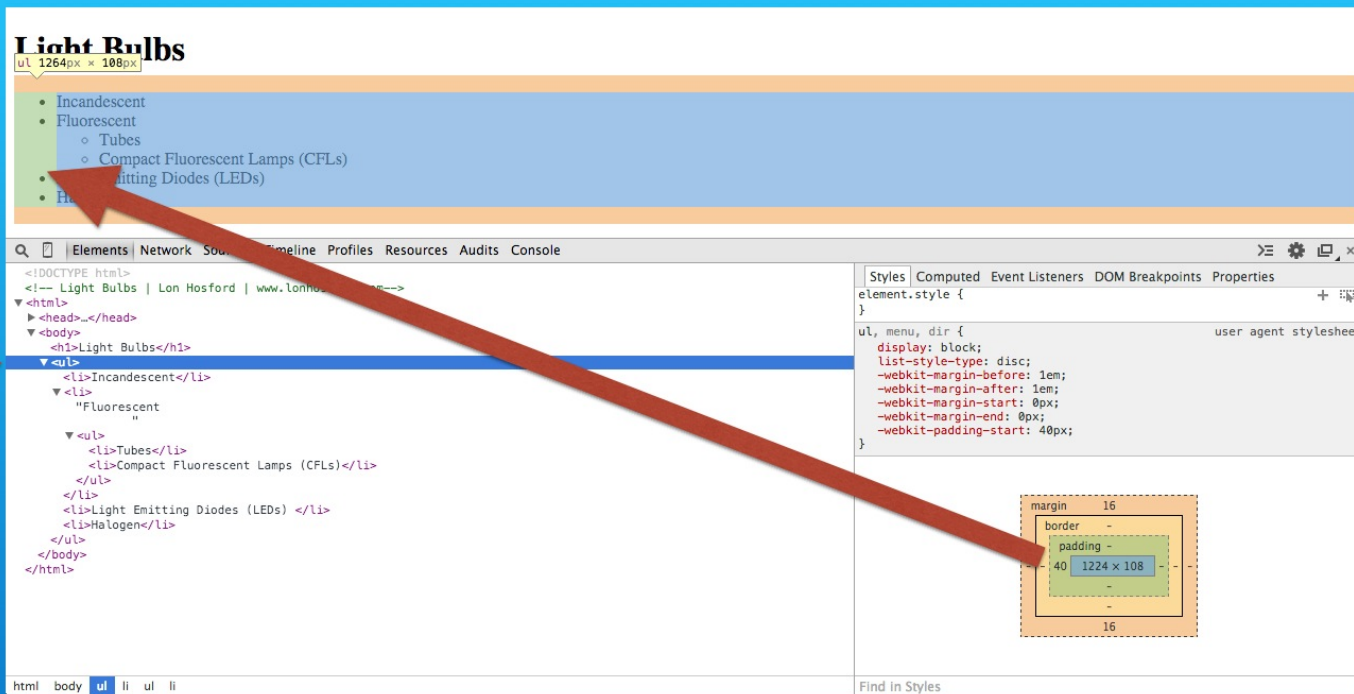
These are the default bullet shapes typically applied by web browsers. After the third level the bullet shapes are repeated for the next three levels.

Testing in the Web Browser



If you hover over the inner ul element, your web browser may visually show you the padding highlighted for the list elements. Notice that the bullets sit inside the padding.

Testing in the Web Browser



Try it with the outer ul element and it may be more obvious.

Summary

- * **Understand the ul and li elements**
- * Create a basic one level bullet list
- * Learn how nest ul elements
- * View and test with web browser

```
<ul>  
  <li></li>  
  <li></li>  
</ul>
```

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

Well that completes this exercise. We took our first dive into HTML lists using the ul and li elements. Without much effort they provide a default list layout for basic bulleted lists.

Summary

- * **Understand the ul and li elements**
- * Create a basic one level bullet list
- * Learn how nest ul elements
- * View and test with web browser

Light Bulbs

- Incandescent
- Fluorescent
- Light Emitting Diodes (LEDs)
- Halogen

```
<ul>  
  <li></li>  
  <li></li>  
</ul>
```

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

Without much effort they provided a default list layout for basic bulleted lists.

Summary

- * Understand the ul and li elements

ul Element Allowed Contents

- * The li elements
- * White space
- * Content and other HTML Element

- * View and test with web browser



```
<ul>  
  <li></li>  
  <li></li>  
</ul>
```

The ul and li elements work as a team. The ul element is the list container. It can only contain li elements and white space.

Summary

- * Understand the ul and li elements

li Element Allowed Contents

- * Content and other HTML Elements
- * White space
- * li Elements

- * View and test with web browser

```
<ul>  
  <li>abc</li>  
  <li><p>abc</p></li>  
</ul>
```

The li elements are containers for the list item content including most HTML elements as needed.

Summary

- * Understand the ul and li elements

li Element Parent Elements

- * ul

- * ol

- * menu

- * View and test with web browser

```
<ul>  
  <li></li>  
  <li></li>  
</ul>
```

```
<h1><li></li></h1>  
<p><li></li></p>  
<li><li></li></li>
```

We also found that the li element is restricted to specific allowable parent elements. You cannot put a li element in a p element for example.

Summary

- * Understand the ul and li elements
- * Create a basic one level bullet list
- * Learn how nest ul elements
- * View and test with web browser

```
<ul>  
  <li>Incandescent</li>  
  <li>Fluorescent</li>  
</ul>
```



Light Bulbs

- Incandescent
- Fluorescent
- Light Emitting Diodes (LEDs)
- Halogen

The ul and li elements create a bulleted list. There is a left padding and a predefined set of bullet shapes. Each list item is rendered on a new line.

Summary

- * Understand the ul and li elements
- * Create a basic one level bullet list
- * Learn how nest ul elements
- * View and test with web browser

```
<li>Fluorescent
  <ul>
    <li>Tubes</li>
    <li>Compact . . .</li>
  </ul>
</li>
```



Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

The li element can contain other lists creating an outlining effect.

Summary

li Element Default Bullet Symbols



disc	Top level
circle	Second level
square	Third level

- * Understand the ul and li elements
- * Create a basic one level bullet list

* Learn how nest ul elements

* View and test with web browser

```
<li>Fluorescent
  <ul>
    <li>Tubes</li>
    <li>Compact . . .</li>
  </ul>
</li>
```



Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

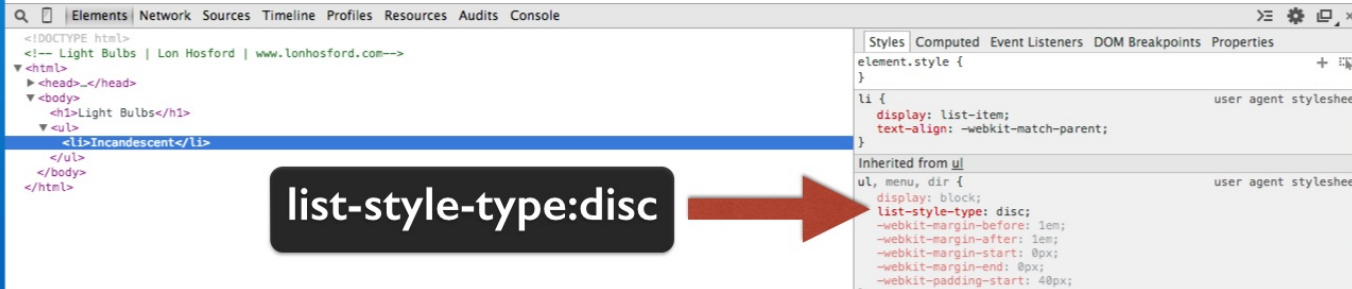
There are default bullet shapes assigned to each of the first three levels of nested lists. Then they are repeated for additional levels.

Summary

- * Understand the ul and li elements
- * Create a basic one level bullet list
- * Learn how nest ul elements
- * View and test with web browser

Light Bulbs

- Incandescent



Our field trip to the web browser developer tools revealed the CSS property setting the bullet shapes. The values are defaulted by the web browser until we choose alternatives using CSS.

Summary

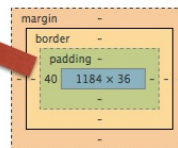
- * Understand the ul and li elements
- * Create a basic one level bullet list
- * Learn how nest ul elements
- * View and test with web browser

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- - Light Emitting Diodes (LEDs)
- Halogen

```
<!DOCTYPE html>
<!-- Light Bulbs | Lon Hosford | www.lonhosford.com -->
<html>
<head>_</head>
<body>
<h1>Light Bulbs</h1>
<ul>
<li>Incandescent</li>
<li>Fluorescent
  <ul>
<li>Tubes</li>
<li>Compact Fluorescent Lamps (CFLs)</li>
</ul>
</li>
<li>Light Emitting Diodes (LEDs) </li>
<li>Halogen</li>
</ul>
</body>
</html>
```

```
ul, li {
  display: inline-block;
  vertical-align: top;
  list-style-type: none;
  padding-left: 40px;
  margin: 1em 0;
}
```



Also revealed is that the ul element has left padding applied by the web browser styling. The list bullets are positioned inside that padding area.

Summary

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

Understand the ul and li elements

* Create a basic one level bullet list

* Learn how to change a light bulb

* View and

How to Change a Light Bulb

1. Get a replacement with recommended wattage.

Warning! Bulbs that generate heat such as incandescent bulbs can create a fire hazard.

2. Disconnect the power supply. Turn off at the wall, socket or lamp
3. Wait until bulb is cool to touch
4. Wear safety gloves. Bulbs can break and some are toxic if they do break.
5. Unscrew the old bulb.
6. Screw in the replacement bulb.
7. Connect the power supply.
8. Dispose old bulb safely.
 - Follow any manufacture recommendations.
 - Obey local laws.
 - Keep out of reach of children.



BONUS

Much of what you learned with the ul element applies to the ol element used for auto numbering lists.

Summary

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

• The li element

How to Change a Light Bulb

1. Get a replacement with recommended wattage.

Warning! Bulbs that generate heat such as incandescent bulbs can create a fire hazard.

2. Disconnect the power supply. Turn off at the wall, socket or lamp
3. Wait until bulb is cool to touch
4. Wear safety gloves. Bulbs can break and some are toxic if they do break.
5. Unscrew the old bulb.
6. Screw in the replacement bulb.
7. Connect the power supply.
8. Dispose old bulb safely.
 - Follow any manufacture recommendations.
 - Obey local laws.
 - Keep out of reach of children.



BONUS

Both use the li element as their only inner element and no other content other than white space for code styling.

Summary

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

- The li element
- Nesting

How to Change a Light Bulb

1. Get a replacement with recommended wattage.

Warning! Bulbs that generate heat such as incandescent bulbs can create a fire hazard.

2. Disconnect the power supply. Turn off at the wall, socket or lamp
3. Wait until bulb is cool to touch
4. Wear safety gloves. Bulbs can break and some are toxic if they do break.
5. Unscrew the old bulb.
6. Screw in the replacement bulb.
7. Connect the power supply.
8. Dispose old bulb safely.
 - Follow any manufacture recommendations.
 - Obey local laws.
 - Keep out of reach of children.



BONUS

They can be interchangeably nested. A numbered list item can contain a bulleted list. And a bulleted list item can contain a numbered list.

Summary

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

- The li element
- Nesting
- Labels
(bullets and numbering)

How to Change a Light Bulb

1. Get a replacement with recommended wattage.

Warning! Bulbs that generate heat such as incandescent bulbs can create a fire hazard.

2. Disconnect the power supply. Turn off at the wall, socket or lamp
3. Wait until bulb is cool to touch
4. Wear safety gloves. Bulbs can break and some are toxic if they do break.
5. Unscrew the old bulb.
6. Screw in the replacement bulb.
7. Connect the power supply.
8. Dispose old bulb safely.
 - Follow any manufacture recommendations.
 - Obey local laws.
 - Keep out of reach of children.



BONUS

Both have default list item labels. The ul element uses bullet shapes and ol elements use numbers.

Summary

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

- The li element
- Nesting
- Labels
(bullets and numbering)
- Left padding

How to Change a Light Bulb

1. Get a replacement with recommended wattage.

Warning! Bulbs that generate heat such as incandescent bulbs can create a fire hazard.

2. Disconnect the power supply. Turn off at the wall, socket or lamp
3. Wait until bulb is cool to touch
4. Wear safety gloves. Bulbs can break and some are toxic if they do break.
5. Unscrew the old bulb.
6. Screw in the replacement bulb.
7. Connect the power supply.
8. Dispose old bulb safely.
 - Follow any manufacture recommendations.
 - Obey local laws.
 - Keep out of reach of children.



BONUS

Both ul and ol elements have a left padding where the list item labels are positioned.

Summary

Light Bulbs

- Incandescent
- Fluorescent
 - Tubes
 - Compact Fluorescent Lamps (CFLs)
- Light Emitting Diodes (LEDs)
- Halogen

- The li element
- Nesting
- Labels
(bullets and numbering)
- Left padding
- More to Come

How to Change a Light Bulb

1. Get a replacement with recommended wattage.

Warning! Bulbs that generate heat such as incandescent bulbs can create a fire hazard.

2. Disconnect the power supply. Turn off at the wall, socket or lamp
3. Wait until bulb is cool to touch
4. Wear safety gloves. Bulbs can break and some are toxic if they do break.
5. Unscrew the old bulb.
6. Screw in the replacement bulb.
7. Connect the power supply.
8. Dispose old bulb safely.
 - Follow any manufacture recommendations.
 - Obey local laws.
 - Keep out of reach of children.



BONUS

There are some additional twists that relate to only ol elements that we will take on in another exercise. So try it out while you are fresh on the trail of learning about HTML lists using the lesson in this section.

How To Create Unordered HTML Lists

With Lon Hosford

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This is a Visual Step by Step Workbook and voice transcript for accompanying video for this portion of the course.

