

# **How To Create Ordered HTML Lists**

**With Lon Hosford**

Copyright 2014 Lon Hosford. All Rights Reserved. [www.lonhosford.com](http://www.lonhosford.com)

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

# Introduction

## Ordered Lists

### How to Change a Light Bulb

### How to Change a Light Bulb

1. Get a replacement with recommended wattage.

### How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.

Now that you have worked with bulleted lists, you will find that ordered lists are very similar.

# Introduction

Ordered Lists

Numbered Lists

## How to Change a Light Bulb

## How to Change a Light Bulb

1. Get a replacement with recommended wattage.

## How to Change a Light Bulb

- 
1. Get a replacement with recommended wattage.
  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.

Ordered lists are also called numbered lists. This is because the list items are automatically numbered sequentially.

# Introduction

## Ordered Lists

## Numbered Lists

## Mixed Nested Lists

### How to Change a Light Bulb

### How to Change a Light Bulb

1. Get a replacement with recommended wattage.

### How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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 properly.

### Light Bulbs

- Common Types
  - Incandescent
  - Fluorescent
    - Tubes
    - Compact Fluorescent Lamps (CFLs)
  - Light Emitting Diodes (LEDs)
  - Halogen
- How to Change a Lightbulb
  1. Get a replacement with recommended wattage.
  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
  5. Unscrew the old bulb.
  6. Screw in the replacement bulb.

Numbered lists can also be nested with bulleted lists.

# Introduction

## Ordered Lists

### How to Change a Light Bulb

### How to Change a Light Bulb

1. Get a replacement with recommended wattage.

### How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.

### Light Bulbs

- Common Types
  - Incandescent
  - Fluorescent
    - Tubes
    - Compact Fluorescent Lamps (CFLs)
  - Light Emitting Diodes (LEDs)
  - Halogen
- How to Change a Lightbulb
  1. Get a replacement with recommended wattage.
  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
  5. Unscrew the old bulb.
  6. Screw in the replacement bulb.

## Numbered Lists

### How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.

## Mixed Nested Lists

You are free to assemble numbered lists and bulleted lists as you like for your outlining needs.

# Introduction

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

```
<ol>  
  <li></li>  
  <li></li>  
  <li></li>  
</ol>
```



We are going to start by learning how the ol element teams up with li elements in the same way the ul element does.

# Introduction

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

```
<ol>  
  <li></li>  
  <li></li>  
  <li></li>  
</ol>
```



## How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.

That lets us quickly put a numbered instruction list together.

# Introduction

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

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



## How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.
  - o Follow any manufacture recommendations.
  - o Obey local laws.
  - o Keep out of reach of children.

Then we will nest a bulleted list inside one of the number list items.

# Introduction

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

## How to Change a Light Bulb

1. Get a replacement with recommended wattage

The screenshot shows the browser's developer tools with the following details:

- Elements Panel:** Shows the HTML structure: `<ol><li>Get a replacement with recommended wattage</li></ol>`. The `ol` element is selected, and its dimensions are shown as 1264px by 18px.
- Styles Panel:** Shows the default user agent styles for the `ol` element:

```
ol {
  display: block;
  list-style-type: decimal;
  -webkit-margin-before: 1em;
  -webkit-margin-after: 1em;
  -webkit-margin-start: 0px;
  -webkit-margin-end: 0px;
  -webkit-padding-start: 40px;
}
```
- Computed Panel:** Shows the computed styles for the selected `li` element:

```
-webkit-margin-end: 0px;
-webkit-padding-start: 40px;
```
- Box Model:** A visual representation of the `li` element's box model is shown, with a margin of 16px, padding of 40px, and a width of 1224px by a height of 18px.

## How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.
  - o Follow any manufacture recommendations.
  - o Obey local laws.
  - o Keep out of reach of children.

As we create the list, we will use the web developer tools to inspect the styling and positioning.

# Setup



**html\_lists\_ordered folder**

**start folder**

**practice.html**



**practice folder**



**practice/practice.html**  
**snippet.txt**

**This demo uses the Chrome Web Browser**

To follow the steps, copy the file in the activity's start folder and open the listed files in an editor.

# Review The Starting Files

```
1 html_ordered_list_basics | Lon Hosford www.lonhosford.com
2
3 STEP 1: Add the ol Element
4     IN practice.html TYPE ON LINE 11.
5
6 <ol>
7
8 </ol>
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
12
13     <li>Get a replacement with recommended wattage</li>
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
17
18     <li>Disconnect the power supply. Turn off at the wall, socket or lamp.<
19     /li>
20     <li>Wait until bulb is cool to touch.</li>
21     <li>Wear safety gloves. Bulbs can break and some are toxic if they do
22     break.</li>
23     <li>Unscrew the old bulb.</li>
24     <li>Screw in the replacement bulb.</li>
25     <li>Connect the power safely.</li>
26     <li>Dispose old bulb safely.</li>
27
28 STEP 4: Add a blank line after last li element
29     IN practice.html ON LINE 19 ADD BLANK LINE BETWEEN Dispose old bulb
30     safely. and </li>.
31
32     <li>Dispose old bulb safely.
33
34     </li>
35
36 STEP 5: Paste in completed ul list
37     IN practice.html INSERT ON LINE 20
38
```



```
1 <!doctype html>
2 <!-- How to Change a Light Bulb | Lon Hosford | www.lonhosford.com-->
3 <html>
4 <head>
5 <meta charset="UTF-8">
6 <title>How to Change a Light Bulb | Lon Hosford</title>
7 </head>
8
9 <body>
10 <h1>How to Change a Light Bulb</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
```

snippets.txt

practice.html

Here we have the snippets file and the starting HTML file.

# Review The Starting Files

```
1 html_ordered_list_basics | Lon Hosford www.lonhosford.com
2
3 STEP 1: Add the ol Element
4     IN practice.html TYPE ON LINE 11.
5
6 <ol>
7
8 </ol>
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
12
13     <li>Get a replacement with recommended wattage</li>
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
17
18     <li>Disconnect the power supply. Turn off at the wall, socket or lamp.<
19     /li>
20     <li>Wait until bulb is cool to touch.</li>
21     <li>Wear safety gloves. Bulbs can break and some are toxic if they do
22     break.</li>
23     <li>Unscrew the old bulb.</li>
24     <li>Screw in the replacement bulb.</li>
25     <li>Connect the power supply.</li>
26     <li>Dispose old bulb safely.</li>
27
28 STEP 4: Add a blank line after last li element
29     IN practice.html ON LINE 19 ADD BLANK LINE BETWEEN Dispose old bulb
30     safely. and </li>.
31
32     <li>Dispose old bulb safely.
33
34     </li>
35
36 STEP 5: Paste in completed ul list
37     IN practice.html INSERT ON LINE 20
38
```

snippets.txt



```
1 <!doctype html>
2 <!-- How to Change a Light Bulb | Lon Hosford | www.lonhosford.com-->
3 <html>
4 <head>
5 <meta charset="UTF-8">
6 <title>How to Change a Light Bulb | Lon Hosford</title>
7 </head>
8
9 <body>
10 <h1>How to Change a Light Bulb</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

We are using a basic HTML file with no added CSS styling. It has one h1 element for a page heading.

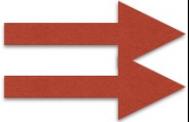
# Review The Starting Files

**How to Change a Light Bulb**

In the web browser just the page heading shows at this point.

# Step 1 - Add the ol element

```
2
3 STEP 1: Add the ol Element
4     IN practice.html TYPE ON LINE 11.
5
6 <ol>
7
8 </ol>
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
12
13     <li>Get a replacement with recommended wattage</li>
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
17
18     <li>Disconnect the power supply. Turn off at the wall, socket or lamp.<
19     /li>
20     <li>Wait until bulb is cool to touch.</li>
21     <li>Wear safety gloves. Bulbs can break and some are toxic if they do
22     break.</li>
23     <li>Unscrew the old bulb.</li>
24     <li>Screw in the replacement bulb.</li>
25     <li>Connect the power supply.</li>
26     <li>Dispose old bulb safely.
27
28 STEP 4: Add a blank line after last li element
29     IN practice.html ON LINE 19 ADD BLANK LINE BETWEEN Dispose old bulb
30     safely. and </li>.
31
32     <li>Dispose old bulb safely.
33
34     </li>
35
36 STEP 5: Paste in completed ul list
37     IN practice.html INSERT ON LINE 20
38
39     <ul>
40
41
42
43
44
45
46
```



```
9 <body>
10 <h1>How to Change a Light Bulb</h1>
11 <ol>
12
13 </ol>
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

The first step is to add the ol element after the h1 element. Put the ol element tags on separate lines with a blank line in between.

# Step 1 - Add the ol element

```
2
3 STEP 1: Add the ol Element
4     IN practice.html TYPE ON LINE 11.
5
6 <ol>
7
8 </ol>
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
12
13 <li>Get a replacement with recommended wattage</li>
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE
17
18 <li>Disconnect the power supply. Turn off at the wall, socket or lamp.<
19 /li>
20 <li>Wait until bulb is cool to touch.</li>
21 <li>Wear safety gloves. Bulbs can break and some are toxic if they do
22 break.</li>
23 <li>Unscrew the old bulb.</li>
24 <li>Screw in the replacement bulb.</li>
25 <li>Connect the power supply.</li>
26 <li>Dispose old bulb safely.</li>
27
28 STEP 4: Add a blank line after last li element
29     IN practice.html ON LINE 19 ADD BLANK LINE BETWEEN Dispose old bulb
30 safely. and </li>.
31
32 <li>Dispose old bulb safely.
33
34 </li>
35
36 STEP 5: Paste in completed ul list
37     IN practice.html INSERT ON LINE 20
38
39 <ul>
```



```
9 <body>
10 <h1>How to Change a Light Bulb</h1>
11 <ol>
12
13 </ol>
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
```

**ol Element Allowed Contents**

- \* The li elements
- \* White space

snippets.txt

practice.html

The ol element is a container that only can contain white space and one or more li elements.

# Step 1 - Add the ol element

```
2
3 STEP 1: Add the ol Element
4     IN practice.html TYPE ON LINE 11.
5
6 <ol>
7
8 </ol>
9
10 STEP 2: Add the first li Element
11     IN practice.html TYPE ON LINE 12.
12
13 <li>Get a replacement with recommended wattage</li>
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE
17
18 <li>Disconnect the power supply. Turn off at the wall, socket or lamp.<
19 /li>
20 <li>Wait until bulb is cool to touch.</li>
21 <li>Wear safety gloves. Bulbs can break and some are toxic if they do
22 break.</li>
23 <li>Unscrew the old bulb.</li>
24 <li>Screw in the replacement bulb.</li>
25 <li>Connect the power supply.</li>
26 <li>Dispose old bulb safely.</li>
27
28 STEP 4: Add a blank line after last li element
29     IN practice.html ON LINE 19 ADD BLANK LINE BETWEEN Dispose old bulb
30 safely. and </li>.
31
32 <li>Dispose old bulb safely.
33
34 </li>
35
36 STEP 5: Paste in completed ul list
37     IN practice.html INSERT ON LINE 20
38
39 <ul>
```



```
9 <body>
10 <h1>How to Change a Light Bulb</h1>
11 <ol>
12
13 </ol>
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
```

**ol Element Allowed Contents**

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

snippets.txt

practice.html

Other content and HTML elements are not allowed inside the ol 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>Get a replacement with recommended wattage</li>
14
15 STEP 3: Add the remaining li Elements
16     IN practice.html BETWEEN LINES 12 and 13 PASTE.
17
18 <li>Disconnect the power supply. Turn off at the wall, socket or lamp.<
19 /li>
20 <li>Wait until bulb is cool to touch.</li>
21 <li>Wear safety gloves. Bulbs can break and some are toxic if they do
22 break.</li>
23 <li>Unscrew the old bulb.</li>
24 <li>Screw in the replacement bulb.</li>
25 <li>Connect the power supply.</li>
26 <li>Dispose old bulb safely.</li>
27
28 STEP 4: Add a blank line after last li element
29     IN practice.html ON LINE 19 ADD BLANK LINE BETWEEN Dispose old bulb
30 safely. and </li>.
31
32 <li>Dispose old bulb safely.
33 </li>
34
35 STEP 5: Paste in completed ul list
36     IN practice.html INSERT ON LINE 20
37
38 <ul>
39     <li>Follow any manufacture recommendations.</li>
40     <li>Obey local laws.</li>
41     <li>Keep out of reach of children.</li>
42 </ul>
43
```



```
9 <body>
10 <h1>How to Change a Light Bulb</h1>
11 <ol>
12 <li>Get a replacement with recommended wattage</li>
13 </ol>
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

Lets add the first li element. Copy and paste it from step two in the snippets file and paste inside of the ol element tags.

# Testing in the Web Browser

## How to Change a Light Bulb

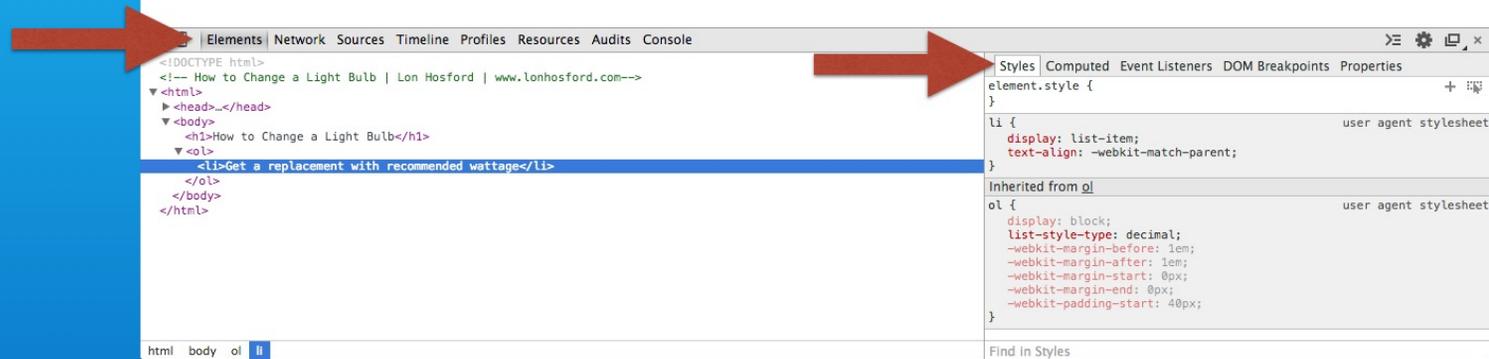
1. Get a replacement with recommended wattage.

Save and check it out in the web browser and there are the humble beginnings of our numbered list.

# Testing in the Web Browser

## How to Change a Light Bulb

1. Get a replacement with recommended wattage



Like we did with the ul element, lets inspect the elements in your web browser developer tools.

# Testing in the Web Browser

## How to Change a Light Bulb

1. [Get a replacement with recommended wattage](#)

li 1224px × 18px

The screenshot shows the browser's developer tools. The 'Elements' panel on the left shows the DOM tree with the following structure:

```
<!DOCTYPE html>
<!-- How to Change a Light Bulb | Lon Hosford | www.lonhosford.com-->
<html>
  <head>...</head>
  <body>
    <h1>How to Change a Light Bulb</h1>
    <ol>
      <li>Get a replacement with recommended wattage</li>
    </ol>
  </body>
</html>
```

A red arrow points from the `<li>` element in the DOM tree to the 'Styles' panel on the right. The 'Styles' panel shows the following CSS rules:

```
element.style {
}

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

Inherited from ol {
  display: block;
  list-style-type: decimal;
  -webkit-margin-before: 1em;
  -webkit-margin-after: 1em;
  -webkit-margin-start: 0px;
  -webkit-margin-end: 0px;
  -webkit-padding-start: 40px;
}
```

A black box with the text `list-style-type:decimal` and a red arrow points from this box to the `list-style-type: decimal;` line in the 'Inherited from ol' section of the 'Styles' panel.

The bullet style is set to decimal by the CSS `list-style-type` property. That comes from the `ol` element via the web browser style setting.

# Testing in the Web Browser

The screenshot shows a web browser window with the title "How to Change a Light Bulb". The main content area displays a single list item: "1. Get a replacement with recommended wattage". A small tooltip above the list item indicates its dimensions as "ol 1264px x 18px".

The browser's developer tools are open, showing the "Elements" panel on the left and the "Styles" panel on the right. The "Elements" panel shows the following HTML structure:

```
<!DOCTYPE html>
<!-- How to Change a Light Bulb | Lon Hosford | www.lonhosford.com-->
<html>
  <head>...</head>
  <body>
    <h1>How to Change a Light Bulb</h1>
    <ol>
      <li>Get a replacement with recommended wattage</li>
    </ol>
  </body>
</html>
```

The "Styles" panel shows the default styles for the selected list item:

```

-webkit-margin-end: 0px;
-webkit-padding-start: 40px;
}

margin: 16px;
border: 1px solid #ccc;
padding: 40px 16px 16px 16px;
width: 1224px;
height: 18px;
```

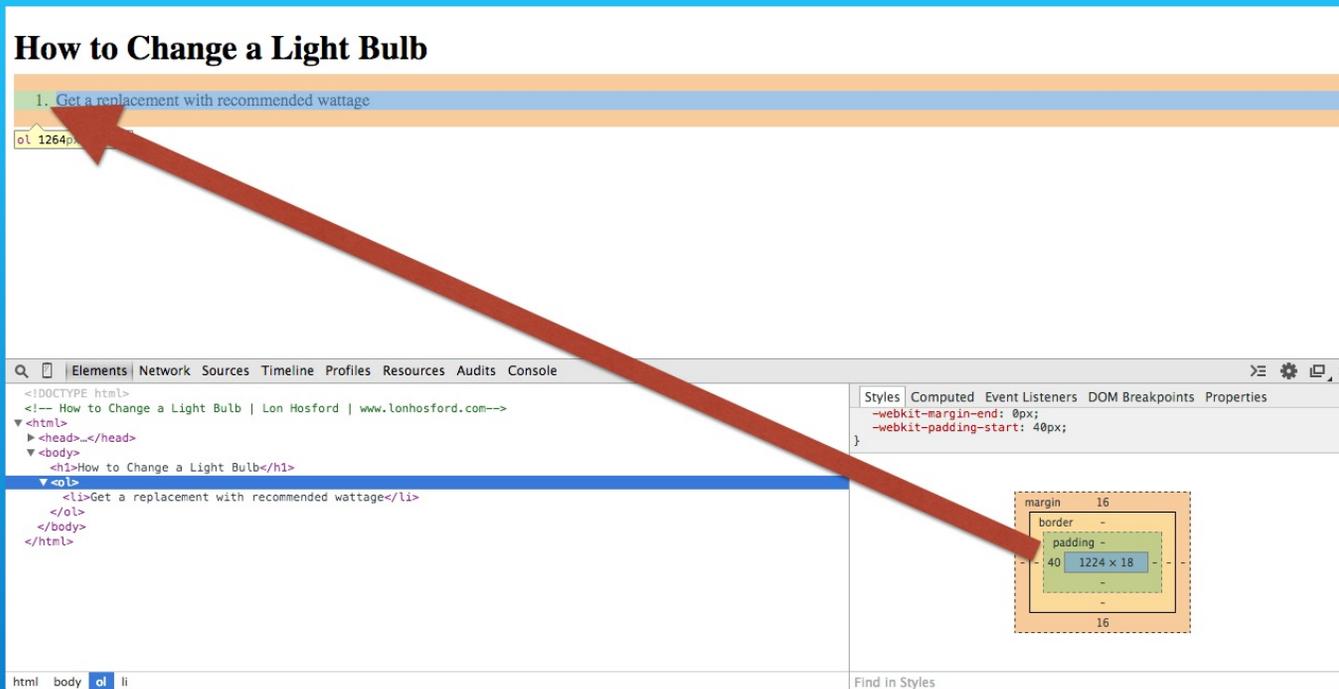
Red arrows point from the list item in the "Elements" panel to the "Styles" panel, and from the "Styles" panel to a box model diagram. The diagram shows a central box with a width of 1224px and a height of 18px. It is surrounded by a 40px left padding, 16px top and bottom margins, and a 16px right margin.

The ol element has the same defaulted margin and left padding values as the ul element. 16 pixels for the top and bottom margin. 40 pixels for the left padding.

# Testing in the Web Browser

## How to Change a Light Bulb

1. Get a replacement with recommended wattage



The screenshot shows a web browser window with the title "How to Change a Light Bulb". The main content area displays a single list item: "1. Get a replacement with recommended wattage". A red arrow points from the list item to the "Styles" panel in the browser's developer tools. The "Elements" panel shows the following HTML structure:

```
<!DOCTYPE html>
<!-- How to Change a Light Bulb | Lon Hosford | www.lonhosford.com-->
<html>
  <head>...</head>
  <body>
    <h1>How to Change a Light Bulb</h1>
    <ol>
      <li>Get a replacement with recommended wattage</li>
    </ol>
  </body>
</html>
```

The "Styles" panel shows the following CSS rules:

```
-webkit-margin-end: 0px;
-webkit-padding-start: 40px;
```

The box model overlay shows the following dimensions:

- margin: 16
- border: -
- padding: -
- content: 1224 x 18

The breadcrumb at the bottom of the developer tools reads: html > body > ol > li.

Your web tools may show a box model overlay. You will see that the list item number is on the right side of the left padding region. So far all the same as we saw with the ul element.

# 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>Disconnect the power supply. Turn off at the wall, socket or lamp.</li>
19 <li>Wait until bulb is cool to touch.</li>
20 <li>Wear safety gloves. Bulbs can break and some are toxic if they do
    break.</li>
21 <li>Unscrew the old bulb.</li>
22 <li>Screw in the replacement bulb.</li>
23 <li>Connect the power supply.</li>
24 <li>Dispose old bulb safely.</li>
25
26 STEP 4: Add a blank line after last li element
27     IN practice.html ON LINE 19 ADD BLANK LINE BETWEEN Dispose old bulb
    safely. and </li>.
28
29 <li>Dispose old bulb safely.
30
31 </li>
32
33 STEP 5: Paste in completed ul list
34     IN practice.html INSERT ON LINE 20
35     snippets.txt
36     <ul>
37         <li>Follow any manufacture recommendations.</li>
38         <li>Obey local laws.</li>
39         <li>Keep out of reach of children.</li>
40     </ul>
41
42
43
44
45
46
47
48
```

```
9 <body>
10 <h1>How to Change a Light Bulb</h1>
11 <ol>
12     <li>Get a replacement with recommended wattage</li>
13     <li>Disconnect the power supply. Turn off at the wall, socket or lamp.</li>
14     <li>Wait until bulb is cool to touch.</li>
15     <li>Wear safety gloves. Bulbs can break and some are toxic if they do
    break.</li>
16     <li>Unscrew the old bulb.</li>
17     <li>Screw in the replacement bulb.</li>
18     <li>Connect the power supply.</li>
19     <li>Dispose old bulb safely.</li>
20 </ol>
21 </body>
22 </html>
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
```

practice.html

Copy and paste the remaining li elements in step three. Place them after the li element and the closing ol tag.

# Testing in the Web Browser

## How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.

The list elements are automatically numbered sequentially. Each start on a new line.

# Testing in the Web Browser

## How to Change a Light Bulb

1. Get a replacement with recommended wattage
2. Disconnect the power supply. Turn off at the wall, socket or lamp.
3. **li 1224px x 18px** 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.

The screenshot shows a web browser's developer tools interface. The top part displays the HTML document structure, with the following code visible:

```
<!DOCTYPE html>
<!-- How to Change a Light Bulb | Lon Hosford | www.lonhosford.com-->
<html>
  <head>...</head>
  <body>
    <h1>How to Change a Light Bulb</h1>
    <ol>
      <li>Get a replacement with recommended wattage</li>
      <li>Disconnect the power supply. Turn off at the wall, socket or lamp.</li>
      <li>Wait until bulb is cool to touch.</li>
      <li>Wear safety gloves. Bulbs can break and some are toxic if they do break.</li>
      <li>Unscrew the old bulb.</li>
      <li>Screw in the replacement bulb.</li>
      <li>Connect the power supply.</li>
      <li>Dispose old bulb safely.</li>
    </ol>
  </body>
</html>
```

The second list item is highlighted in blue. A red arrow points from this list item to the 'Styles' panel on the right. The 'Styles' panel shows the following CSS rules for the selected element:

```
margin -
border -
padding -
1224 x 18
```

The 'padding' property is highlighted in green, and a box model diagram is shown to the right of the styles, illustrating the dimensions of the element and its padding.

The box model properties for li elements inside of the ol element are the same as they are when inside the ul element. No padding, border or margin.

# Testing in the Web Browser

## How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.



Lastly for this exercise we are going to add a bulleted list to the last list element.

# Step 4: Add a blank line after last li element

```
25
26 STEP 4: Add a blank line after last li element
27     IN practice.html ON LINE 19 ADD BLANK LINE BETWEEN Dispose old bulb
28     safely. and </li>.
29     <li>Dispose old bulb safely.
30
31 </li>
32
33 STEP 5: Paste in completed ul list
34     IN practice.html INSERT ON LINE 20
35
36     <ul>
37         <li>Follow any manufacture recommendations.</li>
38         <li>Obey local laws.</li>
39         <li>Keep out of reach of children.</li>
40     </ul>
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
```

snippets.txt



```
9 <body>
10 <h1>How to Change a Light Bulb</h1>
11 <ol>
12     <li>Get a replacement with recommended wattage</li>
13     <li>Disconnect the power supply. Turn off at the wall, socket or lamp.</li>
14     <li>Wait until bulb is cool to touch.</li>
15     <li>Wear safety gloves. Bulbs can break and some are toxic if they do
16     break.</li>
17     <li>Unscrew the old bulb.</li>
18     <li>Screw in the replacement bulb.</li>
19     <li>Connect the power supply.</li>
20     <li>Dispose old bulb safely.
21     </li>
22 </ol>
23 </body>
24 </html>
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
```

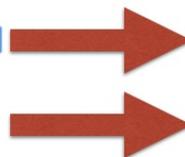
practice.html

First we will add some white space inside the last li element. Add a blank line before the closing li tag. Equally indent the open and close li element tags.

# Step 5: Paste in the completed ol list

```
32
33 STEP 5: Paste in completed ul list
34     IN practice.html INSERT ON LINE 20
```

```
35
36 <ul>
37   <li>Follow any manufacture recommendations.</li>
38   <li>Obey local laws.</li>
39   <li>Keep out of reach of children.</li>
40 </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

## How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.
  - o Follow any manufacture recommendations.
  - o Obey local laws.
  - o Keep out of reach of children.



Save and check in the web browser. Now you have a combined numbered list with a second level bulleted list.

# Summary

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

```
<ol>  
  <li></li>  
  <li></li>  
  <li></li>  
</ol>
```

## How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.

We are done for this exercise.

As promised the numbered HTML lists are not really different from the bulleted lists.

# Summary

- \* Understand the ol and li elements

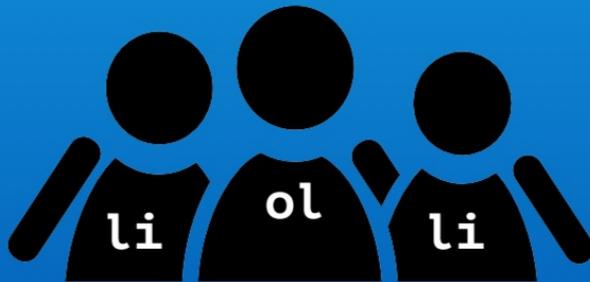
- \* Create ol Element Allowed Contents

- \* The li elements

- \* Learn ol and ul elements

- \* Content and other HTML Element

- \* View and test with web browser



```
<ol>
  <li></li>
  <li></li>
  <li></li>
</ol>
```

The ol and li elements are team mates. The ol element is the container and only allows li elements and white space for code styling.

# Summary

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

```
<ol>
  <li>Get a replacement . . .</li>
  <li>Disconnect the power . . .</li>
  <li>Wait until bulb . . .</li>
</ol>
```



## How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.

Because HTML automatically increments the numbers for us, we can quickly build sequentially numbered lists.

# Summary

## \* li Element Default Number Symbols

1	number (default)
a	lower case letter
A	upper case letter
i	lower case Roman numeral
I	upper case Roman numeral

\* View and test with web browser

```
<ol>
  <li>Get a replacement . . .</li>
  <li>Disconnect the power . . .</li>
  <li>Wait until bulb . . .</li>
</ol>
```



### How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.

We also have some choices for the type of numbers. We will explore how to use these in an upcoming exercise.

# Summary

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

```
<ol>
  <li>Dispose old bulb . . .
    <ul>
      <li>Follow any manuf . . .</li>
    </ul>
  </li>
</ol>
```



## How to Change a Light Bulb

1. Get a replacement with recommended wattage.
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.

We found that nesting bulleted and numbered lists is quite flexible.

# Summary

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

## How to Change a Light Bulb

1. Get a replacement with recommended wattage

li 1224

**list-style-type:decimal** →

```
Styles | Computed | Event Listeners | DOM Breakpoints | Properties
element.style {
}
li {
  display: list-item;
  text-align: -webkit-match-parent;
}
Inherited from ol
ol {
  display: block;
  list-style-type: decimal;
  -webkit-margin-before: 1em;
  -webkit-margin-after: 1em;
  -webkit-margin-start: 0px;
  -webkit-margin-end: 0px;
  -webkit-padding-start: 40px;
}
```

The web tools revealed that the defaulted CSS list-style-type property value for a li element is decimal when contained by an ol element.

# Summary

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

## How to Change a Light Bulb

1. Get a replacement with recommended wattage

The screenshot shows a web browser displaying a page titled "How to Change a Light Bulb". The page content includes a numbered list with one item: "1. Get a replacement with recommended wattage". Below the page content, the browser's developer tools are open, showing the HTML structure. The HTML tree is expanded to show the following code:

```
<!DOCTYPE html>
<!-- How to Change a Light Bulb | Lon Hosford | www.lonhosford.com-->
<html>
  <head></head>
  <body>
    <h1>How to Change a Light Bulb</h1>
    <ol>
      <li>Get a replacement with recommended wattage</li>
    </ol>
  </body>
</html>
```

The developer tools also show the CSS styles for the selected list item (li). The styles include:

```
margin: 16px;
border: 1px solid #ccc;
padding: 40px 1224px 18px 16px;
```

A red arrow points from the text "View and test with web browser" in the summary to the browser window. Another red arrow points from the text "Learn how to nest ol and ul elements" to the list item in the browser window.

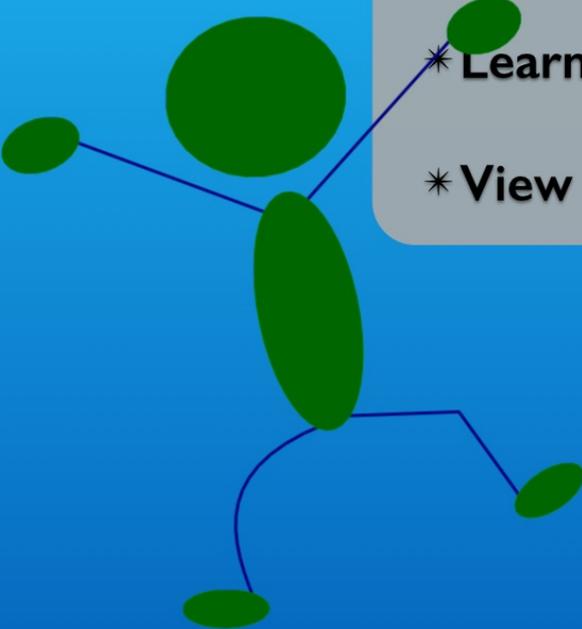
And the list item labels for the ol element are positioned within the left padding of each li element as they were with the ul element.

# Summary

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



**CONGRATS**



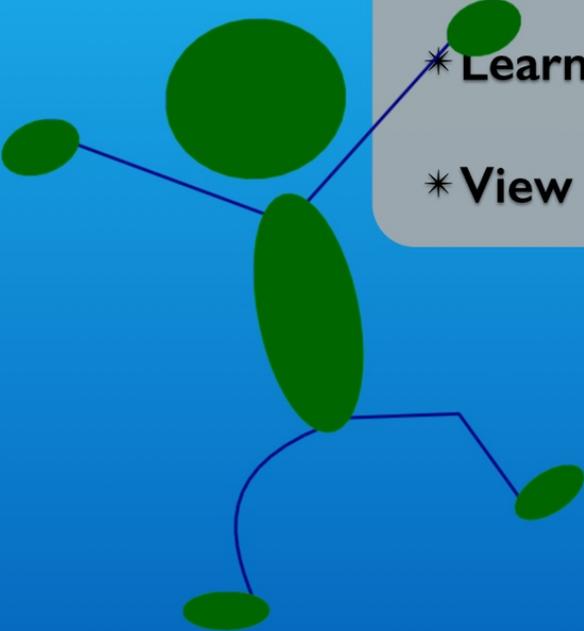
Congratulations! You are over the hump for creating bulleted and numbered lists in HTML.

# Summary

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



**CONGRATS**



There is little more to know about the ol element and we will get to that in an exercise coming up. See you there.

# **How To Create Ordered HTML Lists**

**With Lon Hosford**

Copyright 2014 Lon Hosford. All Rights Reserved. [www.lonhosford.com](http://www.lonhosford.com)

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