**HTML Lists**

Web developers can use HTML lists to organise a collection of related items into lists.

### **Example**

* An unordered HTML list:
* Item
* Item
* Item
* Item
* An ordered HTML list:

1. First item
2. Second item
3. Third item
4. Fourth item

## **Unordered HTML List**

The <ul> tag is used to create an unordered list. The <li> tag is used to begin each list item.

By default, bullets (small black circles) will be used to indicate the list items:

### **Example**

<ul>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

## **Ordered HTML List**

The <ol> tag is used to start an ordered list. The <li> tag is used to begin each list item.

By default, the items on the list will be numbered:

### **Example**

<ol>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

## **HTML Description Lists**

Description lists are also supported by HTML.

A description list is a list of terms that each have a description.

The description list is defined by the <dl> tag, the term (name) is defined by the <dt> tag, and each term is described by the <dd> tag:

### **Example**

<dl>  
  <dt>Coffee</dt>  
  <dd>- black hot drink</dd>  
  <dt>Milk</dt>  
  <dd>- white cold drink</dd>  
</dl>

## **HTML List Tags**

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<ul>](https://www.w3schools.com/tags/tag_ul.asp) | Defines an unordered list |
| [<ol>](https://www.w3schools.com/tags/tag_ol.asp) | Defines an ordered list |
| [<li>](https://www.w3schools.com/tags/tag_li.asp) | Defines a list item |
| [<dl>](https://www.w3schools.com/tags/tag_dl.asp) | Defines a description list |
| [<dt>](https://www.w3schools.com/tags/tag_dt.asp) | Defines a term in a description list |
| [<dd>](https://www.w3schools.com/tags/tag_dd.asp) | Describes the term in a description list |

# HTML Unordered Lists

An unordered (bulleted) list is defined by the HTML <ul> tag.

## **Unordered HTML List**

The <ul> tag is used to create an unordered list. The <li> tag is used to begin each list item.

By default, bullets (small black circles) will be used to indicate the list items:

### **Example**

<ul>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

## **Unordered HTML List - Choose List Item Marker**

The list-style-type property in CSS is used to define the list item marker's style. One of the following values can be assigned to it:

|  |  |
| --- | --- |
| **Value** | **Description** |
| disc | The list item marker is changed to a bullet (default) |
| circle | The list item marker is changed to a circle. |
| square | The list item marker is changed to a square. |
| none | The items on the list will not be marked. |

### **Example – Disc**

<ul style="list-style-type:disc;">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

### **Example – Circle**

<ul style=”list-style-type:circle;”>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

### **Example – Square**

<ul style="list-style-type:square;">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

### **Example - None**

<ul style="list-style-type:none;">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

## **Nested HTML Lists**

Lists can be nested (list inside list):

### **Example**

<ul>  
  <li>Coffee</li>  
  <li>Tea  
    <ul>  
      <li>Black tea</li>  
      <li>Green tea</li>  
    </ul>  
  </li>  
  <li>Milk</li>  
</ul>

**Note:** A list item (<li>) can contain a new list as well as other HTML elements such as images and links, among other things.

## **Horizontal List with CSS**

CSS allows you to style HTML lists in a variety of ways.

To make a navigation menu, one popular method is to style a list horizontally:

### **Example**

<!DOCTYPE html>  
<html>  
<head>  
<style>  
ul {  
  list-style-type: none;  
  margin: 0;  
  padding: 0;  
  overflow: hidden;  
  background-color: #333333;  
}  
  
li {  
  float: left;  
}  
  
li a {  
  display: block;  
  color: white;  
  text-align: center;  
  padding: 16px;  
  text-decoration: none;  
}  
  
li a:hover {  
  background-color: #111111;  
}  
</style>  
</head>  
<body>  
  
<ul>  
  <li><a href="#home">Home</a></li>  
  <li><a href="#news">News</a></li>  
  <li><a href="#contact">Contact</a></li>  
  <li><a href="#about">About</a></li>  
</ul>  
  
</body>  
</html>

## **Chapter Summary**

• To create an unordered list, use the HTML <ul> element

• To create a list item marker, use the CSS list-style-type property

• To create a list item, use the HTML li> element

• Lists can be nested

• List items can contain other HTML elements

• To display a list horizontally, use the CSS property float:left.

## **HTML List Tags**

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<ul>](https://www.w3schools.com/tags/tag_ul.asp) | Defines an unordered list |
| [<ol>](https://www.w3schools.com/tags/tag_ol.asp) | Defines an ordered list |
| [<li>](https://www.w3schools.com/tags/tag_li.asp) | Defines a list item |
| [<dl>](https://www.w3schools.com/tags/tag_dl.asp) | Defines a description list |
| [<dt>](https://www.w3schools.com/tags/tag_dt.asp) | Defines a term in a description list |
| [<dd>](https://www.w3schools.com/tags/tag_dd.asp) | Describes the term in a description list |

# HTML Ordered Lists

An ordered list is defined by the HTML <ol> tag. A numerical or alphabetical order can be used in an ordered list.

## **Ordered HTML List**

The <ol> tag establishes an ordered list. The <li> tag precedes each list item.

By default, the items in the list will be numbered:

### **Example**

<ol>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

## **Ordered HTML List - The Type Attribute**

The type attribute of the <ol> tag, defines the type of the list item marker:

|  |  |
| --- | --- |
| **Type** | **Description** |
| type="1" | The items on the list will be numbered (default) |
| type="A" | Uppercase letters will be used to number the items on the list. |
| type="a" | Lowercase letters will be used to number the items on the list. |
| type="I" | Uppercase roman numbers will be used to number the items on the list. |
| type="i" | Lowercase roman numbers will be used to number the items on the list. |

### **Numbers:**

<ol type="1">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

### **Uppercase Letters:**

<ol type="A">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

### **Lowercase Letters:**

<ol type="a">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

### **Uppercase Roman Numbers:**

<ol type="I">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

### **Lowercase Roman Numbers:**

<ol type="i">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

## **Control List Counting**

By default, an ordered list will start counting from 1. If you want to start counting from a specified number, you can use the start attribute:

### **Example**

<ol start="50">  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ol>

## **Nested HTML Lists**

Lists can be nested (list inside list):

### **Example**

<ol>  
  <li>Coffee</li>  
  <li>Tea  
    <ol>  
      <li>Black tea</li>  
      <li>Green tea</li>  
    </ol>  
  </li>  
  <li>Milk</li>  
</ol>

**Note:** A list item (<li>) can contain a new list, and other HTML elements, like images and links, etc.

## **Chapter Summary**

• To define an ordered list, use the HTML <ol> element

• To define the numbering type, use the HTML type attribute

• To define a list item, use the HTML <li> element

• Lists can be nested

• List items can contain other HTML elements

## **HTML List Tags**

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| **Tag** | **Description** |
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# HTML Other Lists

HTML also supports description lists.

## **HTML Description Lists**

A description list is a list of terms that each have a description.

The description list is defined by the <dl> tag, the term (name) is defined by the <dt> tag, and each term is described by the <dd> tag:

### **Example**

<dl>  
  <dt>Coffee</dt>  
  <dd>- black hot drink</dd>  
  <dt>Milk</dt>  
  <dd>- white cold drink</dd>  
</dl>

## **Chapter Summary**

## • Define a description list with the HTML <dl> element

## • Define the description term with the HTML <dt> element

## • Define the term in a description list with the HTML <dd> element

## **HTML List Tags**

|  |  |
| --- | --- |
| **Tag** | **Description** |
| [<ul>](https://www.w3schools.com/tags/tag_ul.asp) | Defines an unordered list |
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