

HTML Lists

HTML Lists are used to specify lists of information. All lists may contain one or more list elements. There are three different types of *HTML lists*:

- 1. Ordered List (Numbered List)
- 2. Unordered List (Bulleted List)
- 3. Description Lists (Definition List)

Ordered List

In the ordered HTML lists, all the list items are marked with numbers by default.

It has the following syntax:

```
<ol>
  <li>Amazon</li>
  <li>Google</li>
  <li>Meta</li>
  <li>Oracle</li>
</ol>
```

Attribute:

- 1. reversed
- 2. start: number
- 3. type (with css list-style-type): 1 | A | a | I | i

Unordered List

In HTML Unordered list, all the list items are marked with bullets.

It has the following syntax:

```
<ul>
  <li>Amazon</li>
  <li>Google</li>
  <li>Meta</li>
  <li>Oracle</li>
</ul>
```

Description List

A description list is a list of terms, with a description of each term.

The `<dl>` tag defines the description list, the `<dt>` tag defines the term (name), and the `<dd>` tag describes each term. It has the following syntax:

```
<dl>
  <dt>Amazon</dt>
  <dd> -focus on e-commerce </dd>
  <dd> -focus on cloud computing, </dd>
  <dd> -focus on online advertising </dd>
  <dt>Google</dt>
  <dd> -focus on search engine technology </dd>
  <dd> -focus on cloud computing </dd>
  <dt>Meta</dt>
  <dd> -owns facebook </dd>
  <dd> -owns instagram </dd>
  <dt>Oracle</dt>
  <dd> It is a multinational technology corporation </dd>
</dl>
```


HTML Block and Inline Elements

Every HTML element has a default display value, depending on what type of element it is.

Block-level Elements

A block-level element always starts on a new line, and the browsers automatically add some space (a margin) before and after the element.

A block-level element always takes up the full width available (stretches out to the left and right as far as it can).

Two commonly used block elements are: `<p>` and `<div>`.

The `<p>` element defines a paragraph in an HTML document.

The `<div>` element defines a division or a section in an HTML document.

Inline Elements

An inline element does not start on a new line.

An inline element only takes up as much width as necessary.

``

HTML Semantic Elements

A semantic element clearly describes its meaning to both the browser and the developer.

Why use semantic elements?

- First, it is much **easier to read**.
- It has **greater accessibility**
- **SEO**

Screen readers rely on semantically-rich HTML to process web pages and help users with low vision navigate them. Semantic tags tell screen reader users where they are and how they can interact with the current page.

Like with assistive technologies, semantic markup helps search engine crawlers navigate your page to better understand its structure and contents. Semantic HTML is a great way to show search engines what to index and get the most from your crawl budget.

HTML Form Elements

HTML Input Types

Here are the different input types you can use in HTML.

The `<input>` element can be displayed in several ways, depending on the type attribute:

```
<input type="button">
```

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

```
<input type="color">
```

```
<input type="date">
```

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

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

```
<input type="file">
```

```
<input type="hidden">
```

```
<input type="image">
```

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

```
<input type="number">
```

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

```
<input type="radio">
```

```
<input type="range">
```

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

```
<input type="search">
```

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

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

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

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

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

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

The `<label>` Element

The `<label>` element defines a label for several form elements.

The `<label>` element is useful for screen-reader users, because the screen-reader will read out loud the label when the user focus on the input element.

The `<label>` element also help users who have difficulty clicking on very small regions (such as radio buttons or checkboxes) - because when the user clicks the text within the `<label>` element, it toggles the radio button/checkbox.

The `for` attribute of the `<label>` tag should be equal to the `id` attribute of the `<input>` element to bind them together.

The `<select>` Element

The `<select>` element defines a drop-down list.

Use the `multiple` attribute to allow the user to select more than one value

The `<textarea>` Element

The `<textarea>` element defines a multi-line input field (a text area)

The `<button>` Element

The `<button>` element defines a clickable button

The `<fieldset>` and `<legend>` Elements

The `<fieldset>` element is used to group related data in a form.

The `<legend>` element defines a caption for the `<fieldset>` element.