CHAPTER NINE

9.0   CSS LIST

The CSS list properties allow you to:

- Set different list item markers for ordered lists

- Set different list item markers for unordered lists

- Set an image as the list item marker

9.1   List

In HTML, there are two types of lists:

- unordered lists (<ul>) - the list items are marked with bullets

- ordered lists (<ol>) - the list items are marked with numbers or letters

With CSS, lists can be styled further, and images can be used as the list item marker.

9.2   Different List Item Markers
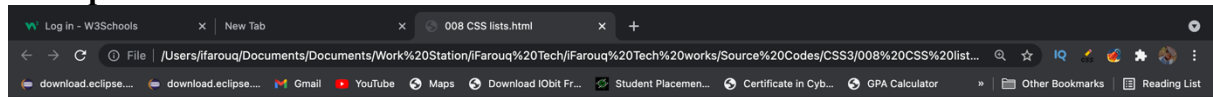
The type of list item marker is specified with the list-style-type property:

Example

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            ul.a {
                list-style-type: circle;
            }
            ul.b {
                list-style-type: square;
            }
            ol.c {
                list-style-type: upper-roman;
            }
```

```html
            ol.d {
                list-style-type: lower-alpha;
            }
        </style>
    </head>
    <body>
        <p>Example of unordered lists:</p>
        <ul class="a">
                <li>Coffee</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ul>
        <ul class="b">
                <li>Coffee</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ul>
        <p>Example of ordered lists:</p>
        <ol class="c">
                <li>Coffee</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
        <ol class="d">
                <li>Coffee</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
    </body>
</html>
```

Example Review:

Example of unordered lists:

- Coffee
- Tea
- Coca Cola

- Coffee
- Tea
- Coca Cola

Example of ordered lists:

I. Coffee
II. Tea
III. Coca Cola

a. Coffee
b. Tea
c. Coca Cola

Some of the values are for unordered lists, and some for ordered lists.

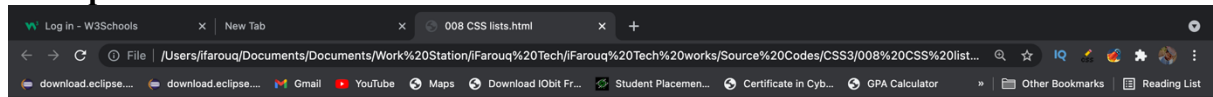## 9.3   An Image as The List Item Marker

To specify an image as the list item marker, use the list-style-image property:

Example

```
<!DOCTYPE html>
<html>
    <head>
        <style>
        ul {
            list-style-image: url('sqpurple.gif');
        }
        </style>
    </head>
    <body>
        <ul>
            <li>Coffee</li>
            <li>Tea</li>
            <li>Coca Cola</li>
        </ul>
    </body>
</html>
```

Example Review:

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- Coffee
- Tea
- Coca Cola

The example above does not display equally in all browsers. IE and Opera will display the image-marker a little bit higher than Firefox, Chrome, and Safari.

If you want the image-marker to be placed equally in all browsers, a crossbrowser solution is explained below.

9.4   Crossbrowser Solution

The following example displays the image-marker equally in all browsers:

Example

```html
<!DOCTYPE html>
<html>
    <head>
        <style>
            ul {
                list-style-type: none;
                padding: 0px;
                margin: 0px;
            }
            ul li {
                background-image: url(sqpurple.gif);
```
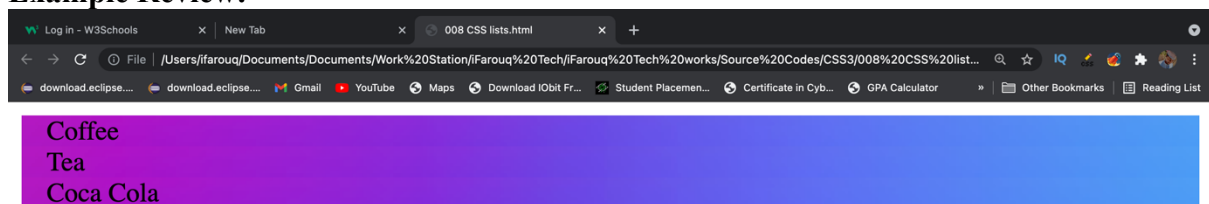
```
                    background-repeat: no-repeat;
                    background-position: 0px center;
                    padding-left: 15px;
                }
            </style>
    </head>
    <body>
        <ul>
            <li>Coffee</li>
            <li>Tea</li>
            <li>Coca Cola</li>
        </ul>
    </body>
</html>
```

Example Review:

Example explained:

- For <ul>:

    o Set the list-style-type to none to remove the list item marker

    o Set both padding and margin to 0px (for cross-browser compatibility)

- For all <li> in <ul>:

    o Set the URL of the image, and show it only once (no-repeat)

- Position the image where you want it (left 0px and vertical value: center)
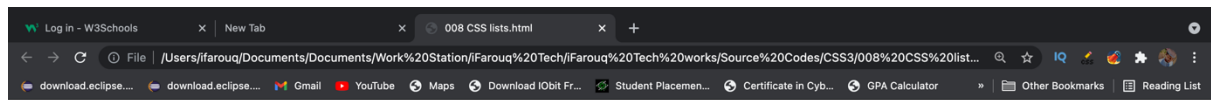
- Position the text in the list with padding-left

9.5   List - Shorthand property

The list-style property is a shorthand property. It is used to set all the list properties in one declaration:

Example

```
<!DOCTYPE html>
<html>
    <head>
        <style>
            ul {
                list-style: square inside url("sqpurple.gif");
            }
        </style>
    </head>
    <body>
        <ul>
            <li>Coffee</li>
            <li>Tea</li>
            <li>Coca Cola</li>
        </ul>
    </body>
</html>
```

Example Review:

When using the shorthand property, the order of the property values are:

- **list-style-type** (if a list-style-image is specified, the value of this property will be displayed if the image for some reason cannot be displayed)

- **list-style-position** (specifies whether the list-item markers should appear inside or outside the content flow)

- **list-style-image** (specifies an image as the list item marker)

If one of the property values above are missing, the default value for the missing property will be inserted, if any.

All the different list-item markers for lists

```html
<!DOCTYPE html>
<html>
	<head>
		<style>
			ul.a {list-style-type: circle;}
			ul.b {list-style-type: disc;}
			ul.c {list-style-type: square;}
			ol.d {list-style-type: armenian;}
			ol.e {list-style-type: cjk-ideographic;}
			ol.f {list-style-type: decimal;}
			ol.g {list-style-type: decimal-leading-zero;}
			ol.h {list-style-type: georgian;}
			ol.i {list-style-type: hebrew;}
			ol.j {list-style-type: hiragana;}
			ol.k {list-style-type: hiragana-iroha;}
			ol.l {list-style-type: katakana;}
			ol.m {list-style-type: katakana-iroha;}
			ol.n {list-style-type: lower-alpha;}
			ol.o {list-style-type: lower-greek;}
			ol.p {list-style-type: lower-latin;}
			ol.q {list-style-type: lower-roman;}
			ol.r {list-style-type: upper-alpha;}
			ol.s {list-style-type: upper-latin;}
			ol.t {list-style-type: upper-roman;}
			ol.u {list-style-type: none;}
			ol.v {list-style-type: inherit;}
		</style>
	</head>
	<body>
		<ul class="a">
			<li>Circle type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ul>
		<ul class="b">
			<li>Disc type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ul>
		<ul class="c">
			<li>Square type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ul>
		<ol class="d">
			<li>Armenian type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
```

```html
        </ol>
        <ol class="e">
                <li>Cjk-ideographic type</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
        <ol class="f">
                <li>Decimal type</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
        <ol class="g">
                <li>Decimal-leading-zero type</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
        <ol class="h">
                <li>Georgian type</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
        <ol class="i">
                <li>Hebrew type</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
        <ol class="j">
                <li>Hiragana type</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
        <ol class="k">
                <li>Hiragana-iroha type</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
        <ol class="l">
                <li>Katakana type</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
        <ol class="m">
                <li>Katakana-iroha type</li>
                <li>Tea</li>
                <li>Coca Cola</li>
        </ol>
        <ol class="n">
                <li>Lower-alpha type</li>
                <li>Tea</li>
                <li>Coca Cola</li>
```

```html
		</ol>
		<ol class="o">
			<li>Lower-greek type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ol>
		<ol class="p">
			<li>Lower-latin type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ol>
		<ol class="q">
			<li>Lower-roman type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ol>
		<ol class="r">
			<li>Upper-alpha type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ol>
		<ol class="s">
			<li>Upper-latin type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ol>
		<ol class="t">
			<li>Upper-roman type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ol>
		<ol class="u">
			<li>None type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ol>
		<ol class="v">
			<li>inherit type</li>
			<li>Tea</li>
			<li>Coca Cola</li>
		</ol>
	</body>
</html>
```

Example Review:

| Example of Unordered list:

∘ Coffee
∘ Tea
∘ Coca Cola

• Coffee
• Tea
• Coca Cola

▪ Coffee
▪ Tea
▪ Coca Cola

• Coffee
• Tea
• Coca Cola

1. Coffee
2. Tea
3. Coca Cola

01. Coffee
02. Tea
03. Coca Cola

1. Coffee
2. Tea
3. Coca Cola | ١. Coffee
٢. Tea
٣. Coca Cola

א. Coffee
ב. Tea
ג. Coca Cola

あ、Coffee
い、Tea
う、Coca Cola

い、Coffee
ろ、Tea
は、Coca Cola

ア、Coffee
イ、Tea
ウ、Coca Cola

イ、Coffee
ロ、Tea
ハ、Coca Cola

a. Coffee
b. Tea
c. Coca Cola | α. Coffee
β. Tea
γ. Coca Cola

a. Coffee
b. Tea
c. Coca Cola

i. Coffee
ii. Tea
iii. Coca Cola

A. Coffee
B. Tea
C. Coca Cola

A. Coffee
B. Tea
C. Coca Cola

I. Coffee
II. Tea
III. Coca Cola

Coffee
Tea
Coca Cola

• Coffee | I. Coffee
II. Tea
III. Coca Cola

Coffee
Tea
Coca Cola

• Coffee
• Tea
• Coca Cola

Ա. Coffee
Բ. Tea
Գ. Coca Cola |

This example demonstrates all the different list-item markers in CSS.

All CSS List Properties

Property	Description
list-style	Sets all the properties for a list in one declaration
list-style-image	Specifies an image as the list-item marker
list-style-position	Specifies if the list-item markers should appear inside or outside the content flow
list-style-type	Specifies the type of list-item marker