

Training Day5 report

14 June 2024

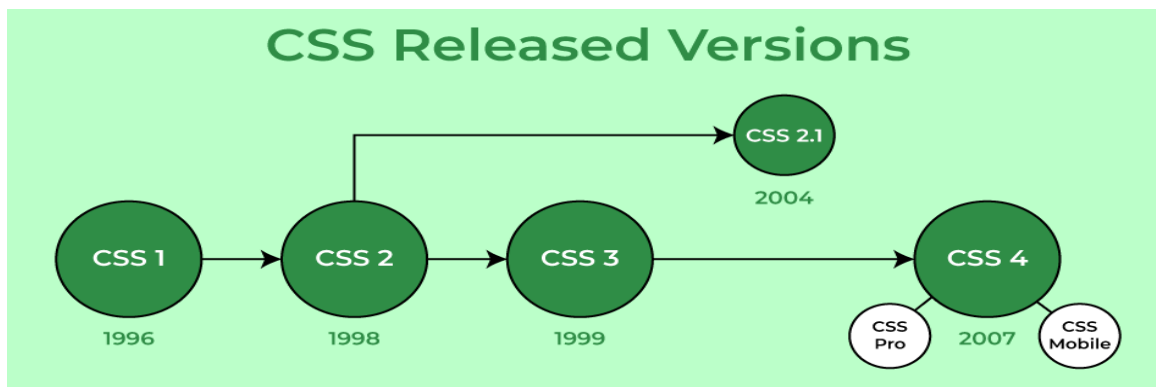
INTRODUCTION OF CSS:

CSS (Cascading Style Sheets) is a language designed to simplify the process of making web pages presentable. It allows you to apply styles to HTML documents, describing how a webpage should look by prescribing colors, fonts, spacing, and positioning. CSS provides developers and designers with powerful control over the presentation of HTML elements. HTML uses tags and CSS uses rulesets. CSS styles are applied to the HTML element using selectors. CSS is easy to learn and understand, but it provides powerful control over the presentation of an HTML document.

Why CSS?

- **Saves Time:** Write CSS once and reuse it across multiple HTML pages.
- **Easy Maintenance:** Change the style globally with a single modification.
- **Search Engine Friendly:** Clean coding technique that improves readability for search engines.
- **Superior Styles:** Offers a wider array of attributes compared to HTML.
- **Offline Browsing:** CSS can store web applications locally using offline cache, allowing offline viewing.

CSS Versions Release Year



CSS Syntax

CSS consists of style rules that are interpreted by the browser and applied to the corresponding elements. A style rule set includes a selector and a declaration block.

- **Selector:** Targets specific HTML elements to apply styles.
- **Declaration:** Combination of a property and its corresponding value.

```
// HTML Element
<h1>Hello</h2>

// CSS Style
h1 { color: blue; font-size: 12px; }

Where -
Selector - h1
Declaration - { color: blue; font-size: 12px; }
```

- The selector points to the HTML element that you want to style.
- The declaration block contains one or more declarations separated by semicolons.
- Each declaration includes a CSS property name and a value, separated by a colon.

WHY Use CSS?

CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes.

Example:

```
body {
  background-color: lightblue;
}

h1 {
  color: white;
  text-align: center;
}

p {
  font-family: verdana;
  font-size: 20px;
}
```

CSS Solved a Big Problem

HTML was NEVER intended to contain tags for formatting a web page!

HTML was created to describe the content of a web page, like:

```
<h1>This is a heading</h1>
```

```
<p>This is a paragraph.</p>
```

When tags like ``, and color attributes were added to the HTML 3.2 specification, it started a nightmare for web developers. Development of large websites, where fonts and color information were added to every single page, became a long and expensive process.

To solve this problem, the World Wide Web Consortium (W3C) created CSS.

CSS removed the style formatting from the HTML page.

Three Ways to Insert CSS

There are three ways of inserting a style sheet:

- External CSS
- Internal CSS
- Inline CSS

External CSS

With an external style sheet, you can change the look of an entire website by changing just one file!

Each HTML page must include a reference to the external style sheet file inside the `<link>` element, inside the head section.

Example

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="mystyle.css">
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

An external style sheet can be written in any text editor, and must be saved with a .css extension. The external .css file should not contain any HTML tags.

Here is how the "mystyle.css" file looks:

```
body {
  background-color: lightblue;
}

h1 {
  color: navy;
  margin-left: 20px;
}
```

Internal CSS

An internal style sheet may be used if one single HTML page has a unique style.

The internal style is defined inside the <style> element, inside the head section.

Example

```
<!DOCTYPE html>
<html>
```

```

<head>
<style>
body {
  background-color: linen;
}

h1 {
  color: maroon;
  margin-left: 40px;
}
</style>
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>

```

Inline CSS

An inline style may be used to apply a unique style for a single element.

To use inline styles, add the style attribute to the relevant element. The style attribute can contain any CSS property.

```

<!DOCTYPE html>
<html>
<body>

<h1 style="color:blue;text-align:center;">This is a heading</h1>
<p style="color:red;">This is a paragraph.</p>

</body>
</html>

```

CSS Margins

The CSS margin properties are used to create space around elements, outside of any defined borders.

With CSS, you have full control over the margins. There are properties for setting the margin for each side of an element (top, right, bottom, and left).

Margin Properties

1. [margin-top](#): Sets the top margin of an element.
2. [margin-right](#): Sets the right margin of an element.
3. [margin-bottom](#): Specifies the margin at the bottom of an element.
4. [margin-left](#): Determines the width of the margin on the left side of an element.

Syntax:

```
body {  
  margin: value;  
}
```

Example of margin property with 4 values:

```
margin: 40px 100px 120px 80px;
```

- **top margin** = 40px
- **right margin** = 100px
- **bottom margin** = 120px
- **left margin** = 80px

All the margin properties can have the following values:

- **auto** - the browser calculates the margin
- *length* - specifies a margin in px, pt, cm, etc.
- **%** - specifies a margin in % of the width of the containing element
- **inherit** - specifies that the margin should be inherited from the parent element

Tip: Negative values are allowed.

Example

Set different margins for all four sides of a <p> element:

```
p {  
  margin-top: 100px;  
  margin-bottom: 100px;  
  margin-right: 150px;  
  margin-left: 80px;  
}
```

Margin - Shorthand Property

To shorten the code, it is possible to specify all the margin properties in one property.

The margin property is a shorthand property for the following individual margin properties:

- margin-top
- margin-right
- margin-bottom
- margin-left

So, here is how it works:

If the margin property has four values:

- **margin: 25px 50px 75px 100px;**
 - top margin is 25px
 - right margin is 50px
 - bottom margin is 75px
 - left margin is 100px

Example

Use the margin shorthand property with four values:

```
p {  
  margin: 25px 50px 75px 100px;  
}
```

If the margin property has three values:

- **margin: 25px 50px 75px;**
 - top margin is 25px
 - right and left margins are 50px
 - bottom margin is 75px

If the margin property has two values:

- **margin: 25px 50px;**
 - top and bottom margins are 25px
 - right and left margins are 50px

If the margin property has one value:

- **margin: 25px;**
 - all four margins are 25px

Margin Collapse

Top and bottom margins of elements are sometimes collapsed into a single margin that is equal to the largest of the two margins.

This does not happen on left and right margins! Only top and bottom margins!

Look at the following example:

Example

Demonstration of margin collapse:

```
h1 {  
  margin: 0 0 50px 0;  
}
```

```
h2 {  
  margin: 20px 0 0 0;  
}
```


CSS Padding

CSS Padding property is used to create space between the element's content and the element's border. It only affects the content inside the element.

CSS padding is different from [CSS margin](#) as the margin is the space between adjacent element borders and padding is the space between content and element's border.

We can independently change the top, bottom, left, and right padding using padding properties. CSS Padding Properties

CSS provides properties to specify padding for individual sides of an element which are defined as follows:

- [**padding-top**](#): Sets the padding for the top side of the element.
- [**padding-right**](#): Sets the padding for the right side of the element.
- [**padding-bottom**](#): Sets the padding for the bottom side of the element.
- [**padding-left**](#): Sets the padding for the left side of the element.

All the padding properties can have the following values:

- *length* - specifies a padding in px, pt, cm, etc.
- % - specifies a padding in % of the width of the containing element
- inherit - specifies that the padding should be inherited from the parent element

Note: Negative values are not allowed.

Example

Set different padding for all four sides of a <div> element:

```
div {  
  padding-top: 50px;  
  padding-right: 30px;  
  padding-bottom: 50px;  
  padding-left: 80px;  
}
```

Padding - Shorthand Property

To shorten the code, it is possible to specify all the padding properties in one property.

The padding property is a shorthand property for the following individual padding properties:

- padding-top
- padding-right
- padding-bottom
- padding-left

So, here is how it works:

If the padding property has four values:

- **padding: 25px 50px 75px 100px;**
 - top padding is 25px
 - right padding is 50px
 - bottom padding is 75px
 - left padding is 100px

If the padding property has three values:

- **padding: 25px 50px 75px;**
 - top padding is 25px
 - right and left paddings are 50px
 - bottom padding is 75px

If the padding property has two values:

- **padding: 25px 50px;**
 - top and bottom paddings are 25px
 - right and left paddings are 50px

If the padding property has one value:

- **padding: 25px;**
 - all four paddings are 25px

Inline CSS:

Inline CSS is a method that applies CSS styling directly to HTML elements using the 'style' attribute. This approach allows developers to define styles

for individual elements, making it an effective tool for applying unique styles to specific HTML elements.

Syntax: <tag style="property: value";>

Properties of CSS:

1. Background property:

The background property is a shorthand property for:

- background-color Syntax: background-color: *color*|transparent|initial|inherit;
- background-image Syntax: background-image: url('link/path');
- background-size Syntax: background-size: cover/100% ;
- background-repeat Syntax: background-repeat: no repeat;

It does not matter if one of the values above are missing, e.g. background:#ff0000 url(smiley.gif); is allowed.

2. Border property:

The border property is a shorthand property for:

- border-width Syntax: border-width: ;
- border-style (required) Syntax: border-style: dotted/dashed/solid/groove/ridge/inset/outset ;
- border-color Syntax: border-color: ;

If border-color is omitted, the color applied will be the color of the text.

Border shorthand property:

border: 2px solid red;

3. CSS Colors, Fonts and Sizes

Here, we will demonstrate some commonly used CSS properties. You will learn more about them later.

The CSS **color** property defines the text color to be used.

The CSS **font-family** property defines the font to be used.
The CSS **font-size** property defines the text size to be used.

Anchor tag:

The **<a>** tag defines a hyperlink, which is used to link from one page to another.

The most important attribute of the **<a>** element is the **href** attribute, which indicates the link's destination.

By default, links will appear as follows in all browsers:

- An unvisited link is underlined and blue
- A visited link is underlined and purple
- An active link is underlined and red

Syntax: ****

Example: **Visit W3Schools.com!**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>HTML</title>
  </head>
  <body>
    <h1>Heading 1</h1>
    <h2>Heading 2</h2>
    <h3>Heading 3</h3>
    <h4>Heading 4</h4>
    <h5>Heading 5</h5>
    <h6>Heading 6</h6>
    <p>Web development, also known as website development, refers to the tasks associated with creating, building, and maintaining websites and web applications that run online on a browser. It may, however, also include web design, web programming, and database management. Web development is closely related to the job of designing the features and functionality of apps (web design). The term development is usually reserved for the actual construction of these things (that is to say, the programming of sites). The basic tools involved in web development are programming languages called HTML (Hypertext Markup Language), CSS (Cascading
```

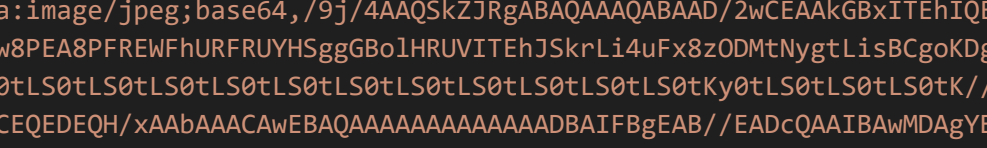
Style Sheets), and JavaScript. There are, however, a number of other programs used to “manage” or facilitate the construction of sites that would otherwise have to be done “from scratch” by writing code. A number of content management systems (CMS) fall into this category, including WordPress, Joomla!, Drupal, TYPO3, and Adobe Experience Manager, among others.

```

    <a href="course1.html">course1</a>
</body>
</html>

```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eos, voluptas
ducimus sequi illum ipsa exercitationem
    quas iste pariatur sed numquam recusandae corrupti saepe corporis
ratione, impedit blanditiis laudantium non
    consectetur sint unde. Eos quo, voluptates, ratione veniam quis
voluptate vero soluta id perspiciatis deleniti
    atque corrupti eaque sequi illo incidunt totam reiciendis esse sint ex!
Sequi eaque sapiente quam eveniet?
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Harum assumenda eligendi quisquam quia
    vitae et aliquam porro, molestias unde autem praesentium iusto qui
deserunt sed aspernatur eos voluptatem
    accusantium? Adipisci consequuntur, assumenda animi dolore ad
repudiandae sint ullam dignissimos?</p>
```



A large block of Base64 encoded data, likely a placeholder for a logo or image. The text is a long string of alphanumeric characters, including some special characters like slashes and plus signs, which are typical for Base64 encoding.

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