

**Cascading style sheets means**

**I'm not robot!**

# Difference Between

## HTML and CSS

HTML



CSS



CSS



Alternative Style Sheets



### CSS Selectors

| Selector                | Role   |
|-------------------------|--|
| <span>[p]</span>        | Tag selector, all <b>p</b> tags                      |
| <span>#para1</span>     | ID selector, all <b>p</b> tags with id="para1"       |
| <span>~para1</span>     | Class selector, all <b>p</b> tags with class="para1" |
| <span>p.para1</span>    | P tag with class para                                |
| <span>p~para1</span>    | P with child having class para                       |
| <span>div p1</span>     | Div with child p tag                                 |
| <span>*</span>          | All tags (Universal Selector)                        |
| <span>h1, h2, h3</span> | Only h1, h2 and h3 (grouping)                        |
| <span>para a1</span>    | A with parent para class                             |
| <span>body</span>       | Parent of all tags                                   |

Why it is called cascading style sheets. What does it mean that the style sheets are cascading. How do cascading style sheets work. What is meant by cascading style sheets.

View Discussion Improve Article Save Article Like Article Cascading Style Sheet(CSS) is used to set the style in web pages that contain HTML elements. It sets the background color, font-size, font-family, color, ... etc property of elements on a web page. There are three types of CSS which are given below: Inline CSSInternal or Embedded CSSExternal CSSInline CSS: Inline CSS contains the CSS property in the body section attached with element is known as inline CSS. This kind of style is specified within an HTML tag using the style attribute. Example: `Inline CSS` `GeeksForGeeks` `Output: Internal or Embedded CSS: This can be used when a single HTML document must be styled uniquely. The CSS rule set should be within the HTML file in the head section i.e the CSS is embedded within the HTML file. Example: Internal CSS` `main { text-align:center; } GFG { color:#009900; font-size:50px; font-weight:bold; } #geeks { font-style:bold; font-size:20px; } #geeks { font-size:bold; font-size:20px; }#below is the HTML file that is making use of the created external style sheet. link tag is used to link the external style sheet with the html webpage.href attribute is used to specify the location of the external style sheet file. GeeksForGeeks A computer science portal for geeks Output: Properties of CSS: Inline CSS has the highest priority, then comes Internal/Embedded followed by External CSS which has the least priority. Multiple style sheets can be defined on one page. If for an HTML tag, styles are defined in multiple style sheets then the below order will be followed. As Inline has the highest priority, any styles that are defined in the internal and external style sheets are overridden by Inline styles.Internal or Embedded stands second in the priority list and overrides the styles in the external style sheet.External style sheets have the least priority. If there are no styles defined either in inline or internal style sheet then external style sheet rules are applied for the HTML tags.Supported Browser:Google ChromeInternet ExplorerFirefoxOperaSafariCSS is the foundation of webpages, is used for webpage development by styling websites and web apps.You can learn CSS from the ground up by following this CSS Tutorial and CSS Examples. The definition of CSS on this page is an original TechTerms.com definition. If you would like to reference this page or cite this definition, you can use the green citation links above. The goal of TechTerms.com is to explain computer terminology in a way that is easy to understand. We strive for simplicity and accuracy with every definition we publish. If you have feedback about the CSS definition or would like to suggest a new technical term, please contact us. Want to learn more tech terms? Subscribe to the daily or weekly newsletter and get featured terms and quizzes delivered to your inbox. Find out how AT Internet will empower you to skyrocket your acquisition, conversion and retention rates. Our advanced and powerful solution is trusted by 1000s of our customers, including, the BBC, Le Monde and Total. Drive your web analytics into the fast lane! Educative Answers TeamTransforming the webpage using CSS1 of 5Copyright © 2022 Educative, Inc. All rights reserved.More examples Nearly all browsers nowadays support CSS and many other applications do, too. To write CSS, you don't need more than a text editor, but there are many tools available that make it even easier. Of course, all software has bugs, even after several updates. And some programs are further ahead implementing the latest CSS modules than others. Various sites describe bugs and work-arounds. More » For beginners, Starting with HTML + CSS teaches how to create a style sheet. For a quick introduction to CSS, try chapter 2 of Lie & Bos or Dave Raggett's intro to CSS. Or see examples of styling XML and CSS tips & tricks. Another page also has some books, mailing lists and similar fora, and links to other directories. The history of CSS is described in chapter 20 of the book Cascading Style Sheets, designing for the Web, by Håkon Wium Lie and Bert Bos (2nd ed., 1999, Addison Wesley, ISBN 0-201-59625-3) More » Site navigation Style sheet language "Pseudo-element" redirects here. For pseudoelement symbols in chemistry, see Skeletal formula § Pseudoelement symbols. For other uses, see CSS (disambiguation). For the use of CSS on Wikipedia, see Help:Cascading Style Sheets. Cascading Style Sheets (CSS)The official logo of the latest version, CSS 3File name extension .cssInternet media type text/cssUniform Type Identifier (UTI)public.cssDeveloped byWorld Wide Web Consortium (W3C)Initial release17 December 1996; 25 years ago (1996-12-17)Latest releaseCSS 2.1 · Level 2 Revision 112 April 2016; 6 years ago (2016-04-12)Type of formatStyle sheet languageContainer forStyle rules forHTML elements (tags)Contained byHTML DocumentsOpen format? YesWebsitewww.w3.org/TR/CSS/#css Cascading Style Sheets Style sheet CSS Zen Garden Concepts animations box model image replacement flexbox grid Philosophies Tableless Responsive "Holy grail" Tools Sass Less Stylus CSS2Tidy Comparisons CSS support Styleshete HTML Dynamic HTML HTML5 audio canvas video XHTML Basic Mobile Profile C-HTML HTML element span and div HTML attribute HTML frame HTML editor Character encodings named characters Unicode Language code Document Object Model Browser Object Model Style sheets CSS Font family Web colors JavaScript WebGL WebGL W3C Validator WHATWG Quirks mode Web storage Rendering engine Comparisons Document markup languages HTML support XHTML 1.1 vte Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML (including XML dialects such as SVG, MathML or XHTML).[1] CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.[2] CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts.[3] This separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, which reduces complexity and repetition in the structural content; and enable the .css file to be cached to improve the page load speed between the pages that share the file and its formatting. Separation of formatting and content also makes it feasible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (speech-based browser or screen reader), and on Braille-based tactile devices. CSS also has rules for alternate formatting if the content is accessed on a mobile device.[4] The name cascading comes from the specified priority scheme to determine which style rule applies if more than one rule matches a particular element. This cascading priority scheme is predictable. The CSS specifications are maintained by the World Wide Web Consortium (W3C). Internet media type (MIME type) text/css is registered for use with CSS by RFC 2318 (March 1998). The W3C operates a free CSS validation service for web pages in the HTML markup. All font colors, background colors, element alignments, borders and sizes had to be explicitly described, often repeatedly, within the HTML. CSS lets authors reuse much of that information to another file, the style sheet, resulting in considerably simpler HTML. For example, headings (h1 elements), sub-headings (h2), sub-sub-headings (h3), etc., are defined structurally using HTML. In print and on the screen, choice of font, size, color and emphasis for these elements is presentational. Before CSS, document authors who wanted to assign such typographic characteristics to, say, all h2 headings had to repeat HTML presentational markup for each occurrence of that heading type. This made documents more complex, larger, and more error-prone and difficult to maintain. CSS allows the separation of presentation from structure. CSS can define color, font, text alignment, size, borders, spacing, layout and many other typographic characteristics, and can do so independently for on-screen and printed views. CSS also defines non-visual styles, such as reading speed and emphasis for aural text readers. The W3C has now deprecated the use of all presentational HTML markup.[15] For example, under pre-CSS HTML, a heading element defined with red text would be written as: Chapter 1. Using CSS, the same element can be coded using style priorities instead of HTML presentational attributes: Chapter 1. The advantages of this may not be immediately clear but the power of CSS becomes more apparent when the style properties are placed in an internal style element or, even better, an external CSS file. For example, suppose the document contains the style element: h1 { color: red; } All h1 elements in the document will then automatically become red without requiring any explicit code. If the author later wanted to make h1 elements blue instead, this could be done by changing the style element to: h1 { color: blue; } rather than by laboriously going through the document and changing the color for each individual h1 element. The styles can also be placed in an external CSS file, as described below, and loaded using syntax similar to: This further decouples the styling from the HTML document and makes it possible to restyle multiple documents by simply editing a shared external CSS file. Sources CSS information can be provided from various sources. These sources can be the web browser, or the user, and the author. The information from the author can be further classified into inline, media type, importance, selector specificity, rule order, inheritance, and property definition. CSS style information can be in a separate document, or it can be embedded into an HTML document. Multiple style sheets can be imported. Different styles can be applied depending on the output device being used; for example, the screen version can be quite different from the printed version, so that authors can tailor the presentation appropriately for each medium. The style sheet with the highest priority controls the content display. Declarations not set in the highest priority source are passed on to a source of lower priority, such as the user agent style. The process is called cascading. One of the goals of CSS is to allow users greater control over presentation. Someone who finds red italic headings difficult to read may apply a different style sheet. Depending on the browser and the web site, a user may choose from various style sheets provided by the designers, or may remove all added styles and view the site using the browser's default styling, or may override just the red italic heading style without altering other attributes. CSS priority scheme (highest to lowest) Priority CSS source type Description 1 Importance The "important" annotation overrides the previous priority types 2 Inline A style applied to an HTML element via HTML "style" attribute 3 Media Type A property definition applies to all media types, unless a media specific CSS is defined 4 User defined Most browsers have the accessibility feature: a user defined CSS 5 Selector specificity A specific contextual selector (#heading p) overrides generic definition 6 Rule order Last rule declaration has a higher priority 7 Parent inheritance If a property is not specified, it is inherited from a parent element 8 CSS property definition in HTML document CSS rule or CSS inline style overwrites a default browser value 9 Browser default The lowest priority; browser default value is determined by W3C initial value specifications 10 Specificity Specificity refers to the relative weights of various rules.[16] It determines which styles apply to an element when more than one rule could apply. Based on specification, a simple selector (e.g. H1) has a specificity of 1, class selectors have a specificity of 1,0, and selectors a specificity of 1,0,0. Because the specificity values do not carry over, the emphasized word "illustrate" inherits the color of the parent element, p. The style sheet p has the color pink hence, the em element is pink. This is to illustrate inheritance. Whitespace Whitespace between properties and selectors is ignored. The code snippet: body { overflow:hidden;background:#000000;background-image:url(images/bg.gif);background-repeat:no-repeat;background-position:left top; } is functionally equivalent to this one: body { overflow: hidden; background-color: #000000; background-image: url(images/bg.gif); background-repeat: no-repeat; background-position: left top; } One common way to format CSS for readability is to indent each property and give it its own line. In addition to formatting CSS for readability, shorthand properties can be used to write out the code faster, which also gets processed more quickly when being rendered:[19] body { overflow: hidden; background: #000 url(images/bg.gif) no-repeat left top; } Sometimes, multiple property values are indented onto their own line.@font-face { font-family: 'Comic Sans'; font-size: 20px; src: url('first.example.com'), url('second.example.com'), url('third.example.com'), url('fourth.example.com'); } Positioning CSS 2.1 defines three positioning schemes: Normal flow Inline items are laid out in the same way as the letters in words in text, one after the other across the available space until there is no more room, then starting a new line below. Block items stack vertically, like paragraphs and like the items in a bulleted list. Normal flow also includes relative positioning of block or inline items, and run-in boxes. Floats A floated item is taken out of the normal flow and shifted to the left or right as far as possible in the space available. Other content then flows alongside the floated item. Absolute positioning An absolutely positioned item has no place in, and no effect on, the normal flow of other items. It occupies its assigned position in its container independently of other items.[20] Position property There are five possible values of the position property. If an item is positioned in any way other than static, then the further properties top, bottom, left, and right are used to specify offset from the static position. The element having position static is not affected by the top, bottom, left or right properties. Static The default value places the item in the normal flow. Relative The item is placed in the normal flow, and then shifted or offset from that position. Subsequent flow items are laid out as if the item had not been moved. Absolute Absolute absolute positioning. The element is positioned in relation to its nearest non-static ancestor. Fixed The item is absolutely positioned in a fixed position on the screen even as the rest of the document is scrolled.[20] Float and clear The float property may have one of three values. Absolutely positioned or fixed items cannot be floated. Other elements normally flow around floated items, unless they are prevented from doing so by their clear property. left The item floats to the left of the line that it would have appeared in; other items may flow around its right side, right The item floats to the right of the line that it would have appeared in; other items may flow around its left side. clear Forces the element to appear underneath ("clear") floated elements to the left (clear:left), right (clear:right) or both sides (clear:both).[20][21] History Håkon Wium Lie, chief technical officer of the Opera Software company and co-creator of the CSS web standards CSS was first proposed by Håkon Wium Lie on 10 October 1994.[22] At the time, Lie was working with Tim Berners-Lee at CERN.[23] Several other style sheet languages for the web were proposed around the same time, and discussions on public mailing lists and inside World Wide Web Consortium resulted in the first W3C CSS Recommendation (CSS1)[24] being released in 1996. In particular, a proposal by Bert Bos was influential; he became co-author of CSS1, and is regarded as co-creator of CSS.[25] Style sheets have existed in one form or another since the beginnings of Standard Generalized Markup Language (SGML) in the 1980s, and CSS was developed to provide style sheets for the web.[26] One requirement for a web style sheet language was for style sheets to come from different sources on the web. Therefore, existing style sheet languages like DSSSL and FOSI were not suitable. CSS, on the other hand, let a document's style be influenced by multiple style sheets by way of "cascading" styles.[26] As HTML grew, it came to encompass a wider variety of stylistic capabilities to meet the demands of web developers. This evolution gave the designer more control over site appearance, at the cost of more complex HTML. Variations in web browser implementations, such as ViolaWWW and WorldWideWeb,[27] made consistent site appearance difficult, and users had less control over how web content was displayed. The browser/editor developed by Tim Berners-Lee had style sheets that were hard-coded into the program. The style sheets could therefore not be linked to documents on the web.[23] Robert Calliau, also of CERN, wanted to separate the structure from the presentation so that different style sheets could describe different presentation or printing, screen-based presentations, and editors.[27] Improving web presentation capabilities was a topic of interest to many in the web community and nine different style sheet languages were proposed[30] on the WWW style mailing list.[26] Of these nine proposals, two were especially influential on what became CSS: Cascading HTML Style Sheets[22] and Stream-based Style Sheet Proposal (SSP).[25][28] Two browsers served as testbeds for the initial proposals; Lie worked with Yves Lafon to implement CSS in Dave Raggett's Arena browser.[29][30][31] Bert Bos implemented his own SP of these in the Argo browser.[25] Thereafter, Lie and Bos worked together to develop the CSS standard (the 'H' was removed from the name because these style sheets could also be applied to other markup languages besides HTML).[23] Lie's proposal was presented at the "Mosaic and the Web" conference (later called WWW2) in Chicago, Illinois in 1994, and again with Bert Bos in 1995.[23] Around this time the W3C was already being established, and took an interest in the development of CSS. It organized a workshop toward that end chaired by Steven Pemberton. This resulted in W3C adding work on CSS to the deliverables of the HTML editorial review board (ERB). Lie and Bos were the primary technical staff on this aspect of the project, with additional members, including Thomas Reardon of Microsoft, participating as well. In August 1996, Netscape Communication Corporation presented an alternative style sheet language called JavaScript Style Sheets (JSSS).[23] The spec was never finished, and is deprecated.[32] By the end of 1996, CSS was ready to become official, and the CSS level 1 Recommendation was published in December. Development of HTML, CSS, and the DOM had all been taking place in one group, the HTML Editorial Review Board (ERB). Early in 1997, the ERB was split into three working groups: HTML Working group, chaired by Dan Connolly of W3C; DOM Working group, chaired by Lauren Wood of SoftQuad; and CSS Working group, chaired by Chris Lilley of W3C. The CSS Working Group began tackling issues that had not been addressed with CSS level 1, resulting in the creation of CSS level 2 on November 4, 1997. It was published as a W3C Recommendation on May 12, 1998. CSS level 3, which was started in 1998, is still under development as of 2014. In 2005, the CSS Working Groups decided to enforce the requirements for standards more strictly. This meant that already published standards like CSS 2.1, CSS 3 Selectors, and CSS 3 Text were pulled back from Candidate Recommendation to Working Draft level. Difficulty with adoption This section needs to be updated. Please help update this article to reflect recent events or newly available information. (January 2019) The CSS 1 specification was completed in 1996. Microsoft's Internet Explorer 3[23] was released in that year, featuring some limited support for CSS. IE 4 and Netscape 4.x added more support, but it was typically incomplete and had many bugs that prevented CSS from being fully adopted. It was more than three years before any web browser achieved near-full implementation of the specification. Internet Explorer 5.0 for the Macintosh, shipped in March 2000, was the first browser to have full (better than 99 percent) CSS 1 support.[33] Surpassing Opera, which had been the leader since its introduction of CSS support fifteen months earlier. Other browsers followed soon afterward, and many of them additionally implemented parts of CSS 2.[citation needed] However, even when later "version 5" web browsers began to offer a fairly full implementation of CSS, they were still incorrect in certain areas and were fraught with inconsistencies, bugs and other quirks. Microsoft Internet Explorer 5.x for Windows, as opposed to the very different IE for Macintosh, had a flawed implementation of the CSS box model, as compared with the CSS standards. Such inconsistencies and variation in feature support made it difficult for designers to achieve a consistent appearance across browsers and platforms without the use of workarounds termed CSS hacks and filters. The IE Windows box model bugs were so serious that, when Internet Explorer 6 was released, Microsoft introduced a backwards-compatible mode of CSS interpretation ("quirks mode") alongside an alternative, corrected "standards mode". Other non-Microsoft browsers also provided mode-switching capabilities. It therefore became necessary for authors of HTML files to ensure they contained special distinctive "standards-compliant CSS intended" marker to show that the authors intended CSS to be interpreted correctly, in compliance with standards, as opposed to being intended for the now long-obsolete IE5/Windows browser. Without this marker, web browsers that have the "quirks mode"-switching capability will size objects in web pages as IE 5 on Windows would, rather than following CSS standards.[citation needed] Problems with patchy adoption of CSS, along with errata in the original specification, led the W3C to revise the CSS 2 standard into CSS 2.1, which moved nearer to a working snapshot of current CSS support in HTML browsers. Some CSS 2 properties that no browser successfully implemented were dropped, and in a few cases, defined behaviors were changed to bring the standard into line with the predominant existing implementations. CSS 2.1 became a Candidate Recommendation on February 25, 2004, but CSS 2.1 was pulled back to Working Draft status on June 13, 2005.[34] and only returned to Candidate Recommendation status on July 19, 2007.[35] In addition to these problems, the .css extension was used by a software product used to convert PowerPoint files into Compact Slide Show files,[36] so some web servers served all .css[37] as MIME type application/x-pointplus[38] rather than text/css. Vendor prefixes Individual browser vendors occasionally introduced new parameters ahead of standardization and universalization. To prevent interfering with future implementations, vendors prepended unique names to the parameters, such as -moz- for Mozilla Firefox, -webkit- named after the browsing engine of Apple Safari, -o- for Opera Browser and -ms- for Microsoft Internet Explorer and early versions of Microsoft Edge that use EdgeHTML. Occasionally, the parameters with vendor prefix such as -moz-radial-gradient and -webkit-linear-gradient have slightly different syntax as compared to their un-prefixed function. An exception is certain obsolete -webkit- prefixed properties, which are so common and persistent on the web that other families of browsers have decided to support them for compatibility.[40] Variations CSS Snapshot 2021 CSS has various levels and profiles. Each level of CSS builds upon the last, typically adding new features and typically denoted[citation needed] as CSS 1, CSS 2, CSS 3, and CSS 4. Profiles are typically a subset of one or the other more levels of CSS built for a particular device or user interface. Currently there are profiles for mobile devices, printers, and television sets. Profiles should not be confused with media types, which were added in CSS 2. CSS 1 The first CSS specification to become an official W3C Recommendation is CSS level 1, published on 17 December 1996. Håkon Wium Lie and Bert Bos are credited as the original developers.[41][42] Among its capabilities are support for Font properties such as typeface and emphasis Color of text, backgrounds, and other elements Text attributes such as spacing between words, letters, and lines of text Alignment of text, images, tables and other elements Margin, border, padding, and positioning for most elements Unique identification and generic classification of groups of attributes The W3C no longer maintains the CSS 1 Recommendation.[43] CSS 2 CSS level 2 specification was developed by the W3C and published as a recommendation in May 1998. A superset of CSS 1, CSS 2 includes a number of new capabilities like absolute, relative, and fixed positioning of elements and z-index, the concept of media types, support for aural style sheets (which were later replaced by the CSS 3 speech modules)[44] and bidirectional text, and new font properties such as shadows. The W3C no longer maintains the CSS 2 recommendation.[45] CSS 2.1 CSS level 2 revision 1, often referred to as "CSS 2.1", fixes errors in CSS 2, removes poorly supported or not fully interoperable features and adds already implemented browser extensions to the specification. To comply with the W3C Process for standardizing`



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