Cascading Style Sheets

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Cascading Style Sheets

- CSS have the capability to impose consistency of the style in web documents
- CSS are called cascading because they can be defined at three levels to specify the style of a document.
- Lower-level style sheets override higherlevel style sheets

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Levels of Style Sheets

- Inline (lowest level)
 - ☐ Single XHTML element
- Document
 - Whole body of a document
- External (highest level)
 - Bodies of any number of documents



Levels of Style Sheets

- The properties of a specific tag are those that result from a merge of all applicable style sheets
- If no style sheet information is specified, the browser default property values are used.

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Inline level

- Appear within the opening tag in the style attribute
 - □
- Do not separate presentation from content
- Deprecated in XHTML 1.1 by the W3C



Document level

Appear embedded in the document head section in the tag <style>

```
<head>
<style type="text/css">

p { font-size: 20pt; color: #6666ff }

</style>
</head>
```



External level

- Are not part of any of the documents to which they apply.
- CSS are written as text files with the MIME type text/css
- The tag is used to specify external style sheets

```
k rel="stylesheet" type= "text/css" href="mycss.css" />
```

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External style sheet

mycss.css

```
/* External style sheet comment */

/* Simple selector format:

XHTMLtag { style-rules }

*/

body { font-family: arial, helvetica, sans-serif }

h1 { font-size: 24pt; }

ul, li { margin-left: 20px } /* Applies to both tags */

li em { font-weight: bold } /* Applies to <em> tag insdide */

ul ul { font-size: .8em; } /* Applies to  tag insdide  */
```

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Class selectors

- Are used to allow different ocurrences of the same tag to use different style specifications
- A style class is defined in a style element by giving it a name

```
p.normal { font-size: 95%; }
p.warning { background-color: #FFD700; }
Normal presentation
Warning presentation
```

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Generic selectors

Apply to the content of more than one kind of tag

```
.info { background-color: #00AACC; }

Information in a paragraph
<h3 class="warning">Information in a level 3 header</h3>
Information in a list item
<div class="info">...</div>
```



id selectors

 Allows the application of a style to one specific element (workaround for inline styles)

```
#paragraph2 { font-size: 20pt; color: #6666ff; }
```

```
Paragraph 2 information
```

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Universal selectors

Apply to all elements in the document

```
* { color: red; }
```

Pseudo classes

Apply when something happens

```
Input:hover { color: red; }
Input:focus { color: green; }
```

Color properties

- Color names: red, green, blue
- RGC: rgb(255, 255, 255)
- Hexadecimal: #0077FF

Font properties

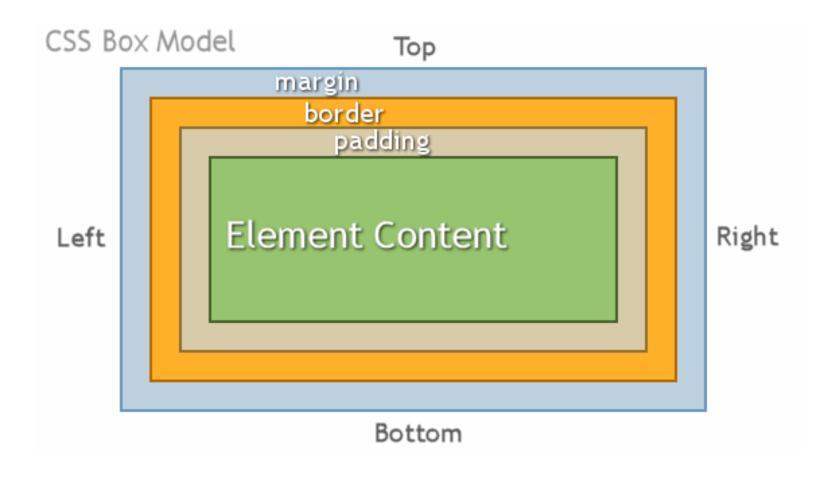
- font-family: serif, sans-serif, cursive, fantasy, monospace
- font-size:
 - □ Relative: xx-small, x-small, small, medium, large, x.large, xx-large, 50%, 90%, 1.5em (M-height of the font)
 - ☐ Absolute: 10pt
- font-style: italic
- font-weight: bold

List properties

- list-style-image: url(bullet.gif)
- List styles:

```
ol { list-style-type: upper-roman }
ol ol ol { list-style-type: upper-alpha }
ol ol ol ol { list-style-type: decimal }
```

The box model



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The box model

- CSS controls the border using three properties: border-width, border-color, border-style
- padding: Distance between the content inside an element and the inside of the element's border
- padding and margin can have a specific value for individual sides: margin-top, padding-bottom, margin-right, padding-left, etc.



Conflict resolution

- !important
 - □ Property values can be declared as !important
- Precedence
 - □ Id selectors
 - Class and pseudo-class selectors
 - □ Contextual selectors (more element type names means they are more specific)
 - Universal selectors