

Text Color: The color property is used to set the color of the text.

Text Alignment: The text-align property is used to set the horizontal alignment of a text.

Text can be centered, or aligned to the left or right, or justified.

Text Decoration: The text-decoration property is used to set or remove decorations from text.

The text-decoration property is mostly used to remove underlines from links for design purposes:

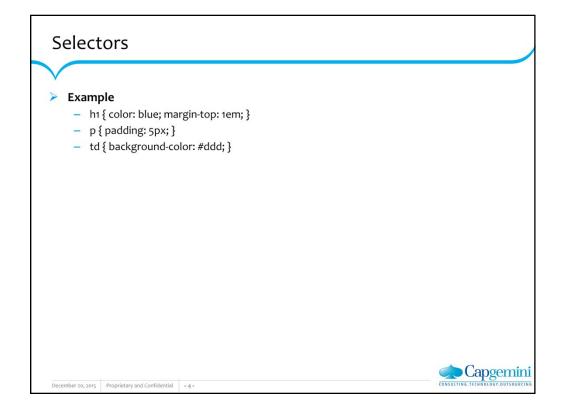
Text Transformation: The text-transform property is used to specify uppercase and lowercase letters in a text.

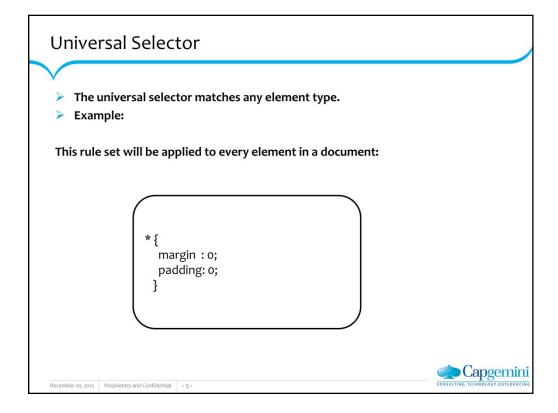
It can be used to turn everything into uppercase or lowercase letters, or capitalize the first letter of each word.

Text Indentation: The text-indentation property is used to specify the indentation of the first line of a text.

Text Shadow: In CSS3, the text-shadow property applies shadow to text

Word Wrapping:In CSS3, the word-wrap property allows you to force the text to wrap - even if it means splitting it in the middle of a word





It's important not to confuse the universal selector with a wildcard character—the universal selector doesn't match "zero or more elements." Consider the following HTML fragment:

```
<br/>
<body>
<div>
<h1>The <em>Universal</em> Selector</h1>
We must <em>emphasize</em> the following:

It's <em>not</em> a wildcard.
It matches elements regardless of <em>type</em>.

This is an <em>immediate</em> child of the division.
</div>
</body>
```

The selector div * em will match the following em elements:

```
"Universal" in the h1 element (* matches the <h1>)

"emphasize" in the p element (* matches the )

"not" in the first li element (* matches the  or the )

"type" in the second li element (* matches the  or the )
```

However, it won't match the immediate element, since that's an immediate child of the div element—there's nothing between <div> and for the * to match.

Type selectors

- While the universal selector matches any element, an element type selector matches elements with the corresponding element type name.
- Type selectors are case insensitive in HTML (including XHTML served as text/html), but are case sensitive in XML (including XHTML served as XML).
- Example

```
ul {
: declarations
}
```

- A type selector like the above ul matches all the elements within an HTML or XML document that are marked up as follows:
- > ...

December 20, 2015 Proprietary and Confidential - 6 -



The most common and easy to understand selectors are type selectors. Type selectors will select any HTML element on a page that matches the selector, regardless of their position in the document tree. For example:

em {color: blue; }

This rule will select any element on the page and color it blue. As you can see from the document tree diagram below, all elements will be colored blue, regardless of their position in the document tree

There are a huge range of elements that you can select using type selectors, which means you can change the appearance of any or every element on your page using only type selectors.

Class Selectors

- Selecting elements on the basis of their class names is a very common technique in CSS
- While type selectors target every instance of an element, class selectors can be used to select any HTML element that has a class attribute, regardless of their position in the document tree.
- Example:

```
<body>
class="big">This is some <em>text</em>
This is some text

cli class="big">List item
li>List item
cli>List <em>item</em>
</body>
```

.big { font-size: 110%; font-weight: bold; }

Above code targets the first paragraph and first list items on a page to make them stand out



Combining class and type selectors:

December 20, 2015 Proprietary and Confidential - 7 -

If you want to be more specific, you can use class and type selectors together. Any type selectors can be used.

```
div.big { color: blue; }
td.big { color: yellow; }
label.big { color: green; }
form.big { color: red; }
```

ID Selector

An ID selector matches an element that has a specific id attribute value. Since id attributes must have unique values, an ID selector can never match more than one element in a document.

In its simplest form, an ID selector looks like this:

```
#navigation
{
: declarations
}
```

This selector matches any element whose id attribute value is equal to "navigation"

```
#firstname
{
background-color:yellow;
}
```

December 20, 2015 Proprietary and Confidential - 8 -



Code:

```
<!DOCTYPE html>
<html>
<head>
<style>
#firstname
{
              background-color:yellow;
</style>
</head>
<body>
<h1>Welcome to My Homepage</h1>
<div class="intro">
My name is iGATE.
I live in Bangalore.
</div>
My best friend was Patni.
</body>
</html>
```

Attribute Selector

- All HTML elements can have associated properties, called attributes. These attributes generally have values. Any number of attribute/value pairs can be used in an element's tag as long as they are separated by spaces. They may appear in any order.
- In the example below, the code segments highlighted in blue are attributes and the segments highlighted in red are attribute values

```
<h1 id="section1"/>
<img src="small.gif" width="100" height="100"/>
<img title="mainimage" alt="main image"/>
<a href="foo.htm"/>

<form style="padding: 10px"/>
```



Attribute Selector

- Attribute selectors are used to select elements based on their attributes or attribute value. For example, you may want to select any image on an HTML page that is called "small.gif". This could be done with the rule below, that will only target images with the chosen name:
- There are four types of attribute selectors.
 - Example for Select based on attribute

```
img[title] { border: 1px solid #000; }
img[width] { border: 1px solid #000; }
```

- The example above will select an element (in this case "img") with the relevant attribute
- Example for Select based on value

```
img[src="small.gif"] { border: 1px solid #000; }
```

 The above example selects any image whose attribute (in this case "src") has a value of "small.gif"



December 20, 2015 Proprietary and Confidential - 10 -

Attribute Selectors

Example for Select space separated instances of a value

img[alt~="small"] { border: 1px solid #000; }

- The example below will select any image whose attribute (in this case "alt") contains a space separated list of words - in this case any "alt" that includes the word "small".
- Select hyphen separated instances of a value

```
img[title|="small"] { border: 1px solid #000; }
```

 The example below will select any image whose attribute (in this case "title") has a hyphen separated list - in this case any title that includes "small-"

December 20, 2015 Proprietary and Confidential - 11 -



Pseudo Classes

- A pseudo-class is similar to a class in HTML, but it's not specified explicitly in the markup. Some pseudo-classes are dynamic—they're applied as a result of user interaction with the document.
- A pseudo-class starts with a colon (:). No whitespace may appear between a type selector or universal selector and the colon, nor can whitespace appear after the colon.

aber 20, 2015 Proprietary and Confidential - 12 -

Capgemini

CSS1 introduced the :link, :visited, and :active pseudo-classes, but only for the HTML a element. These pseudo-classes represented the state of links—unvisited, visited, or currently being selected—in a web page document. In CSS1, all three pseudo-classes were mutually exclusive.

CSS2 expanded the range of pseudo-classes and ensured that they could be applied to any element. :link and :visited now apply to any element defined as a link in the document language. While they remain mutually exclusive, the :active pseudo-class now joins :hover and :focus in the group of dynamic pseudo-classes. The :hover pseudo-class matches elements that are being designated by a pointing device (for example, elements that the user's hovering the cursor over); :active matches any element that's being activated by the user; and :focus matches any element that is currently in focus (that is, accepting input).

CSS2 also introduced the <u>:lang</u> pseudo-class to allow an element to be matched on the basis of its language, and the <u>:first-child</u>pseudo-class to match an element that's the first child element of its parent.

CSS3 promises an even greater range of powerful pseudo-classes.

Remember that pseudo-classes, like <u>ID selectors</u> and <u>attribute selectors</u>, act like modifiers on <u>type selectors</u> and the <u>universal selector</u>: they specify additional constraints for the selector pattern, but they don't specify other elements. For instance, the selector li:first-child matches a list item that's the first child of its parent; it doesn't match the first child of a list item.

Pseudo Classes

Pseudo class	Description
:link	matches link elements that are unvisited
:visited	matches link elements that have been visited
:active	matches any element that's being activated by the user
:hover	matches elements that are being designated by a pointing device
:focus	matches any element that's currently in focus
:first-child	matches any element that's the first child element of its parent
:lang(C)	allows elements to be matched on the basis of their languages

CSS 3 - Pseudo Classes

Pseudo class		Description
:nth-child(N)		matches elements on the basis of their positions within a parent element's list of child elements
:nth-last-child(N	٧)	matches elements on the basis of their positions within a parent element's list of child elements
:nth-of-type(N)		matches elements on the basis of their positions within a parent element's list of child elements of the same type
:nth-last-of-type	e(N)	matches elements on the basis of their positions within a parent element's list of child elements of the same type
:last-child		matches an element that's the last child element of its parent element
:first-of-type		matches the first child element of the specified element type
:last-of-type		matches the last child element of the specified element type

CSS 3 - Pseudo Classes

Pseudo class	Description
:only-child	matches an element if it's the only child element of its parent
:only-of-type	matches an element that's the only child element of its type
:root	matches the element that's the root element of the document
:empty	matches elements that have no children
:target	matches an element that's the target of a fragment identifier in the document's URI
:enabled/:disabled	matches user interface elements that are enabled/disabled respectively
:checked Pseudo-class	matches elements like checkboxes or radio buttons that are checked
:not(S)	matches elements that aren't matched by the specified selector

Demo: Selector demoType.html demoId.html demoClass.html demoAttributeSelector.html demoPseudoClasses.html

