

## **CSS**



## History

- <i><i><b>
- <u>
- font size=,...">

All these HTML tags now are depricated



#### What is CSS?

- CSS stands for Cascading Style Sheets
- Styles define how to display HTML elements
- Styles were added to HTML 4.0 to solve a problem
- Multiple style definitions will cascade into one



### **Examples**

- CSS Zen Garden
- http://www.csszengarden.com/
- http://www.mezzoblue.com/zengarden/alldesigns/



### Examples

CSS contents

p.right {text-align: right}

#### HTML contents

This paragraph will be center-aligned.



## CSS inserting

<b>External</b> Style Sheet	<head> <li>link rel="stylesheet" type="text/css" href="mystyle.css" /&gt; </li></head>
Internal Style Sheet	<head> <style type="text/css"> hr {color: sienna} p {margin-left: 20px} body {background-image: url("images/back40.gif")} </style> </head>
Inline Styles	<pre> This is a paragraph</pre>



### Cascading Order

- Browser default
  - Inherited Style
    - External Style Sheet
      - Internal Style Sheet (inside the <head> tag)
        - Inline Style (inside HTML element)



### CSS syntax

- The CSS syntax is made up of three parts:
  - selector
  - property
  - value

```
selector {property: value [;...]}
```

```
body { color: black; }
```

```
p {
  text-align: center;
  color: black;
  font-family: arial;
}
```



## Grouping & Class

Grouping

```
h1,h2,h3,h4,h5,h6 { color: green }
```

Class selector

```
p.right { text-align: right }
.center { text-align: center }
```

```
  This paragraph will be center-aligned.
```



## Grouping & Class (2)

Using multiple classes

```
p.right {text-align: right; color: red;}
p.green1 {color: green;}
```

```
    This paragraph will be ...
```



## Grouping & Class (2)

Using multiple classes

```
p.right {text-align: right; color: red;}
p.green1 {color: green;}
```

```
p.green1 { color:blue; }
```

```
    This paragraph will be ...
```



#### Class essence

- Helps to structure CSS by semantic meaning:
  - Title
  - Contents
  - Menu
  - Header, footer
  - • •
- Reuses same styles if structure has a model
  - Example: title-content block



#### ID selector

```
p#para1 { text-align: center; color: red; }
```

```
#right { text-align: right; }
```

```
   This paragraph will be center-aligned.
```



### Comments

/\* This is a comment \*/



#### Pseudo-Class

It is possible to use pseudo-classes in CSS

selector:pseudo-class {property: value}

```
a:link {color: #FF0000} /* unvisited link */
a:visited {color: #00FF00} /* visited link */
a:hover {color: #FF00FF} /* mouse over link */
a:active {color: #0000FF} /* selected link */
```



#### Pseudo-Class combined

pseudo-class with class

selector:class.pseudo-class {property: value}

a.red:visited {color: #FF0000}

<a class="red" href="..."> CSS Syntax </a>



#### Pseudo-element

Pseudo-element

```
p:first-letter {color: #FF0000}
p:first-line {color: #00FF00}
```



# Media types

Media Type	Description
all	all media type devices
aural	speech and sound synthesizers
braille	braille tactile feedback devices
embossed	paged braille printers
handheld	small or handheld devices
print	printers
projection	projected presentations, like <b>slides</b>
screen	computer screens
tty	media using a fixed-pitch character grid, like <b>teletypes</b> and <b>terminals</b>
tv	television-type devices



## Combining

div p { text-indent:25px }

```
<div>
    This paragraph will be indented.
    This paragraph will be indented
```



#### **CSS** Attribute Selectors

```
[onclick]
{
    color: blue;
}
```

```
    This paragraph is blue.
```



#### **Problems**

- Browsers has different default CSS
- Browsers interpret CSS differently



#### Hints

- Always force refresh if style sheet is in .css file
- CSS Debuggers
  - Firebug (Firefox add-in)
  - IE developer toolbar



## Browser support of CSS

- http://www.w3schools.com/cssref/css3\_browsersupport.asp
- Not all browsers supports the same CSS properties



### **CSS** frameworks

- Why to use them?
- What do whey do?



### References

 Lecture slides prepared using tutorials from http://www.w3schools.com