# Introduction to CS520/CS596\_026

Lecture One

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### Requirements

- Cygwin
- Nginx/php/mysql
- Course website: www.sit.academy

#### INSTALL

- Nginx/php/mysql
  - http://wtriple.com/wtnmp/?wtSrc=exe
- Aptana
  - http://www.aptana.com/products/studi o3/download.html
- Cygwin
  - http://cygwin.com/install.html

#### **Tools**

 http://bluefish.mrball.net/stable/binaries/ win32/

 http://www.aptana.com/products/studio3/ download.html

 http://www.eclipse.org/downloads/packa ges/eclipse-php-developers/heliossr2

#### What is HTML?

HTML is a markup language for describing web documents (web pages).

- HTML stands for Hyper Text Markup Language
- A markup language is a set of markup tags
- HTML documents are described by HTML tags
- Each HTML tag describes different document content

# Example

```
<!DOCTYPE html>
<html>
         <head>
                  <title>Page Title</title>
         </head>
         <body>
                  <h1>My First Heading</h1>
                  My first paragraph.
         </body>
</html>
```

Save as .html or .htm file

### **HTML Versions**

Tim Berners-Lee invented www	1989
Tim Berners-Lee invented HTML	1991
Dave Raggett drafted HTML+	1993
HTML Working Group defined HTML 2.0	1995
W3C Recommended HTML 3.2	1997
W3C Recommended HTML 4.01	1999
W3C Recommended XHTML 1.0	2000
HTML5 WHATWG First Public Draft	2008
HTML5 WHATWG Living Standard	2012
HTML5 W3C Final Recommendation	2014

#### !DOCTYPE

- HTML 5
- <!DOCTYPE html>
- HTML 4.01
- <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
- HTML 1.0
- <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1transitional.dtd">

#### Comments

- <!-- Write your comments here →</li>
- <!--[if IE 8]>
  - .... some HTML here ....
- <![endif]-->

### HTML Tags

- <tag> content </tag>
- Tags can be nested
- HTML headings are defined with the <h1> to <h6> tags
- , , <a>, <img>
- Empty element: <br> or <br/>
- <hr>>
- defines preformatted text.

### **Attributes**

- lang="en-US" for html
- title for p
- href for a
- width and height for img or use style style="width:304px;height:228px;"
  - Use the style attribute. It prevents styles sheets from changing the original size of images

# HTMI Styles - inline

- style="property:value; property:value;"
- <h1 style="color:blue">This is a heading</h1>
- This is a paragraph.
- background-color, color, font-family, font-size, test-align

# HTMI Styles – Internal CSS

```
<head>
<style>
Body {background-color:lightgrey}
h1 {color:blue}
p {color:green}
</style>
</head>
```

# HTML Styles – External CSS

```
<head>
   <link rel="stylesheet" href="styles.css">
</head>
  To define a special style for one special element, add an id attribute to the
   element
p#p01 {
  color:blue;
I am different
  To define a style for a special type (class) of elements, add a class attribute to
  the element
p.error {
 color:red;
Whoops
```

# Styles - <a>

```
<style>
              {color:green; background-color:transparent;
             text-decoration:none}
        a:visited {color:pink; background-color:transparent;
             text-decoration:none}
        a:hover {color:red; background-color:transparent;
             text-decoration:underline}
        a:active {color:yellow; background-color:transparent;
             text-decoration:underline}
</style>
```

# Styles - floating

```
>
         <img src="smiley.gif" alt="Smiley face"</pre>
               style="float:right;width:42px;height:42px;">
         The image will float to the right of the text.
>
         <img src="smiley.gif" alt="Smiley face"</pre>
               style="float:left;width:42px;height:42px;">
         The image will float to the left of the text.
```

### Table

```
<style>
          table, th, td {
             border: 1px solid black;
             border-spacing: 5px;
          th, td {
             padding: 15px;
             text-align: left;
</style>
```

# Table – more styles

```
table#t01 tr:nth-child(even) {
  background-color: #eee;
table#t01 tr:nth-child(odd) {
  background-color: #fff;
table#t01 th {
  color: white;
  background-color: black;
```

#### CSS

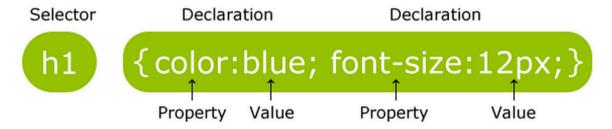
#### What is CSS?

- CSS stands for Cascading Style Sheets
- CSS defines how HTML elements are to be displayed
- Styles were added to HTML 4.0 to solve a problem
- CSS saves a lot of work
- External Style Sheets are stored in CSS files

#### **CSS**

#### CSS Syntax

A CSS rule set consists of a selector and a declaration block:



The selector points to the HTML element you want to style.

The declaration block contains one or more declarations separated by semicolons.

Each declaration includes a property name and a value, separated by a colon.

#### CSS Example

A CSS declaration always ends with a semicolon, and declaration groups are surrounded by curly braces:

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

### Selector

- element
- id
- class

### **CSS Comment**

```
Use c/c++/Java like comnet
```

/\*

\*/