

# Web Systems Fundamentals 7.5 credits

HTML and ASP.NET primer

- Basic HTML in Notepad
- HTML in Visual Studio
- ASP.NET in Visual Studio



För utveckling av verksamhet, produkter och livskvalitet



# Last Thursday vs today

- **Last Thursday:**
  - ASP.NET basics w/ an introduction to very basic programming
  - Mainly theoretical
  - The HTML-part resulted in a URI to [W3schools.com](http://W3schools.com)
- **Today:** reversed evolution & progress
  - Crash course in the utmost fundamental HTML/CSS basics
  - Hands-on-demonstration in Notepad and Visual Studio

# HTML Standards

- Parsed by browser: may look different in different browsers
- Standards set by the World Wide Web Consortium (W3C) <http://w3.org/>
- Be careful with fonts!
  
- Test your HTML pages at <http://validator.w3.org/> for validation
  - [http://validator.w3.org/check?uri=hh.se&charset=%28detect+automatically%29&doctype=Inline&ss=1&group=0&user-agent=W3C\\_Validator%2F1.2](http://validator.w3.org/check?uri=hh.se&charset=%28detect+automatically%29&doctype=Inline&ss=1&group=0&user-agent=W3C_Validator%2F1.2)
  - [http://validator.w3.org/check?uri=http%3A%2F%2Fwww.google.com&charset=%28detect+automatically%29&doctype=Inline&ss=1&group=0&user-agent=W3C\\_Validator%2F1.2](http://validator.w3.org/check?uri=http%3A%2F%2Fwww.google.com&charset=%28detect+automatically%29&doctype=Inline&ss=1&group=0&user-agent=W3C_Validator%2F1.2)
  - [http://validator.w3.org/check?uri=http%3A%2F%2Fwww.britneyspears.com&charset=%28detect+automatically%29&doctype=Inline&ss=1&group=0&user-agent=W3C\\_Validator%2F1.2](http://validator.w3.org/check?uri=http%3A%2F%2Fwww.britneyspears.com&charset=%28detect+automatically%29&doctype=Inline&ss=1&group=0&user-agent=W3C_Validator%2F1.2)
- Test them at <http://browsershots.org/> for browser compatibility

# HTML Testing

- Test them at <http://browsershots.org/> for browser compatibility

## Screenshot request group 1

Submitted 5 minuter ago , Expires in 24 minuter [Extend](#) [Cancel](#)

Queue Estimate: 3 minuter to 52 minuter ([Details](#))

61 browsers selected, 2 starting, 16 uploaded



Shiretoko 3.5  
Debian Testing



Dillo 2.2 Ubuntu  
8.04 LTS



Kazehakase  
0.5.2 Ubuntu  
8.04 LTS



Dillo 0.8.6  
Debian Testing



Opera 10.60  
Debian Testing



Minefield 3.7  
Debian Testing



Iceape 1.1.13  
Debian Testing



Epiphany 2.30.2  
Ubuntu 9.10



Firefox 4.0  
Debian Testing



Chrome  
5.0.375.99  
Debian Testing



Iceweasel  
2.0.0.19 Debian  
4.0

# HTML Code

- The code consists of markup tags within angle brackets
  - `<h1>HEADLINE TEXT</h1>`
- With some exceptions (`<br>` etc.), tags come in pairs
  - Opening tag – code between – closing tag
  - `<html>...</html>` `<h1>...</h1>` `<a href="">...</a>`
- The anatomy of a HTML document: two basic elements
  - **<head>**
    - Provides a page title and general page formatting commands
    - Includes references to CSS-files, JS-files etc.
  - **<body>**
    - Includes the main HTML page structure
    - = this is where you put your text and images

# The anatomy of a HTML document

```
<html>  
  <head>  
    ...  
  </head>  
  <body>  
    ...  
  </body>  
</html>
```

# A simple HTML document

```
<html>  
  <head>  
    <title>Goodbye world</title>  
  </head>  
  <body>  
    <h1>Hello headline</h1>  
    <p>Hello paragraph</p>  
  </body>  
</html>
```

# Click Me!

```
<html>
  <head>
    <title>Goodbye world</title>
  </head>
  <body>
    <h1>Hello headline</h1>
    <p>Hello paragraph</p>
  </body>
</html>
```



# Common HTML tags

- Headers `<h1>`, `<h2>`, `<h3>`
- Paragraphs `<p>`
- Line breaks `<br>`

```
<b>Bold text</b>
```

```
<i>Italic text</i>
```

```
<u>Underlined text</u>
```

- Lists: Unordered (`ul`) or ordered (`ol`)

```
<ul>
```

```
  <li>List item 1</li>
```

```
  <li>List item 2</li>
```

```
</ul>
```

# Common HTML tags

- Links

- `www` `<a href="http://www.hh.se/">Link text</a>`
- `@` `<a href="mailto:jake@easy.afk">Link text</a>`

- Tables:

```
<table>
  <tr>
    <td>Text in cell 1</td>
    <td>Text in cell 2</td>
  </tr>
</table>
```

# HTML tag attributes

- Images ``
  - `src="link_to_something.extension"`
  - `alt="alternate text if the image isn't shown"`
  - `title="mouse over text"`
  - `height="1920px"` - image height
  - `width="1080px"` - image width

```
<html>
  <head>
    <title>Goodbye world</title>
  </head>
  <body>
    <h1>Hello headline</h1>
    <h2>Smaller headline</h2>

    <p>
      I'm <b>bold</b>,
      <i>italic</i>
      <br>
      and <u>underlined</u>
    </p>

    <ul>
      <li>List item 1</li>
      <li>List item 2</li>
    </ul>

    <a href="http://www.hh.se/">HH's website</a>

  </body>
</html>
```

# Grouping and styling

- **Division/section**

```
<div>  
    whatever  
</div>
```

- **Span - applies styles to parts**

```
<span style="color:red">TEXT</span>  
<span class="classname">TEXT</span>
```

# CSS syntax: similar but different

```
selector { property: value }
```

```
body {  
  background: #eeeeee;  
  font-family: "Trebuchet MS", Verdana, Arial, serif;  
  font-size: 1.2 em;  
}
```

```
HTML: <div id="minbox">text i min box</div>
```

```
#minbox{  
  width: 80%;  
  margin: auto;  
  padding: 20px;  
  border: 15px solid #999;  
  background: #f4F4F4;  
}
```

# So, where do I put my CSS?

```
<html>
  <head>
    <title>Goodbye world</title>
    <style type="text/css">
      body {
        background: #eeeeee;
        font-family: "Trebuchet MS", Verdana, Arial, serif;
        font-size: 1.2 em;
      }
      #minbox{
        width: 80%;
        margin: auto;
        padding: 20px;
        border: 15px solid #999;
        background: #f4F4F4;
      }
    </style>
  </head>
  <body>
  </body>
</html>
```

# The benefit of linking: reusability

## HTML FILE (index.html)

```
<html>
  <head>
    <title>Goodbye world</title>
    <link href="style.css" rel="stylesheet" type="text/css">
  </head>
  <body>
    <div id="minbox">
    </div>
  </body>
</html>
```

## CSS FILE (style.css)

```
body {
  background: #eeeeee;
  font-family: "Trebuchet MS", Verdana, Arial, serif;
  font-size: 1.2 em;
}
#minbox{
  width: 80%;
  margin: auto;
  padding: 20px;
  border: 15px solid #999;
  background: #f4F4F4;
}
```



# Click Me!

# Repeating the process...

- ...in Visual Studio 2010