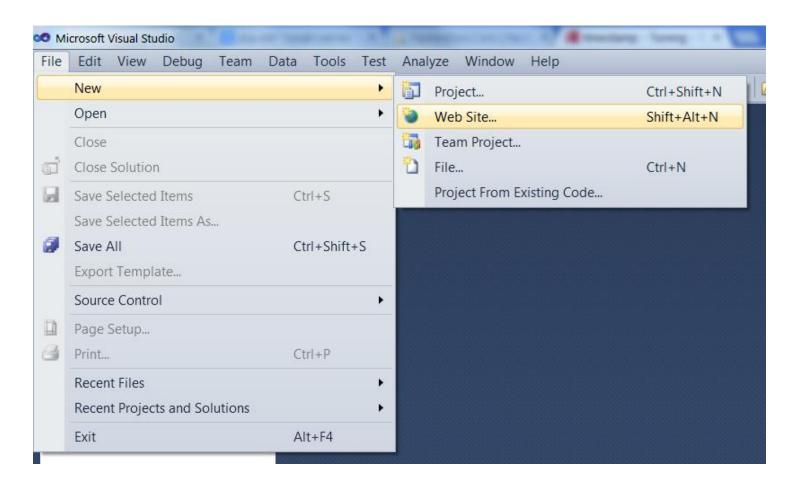
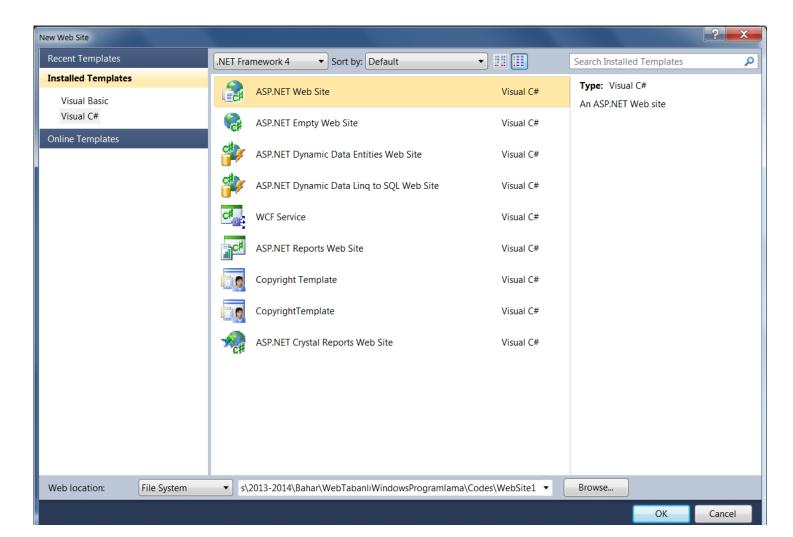
Getting Started with ASP.NET

Asst. Prof. Dr. Özgü Can

• File > New > Web Site

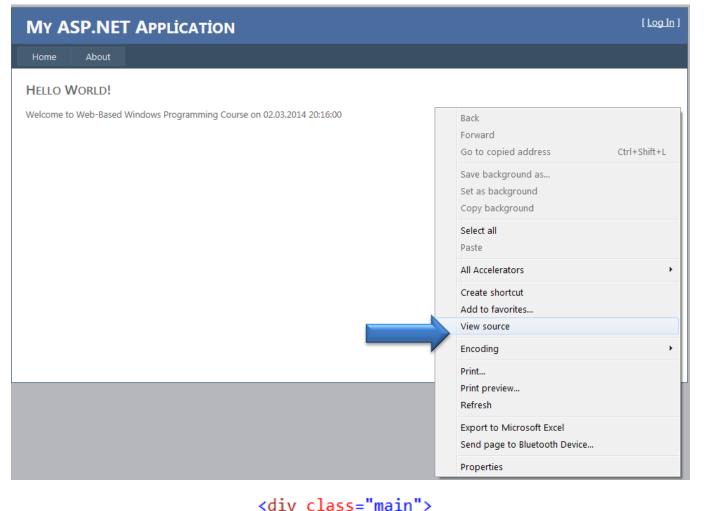


ASP.NET Web Site





- File > New > Web Site > ASP.NET Web Site
- Default.aspx



```
<h2>
    Hello World!
</h2>

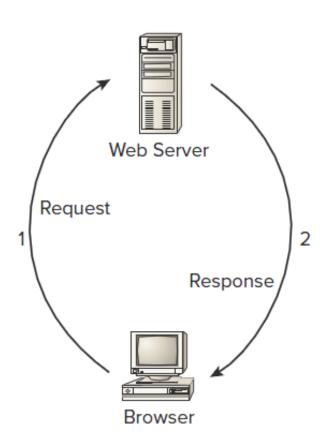
    Welcome to Web-Based Windows Programming Course on 02.03.2014 20:16:00

</div>
```

HTTP

Hyper Text Transfer Protocol

- 1. Send a *request* to the server.
- 2. When the server is active and the request is valid:
 - the server accepts the request
 - processes it
 - sends the *response* back to the client browser



HTML

HyperText Markup Language

- Language for creating web pages
- The text with angle brackets is referred to as a tag
- A pair of tags holding some text or other content is referred to as an *element*.

```
Hello World!
</h2>
Welcome to Web-based Windows Programming.
<br/><br/>Current Time: 28.02.2013 15:04:33
```

HTML

TAG	DESCRIPTION	EXAMPLE
<html></html>	Used to denote the start and end of the entire page.	<html>All other content goes here </html>
<head></head>	Used to denote a special section of the page that contains data about the page, including its title and references to external resources.	<head> Content goes here </head>
<title></td><td>Used to define the title of the page. This title will appear in the browser's title bar.</td><td><title> Welcome to Planet Wrox 4 </title>		
<body></body>	Used to denote the start and end of the body of the page.	<pre><body> Page body goes here </body></pre>
<a>	Used to link one web page to another.	 Visit the Wrox site
	Used to embed images in a page.	<pre></pre>
<i><u></u></i>	Used to format text in a bold, italic, or underline font.	This is bold text while <i>this text is in italic</i>
<form> <input/> <textarea> <select></td><td>Used for input forms that enable users to submit information to the server.</td><td><pre><input type="text" value="Some Text" /></pre></td></tr></tbody></table></textarea></form>		

HTML Attributes

- Attributes contain additional information that changes the way a specific element behaves.
- The tag that is used to display an image, the src attribute defines the source of that image.

HTML standard:

http://www.w3.org/TR/html401/index/elements.html

XHTML

Extensible HyperText Markup Language

• XHTML is a reformulation of HTML in XML — eXtensible Markup Language.

 XHTML is in fact largely just HTML rewritten with XML rules.

Always Close Your Elements

- Start a paragraph with & use somewhere later to close the paragraph.
- Self-closing Tags
 - -
 -
 - <u>-</u>

 -

Always Use Lowercase for Tags & Attribute Names

- XML is case sensitive.
- Although the tags and attributes must be in all lowercase, the actual value doesn't have to be.

Always Enclose Attribute Values in Quotes

Valid:

Invalid:

 You could also use single quotes to enclose the attribute value.

Nest Your Elements Correctly

- First close the inner element you opened last, and then close the outer element.
- Valid:

<i>This is some formatted text</i>



Invalid:

<i>This is some formatted text</i>



Always Add a DOCTYPE Declaration to Your Page

 A DOCTYPE gives the browser information about the kind of HTML it can expect.

By default: XHTML 1.0

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

NOTES

CHECK

HTML Tutorial

http://www.w3schools.com/html/default.asp

BOOK

Jon Duckett, Beginning Web Programming with HTML, XHTML, and CSS, 2nd Edition.

ASP.NET Markup

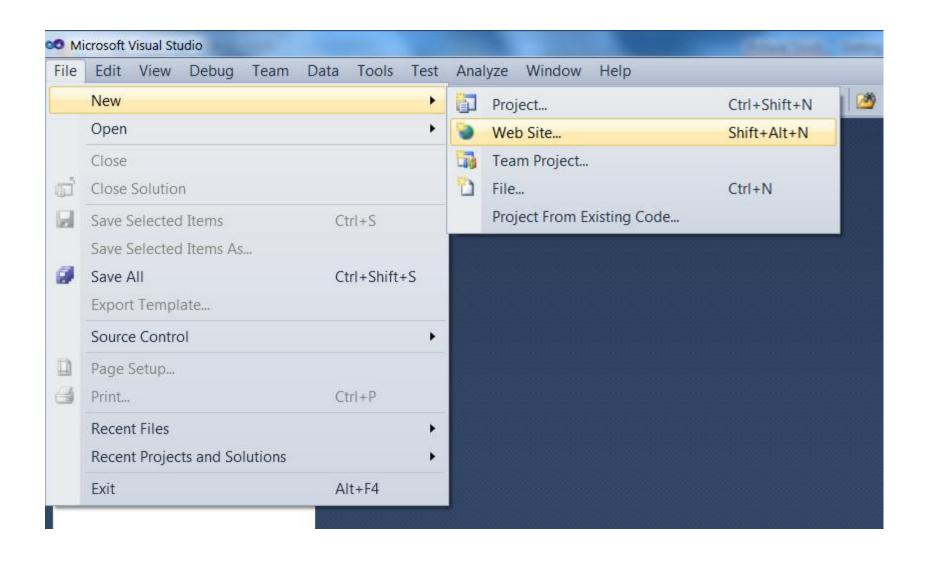
- Similar to that of HTML
- ASP.NET tags start with an asp: prefix.

```
eliminating
the need
to type a
separate
closing tag
```

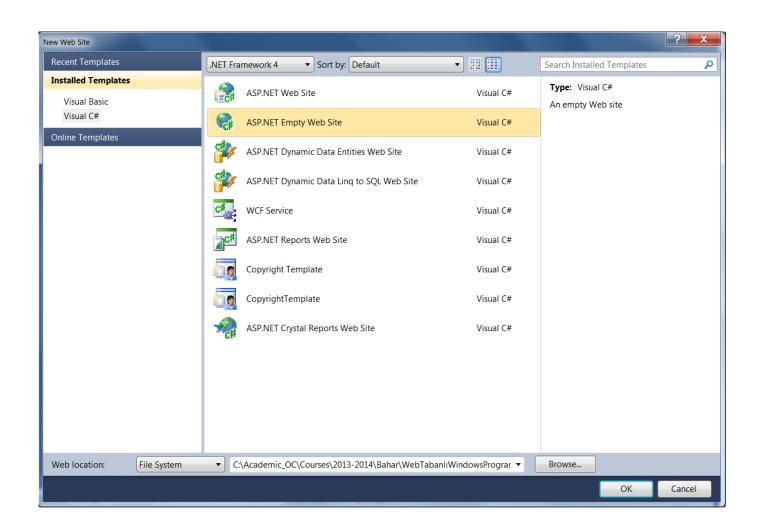
<asp:Button ID="Button1" runat="server" Text="Click Me" />

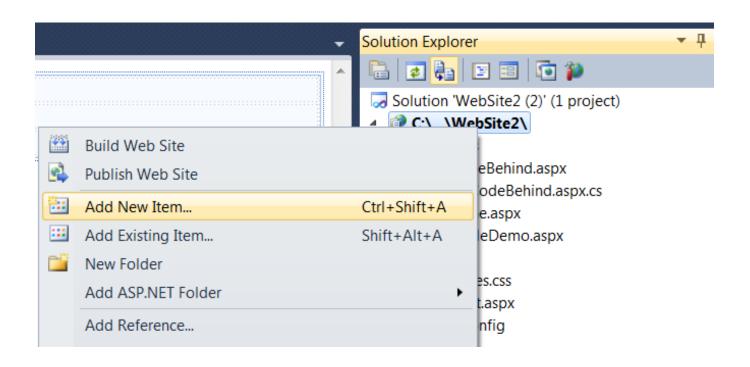
- Tag and attribute names are not necessarily in all lowercase.
- The code for the same button when rendered in the browser as XHTML:

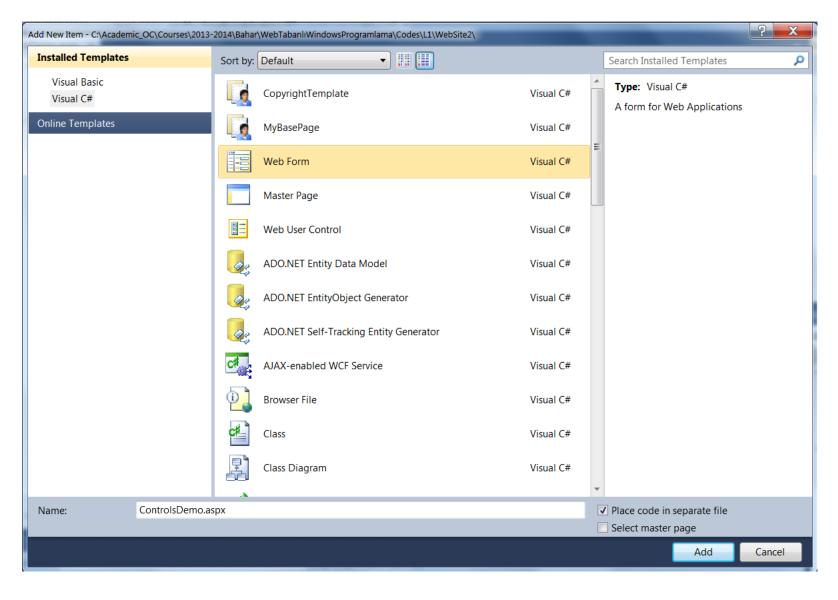
Create a Web Site

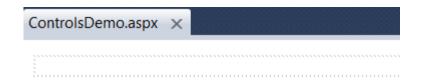


Create a Web Site

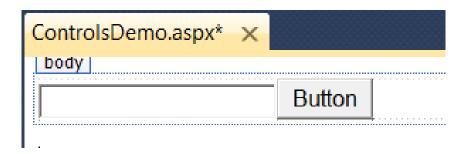


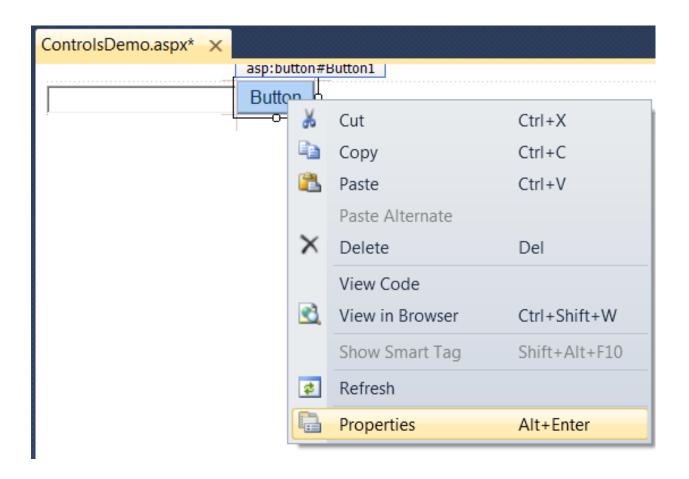


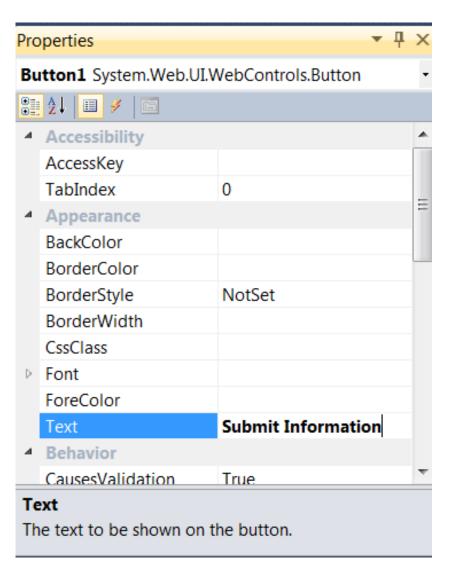


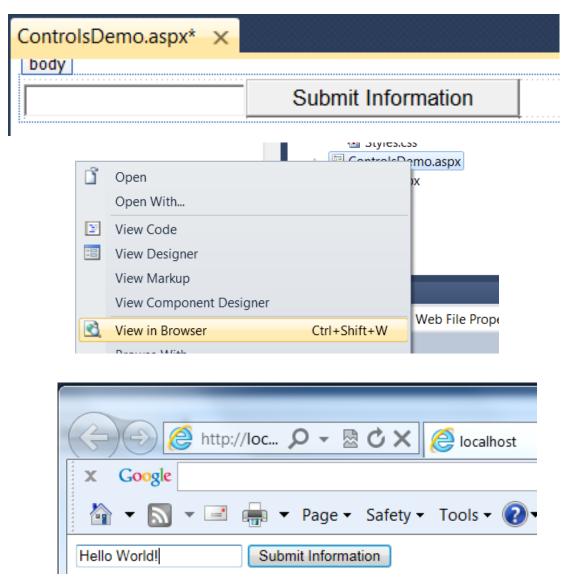


Drag a Textbox and a Button



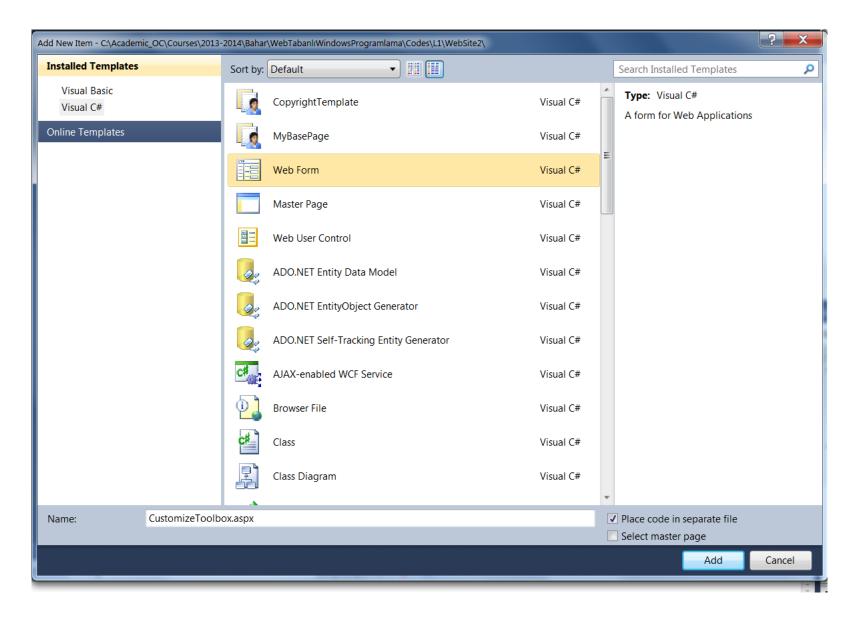


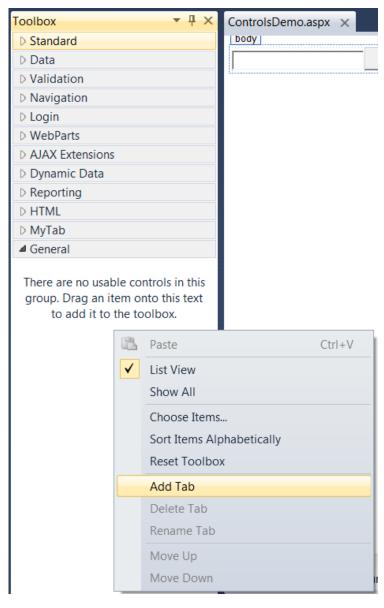




Submit Information Hello World! Back Forward Go to copied address Ctrl+Shift+L Save background as... Set as background Copy background Select all Paste All Accelerators Create shortcut Add to favorites... View source Encoding Print... Print preview... Refresh Export to Microsoft Excel Send page to Bluetooth Device... Properties 40. To fill initially empty items in a collect

```
<input name="TextBox1" type="text" value="Hello World!" id="TextBox1" />
<input type="submit" name="Button1" value="Submit Information" id="Button1" />
```



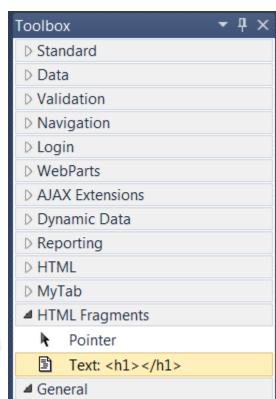


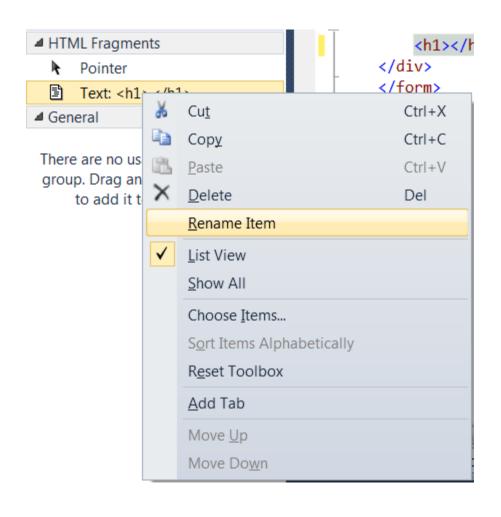


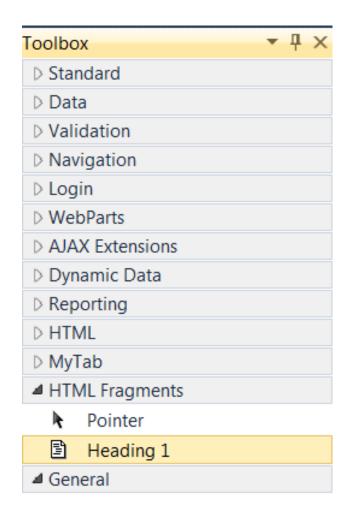
Highlight <h1></h1>

 Drag and drop the selection to the new Toolbox tab



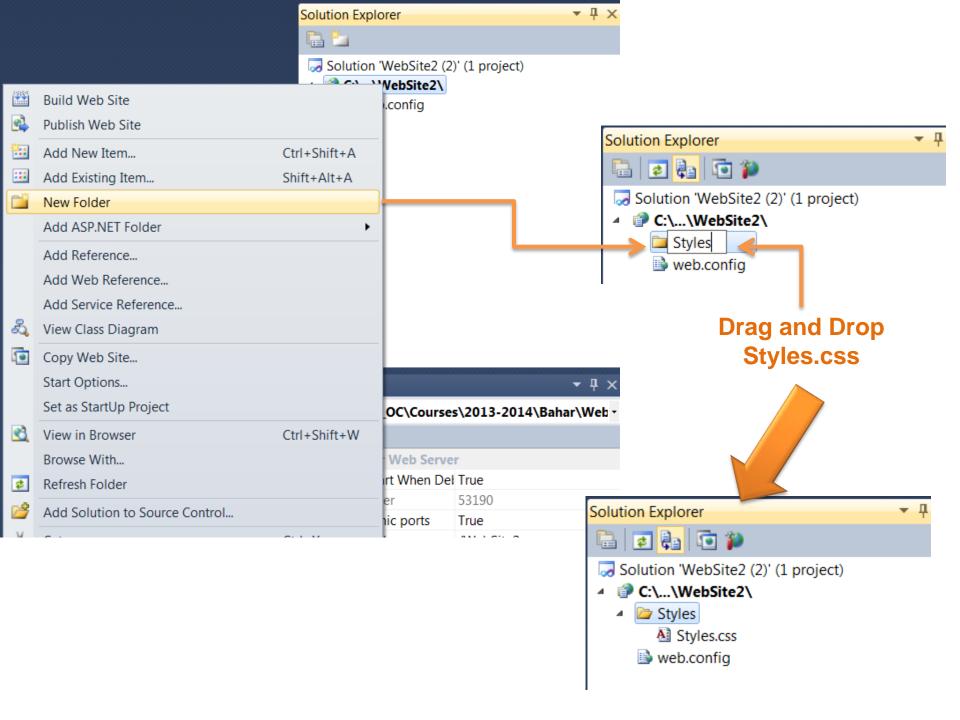






Adding Existing Files

- 1. Create a txt file on Desktop.
- 2. Rename the text file Styles.css. Make sure the .txt extension is replaced by .css.
- 3. Click the CSS file on the desktop and while holding down the mouse button, drag the file into the *Solution Explorer*. Make sure you drag the file into the Solution Explorer and not in other parts of VS, or the file won't be added.



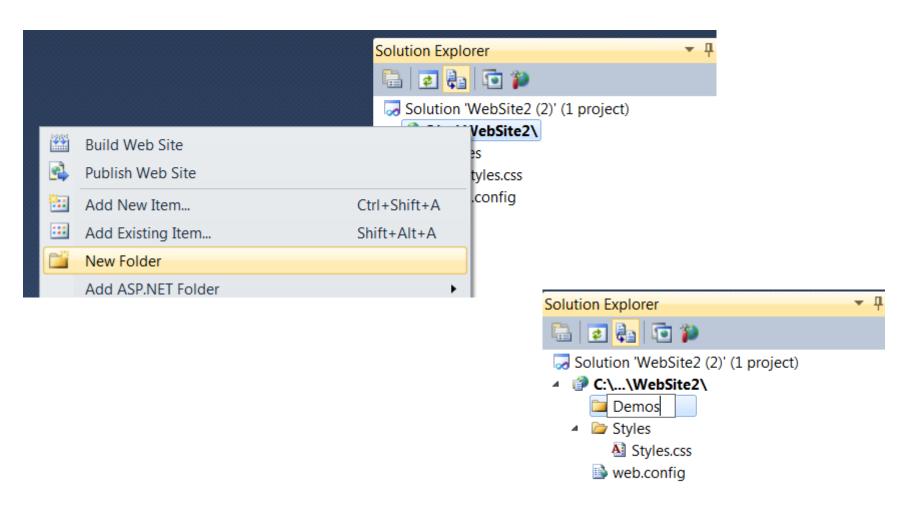
Code Behind vs. Inline Code

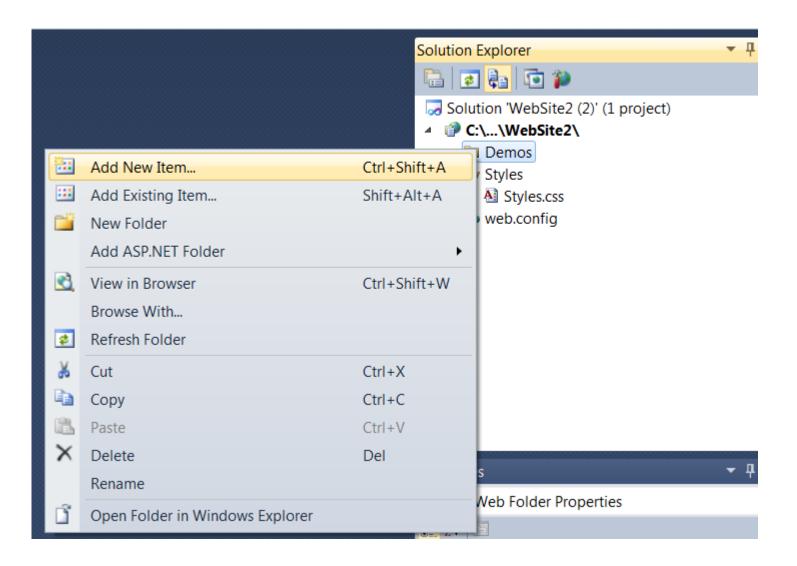
- Web Forms come in two flavors:
 - either as an .aspx file with a *Code Behind* file (a file named after the Web Form with an additional .vb or .cs extension)

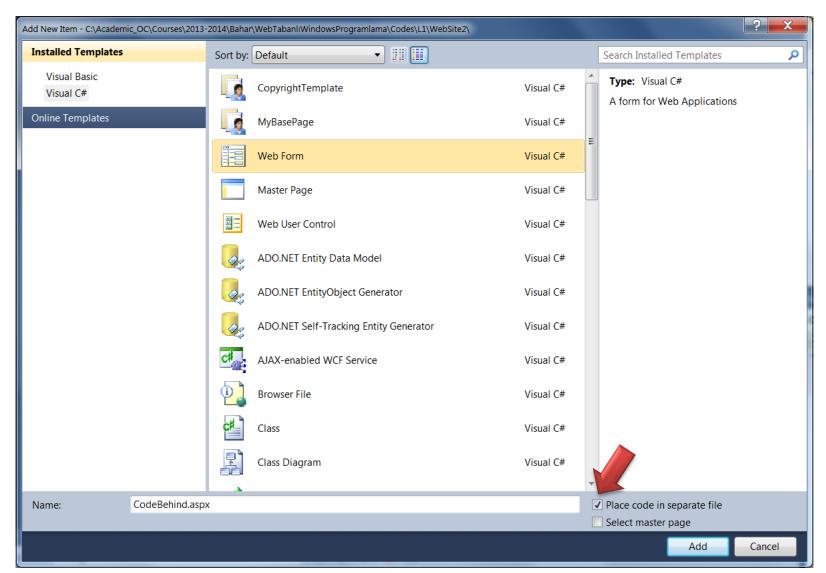
or

as .aspx files that have their code embedded,
 often referred to as Web Forms with *Inline Code*

Adding Web Forms with Code Behind







```
Demos/CodeBehind.aspx X
  Client Objects & Events
                                                                         (No Events)
    k%@ Page Language="C#" AutoEventWireup="true" CodeFile="CodeBehind.aspx.cs" Inherits="Demos CodeBehind" %>
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
   ⊟<html xmlns="http://www.w3.org/1999/xhtml">
   ⊨<head runat="server">
         <title></title>
    </head>
   Ė<body>
                                                         Source View
        <form id="form1" runat="server">
         <div>
        </div>
        </form>
    </body>
    </html>
```



Label

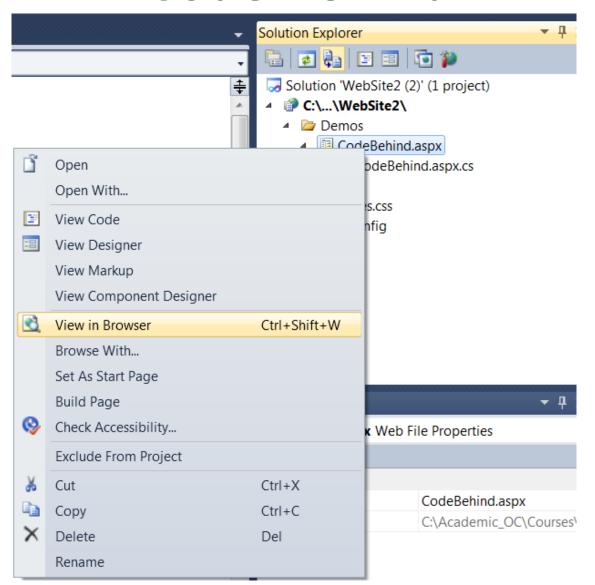
```
Demos/CodeBehind.aspx* ×
asp:label#Label1
Label
```

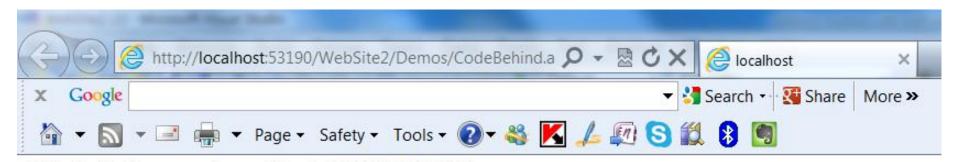
```
Demos/CodeBehind.aspx* ×
  Client Objects & Events
                                                                           (No Events)
    <%@ Page Language="C#" AutoEventWireup="true" CodeFile="CodeBehind.aspx.cs" Inherits="Demos CodeBehind" %>
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
   ⊟<html xmlns="http://www.w3.org/1999/xhtml">
   ⊢ <head runat="server">
         <title></title>
    </head>
   Ġ<body>
         <form id="form1" runat="server">
         <div>
             <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
         </div>
         </form>
     </body>
     </html>
```

Double-click in Design View

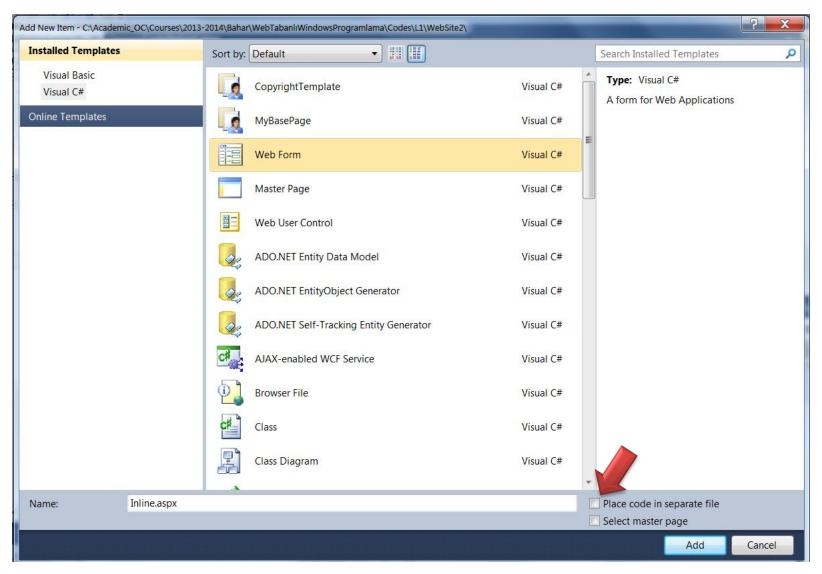
```
Demos/CodeBehind.aspx.cs X Demos/CodeBehind.aspx*
 😘 Demos CodeBehind
     1 ∃using System;
         using System.Collections.Generic;
         using System.Linq;
     4 using System.Web;
     5 using System.Web.UI;
         using System.Web.UI.WebControls;
        public partial class Demos_CodeBehind : System.Web.UI.Page
     9
    10
              protected void Page Load(object sender, EventArgs e)
    11
    12
    13
    14
```

```
public partial class Demos_CodeBehind : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        Label1.Text = "Hello World; The current date and time is: "+ DateTime.Now.ToString();
    }
}
```

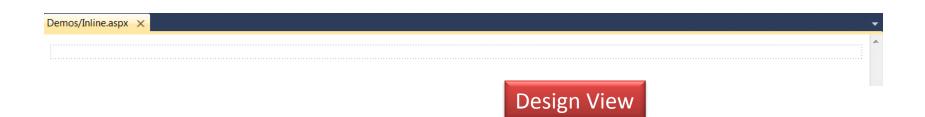




Hello World; The current date and time is: 02.03.2014 21:02:31



```
Demos/Inline.aspx X
  Server Objects & Events
                                                                         (No Events)
    <%@ Page Language="C#" %>
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
   □<script runat="server">
    </script>
   F<html xmlns="http://www.w3.org/1999/xhtml">
   ⊨<head runat="server">
        <title></title>
    </head>
   Ė<body>
                                                                            Source View
        <form id="form1" runat="server">
        <div>
        </div>
        </form>
    </body>
     </html>
```



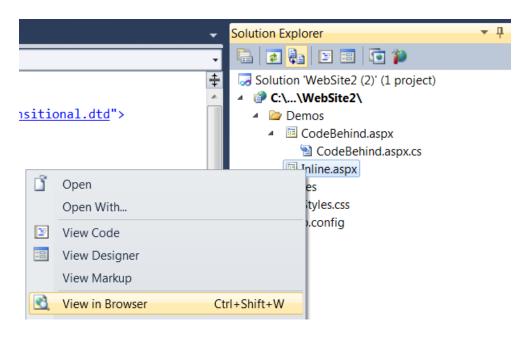
Label

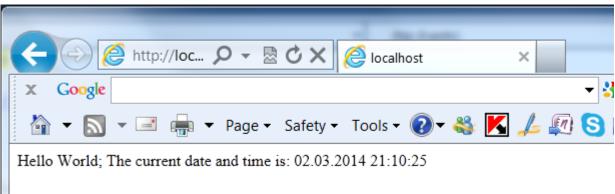
```
Demos/Inline.aspx* ×
asp:label#Label1
Label
```

Double-click the page

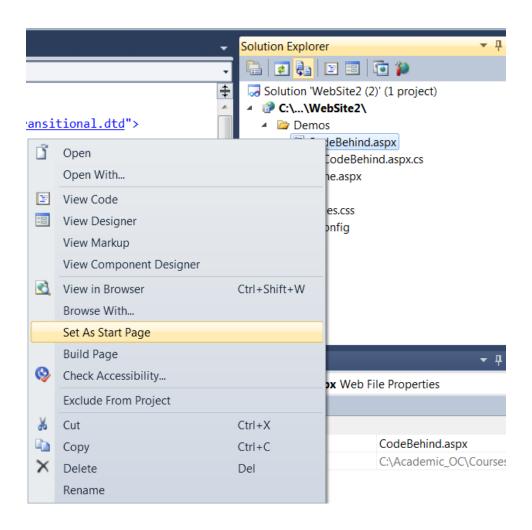
```
Demos/Inline.aspx* ×
  Server Objects & Events
                                                                    (No Events)
    <%@ Page Language="C#" %>
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
  ⊟<script runat="server">
        protected void Page Load(object sender, EventArgs e)
    </script>
  ⊨<head runat="server">
        <title></title>
    </head>
  <form id="form1" runat="server">
        <div>
           <asp:Label ID="Label1" runat="server" Text="Label"></asp:Label>
        </div>
        </form>
    </body>
    </html>
```

```
protected void Page_Load(object sender, EventArgs e)
{
    Label1.Text = "Hello World; The current date and time is: " + DateTime.Now.ToString();
}
</script>
```

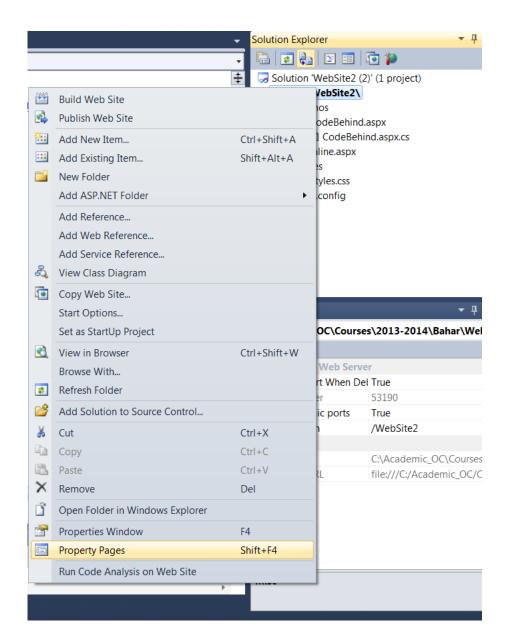




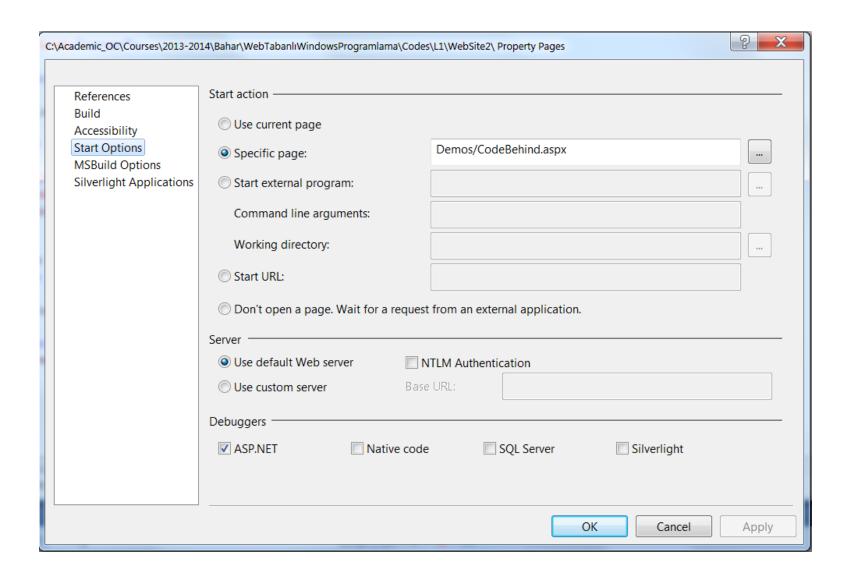
Start Page

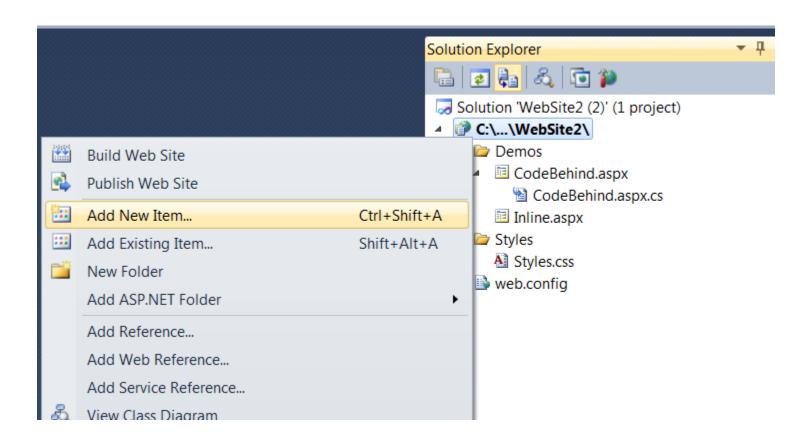


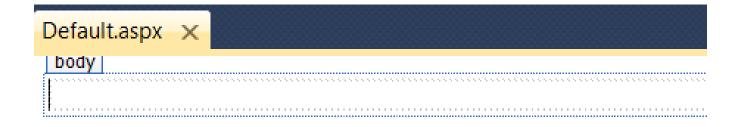
To control start page:

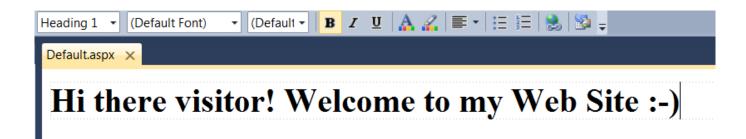


Start Page Options

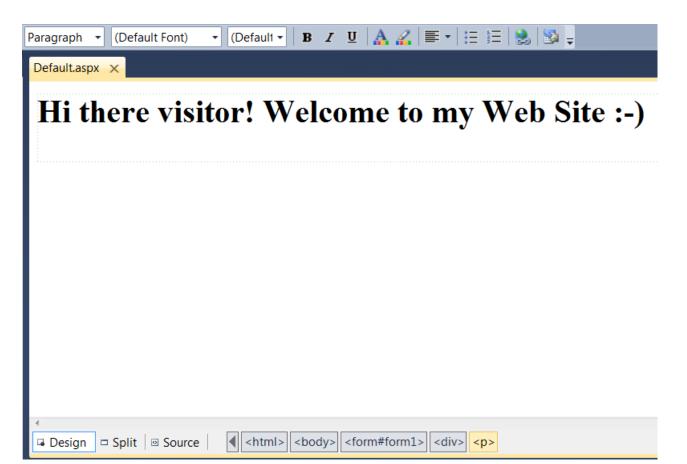








 Position your cursor at the end of the heading after the :-) and press Enter.



Default.aspx ×

Hi there visitor! Welcome to my Web Site :-)

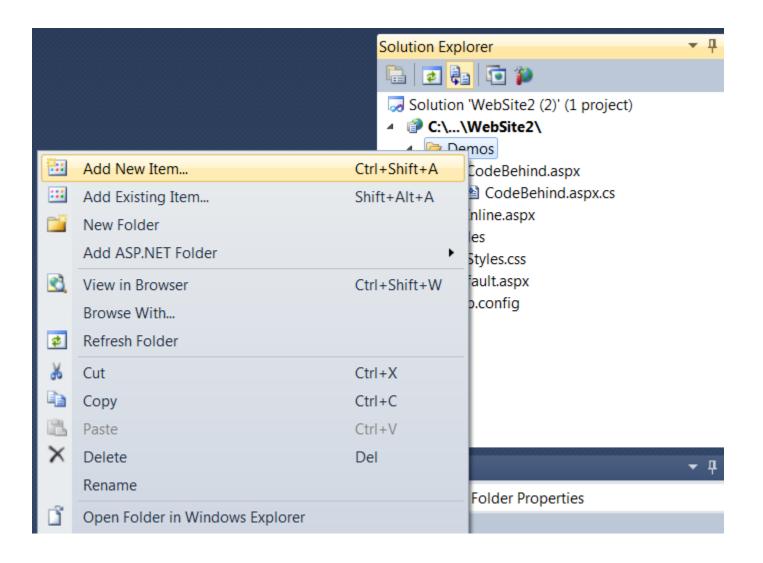
I'm glad that you are visiting my web site http://www.mywebsite.com

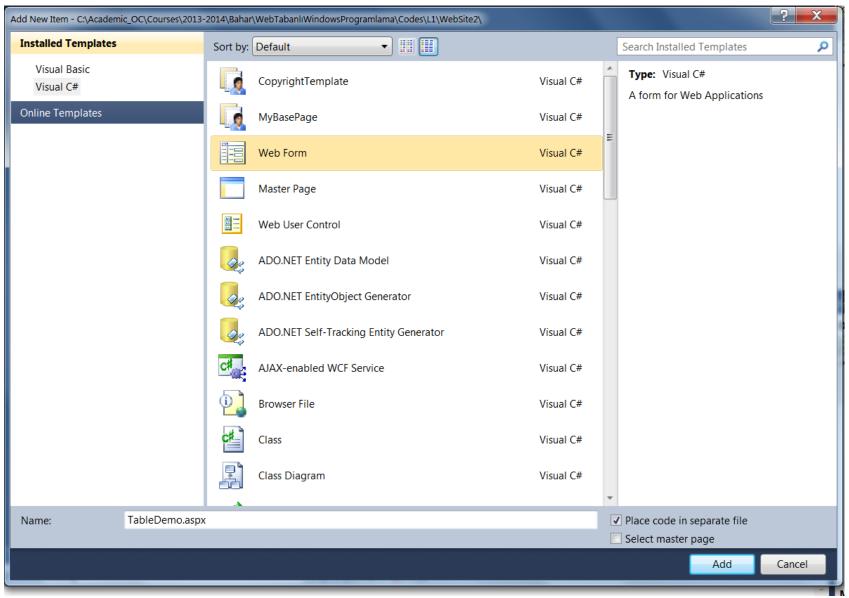
Feel free to have a look around.

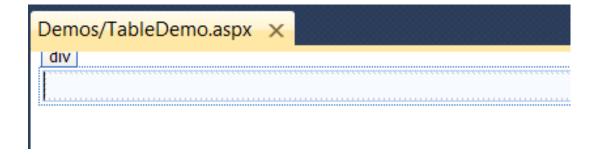
Hi there visitor! Welcome to my Web Site :-)

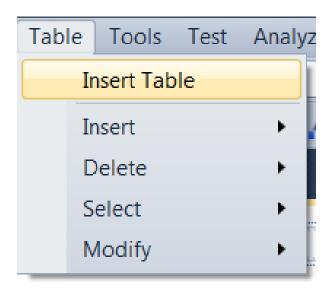
I'm glad that you are visiting my web site http://www.mywebsite.com

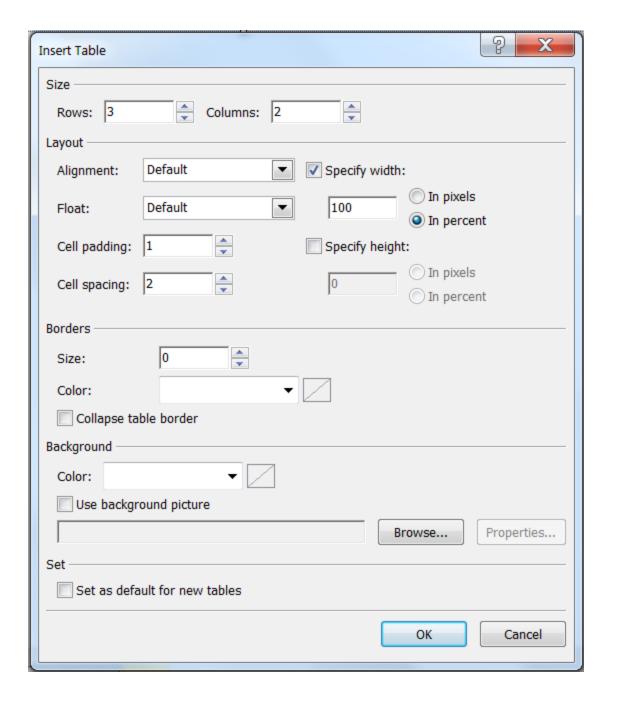
Feel free to have a look around.

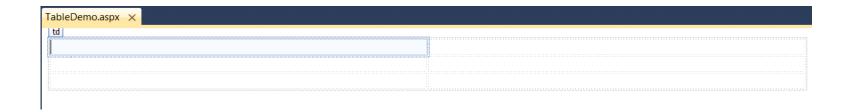


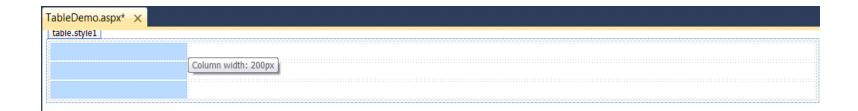


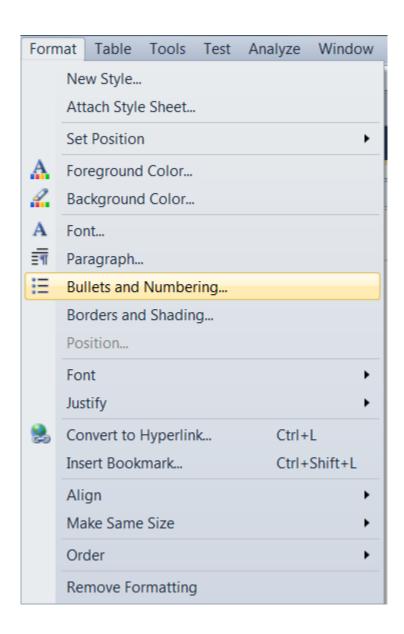


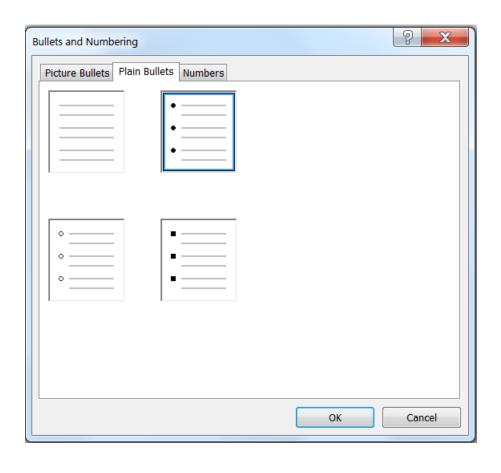












TableDemo.aspx ×	
My Favorite Musicians	Madonna U2 Marcus Miller
My Favorite Actors	Jeremy Irons Al Pacino Tom Hardy
My Favorite Films	Snatch A Good Year Bronson

Connecting Pages

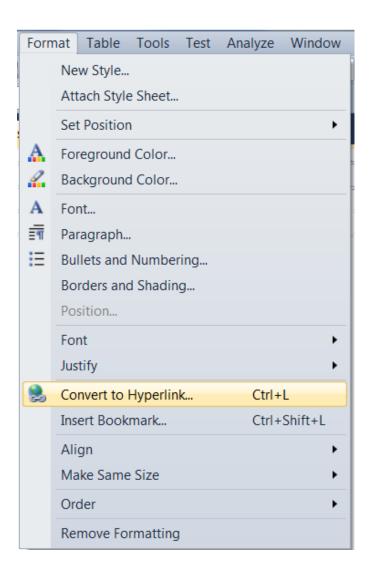
- There are a few ways to create links between pages, including:
 - The HTML <a> element
 - Using the <asp:HyperLink> control.
 - Programmatically through code.

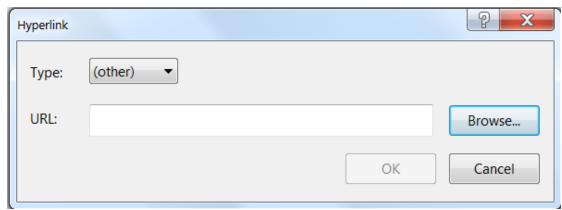
Add 4th row to the table.

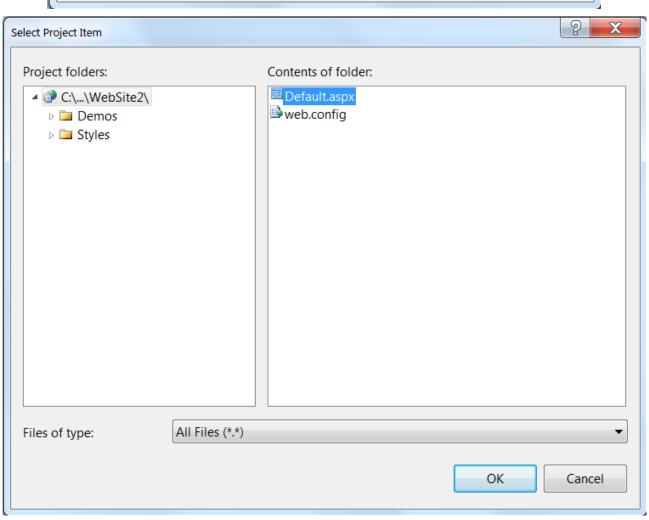
In the first cell type Link

In the second cell type Go to the Homepage

Highlight Go to the Homepage







• In Source View:

Go to Homepage

Add 5th row to the table.

In the first cell type Link to IMDB

In the second cell type IMDB

Highlight IMDB

IMDB

My Favorite Musicians

Madonna

• U2

Marcus Miller

My Favorite Actors

1. Jeremy Irons

2. Al Pacino

3. Tom Hardy

My Favorite Films

■ Snatch

A Good Year

■ Bronson

Link

Go to Homepage

Link to IMDB

IMDB