

User Controls

Asst. Prof. Dr. Özgü Can

User Control

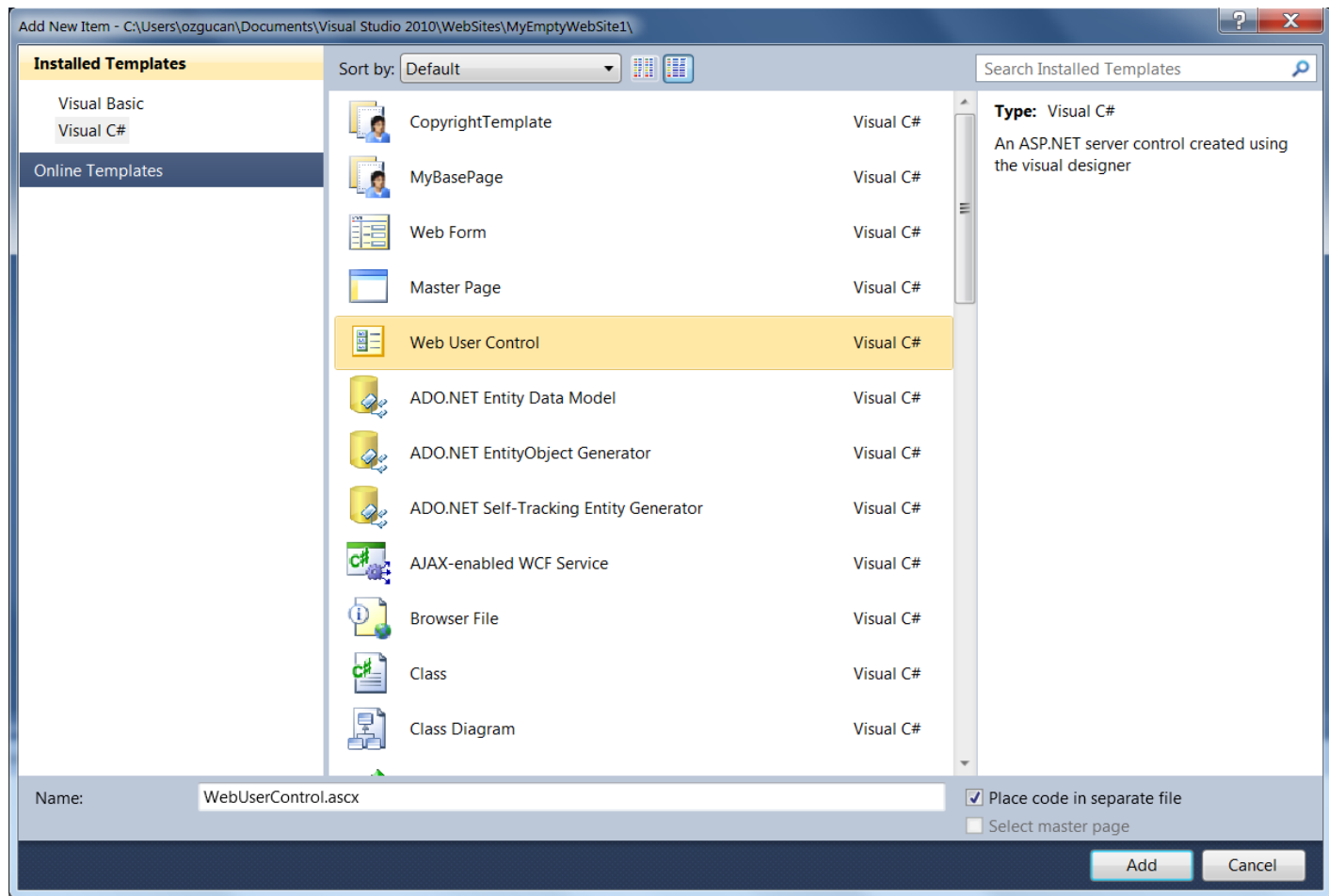
- Encapsulates markup, controls and code that you need repeatedly throughout the site.
- Looks like server controls.
 - Contain programming logic and presentation that you can **reuse in your pages**.
- You can **create reusable content**.
 - Content that should appear **only** on some **but not all pages**.

User Control

- **.ascx** extension
- Cannot be requested in the browser **directly**.
 - Add to a content or a master page or another user control.
- Can't drag existing ones from toolbox
 - You need to create your own user controls and add them to your ASPX pages.

Creating User Control

- Add New Item



Creating User Control

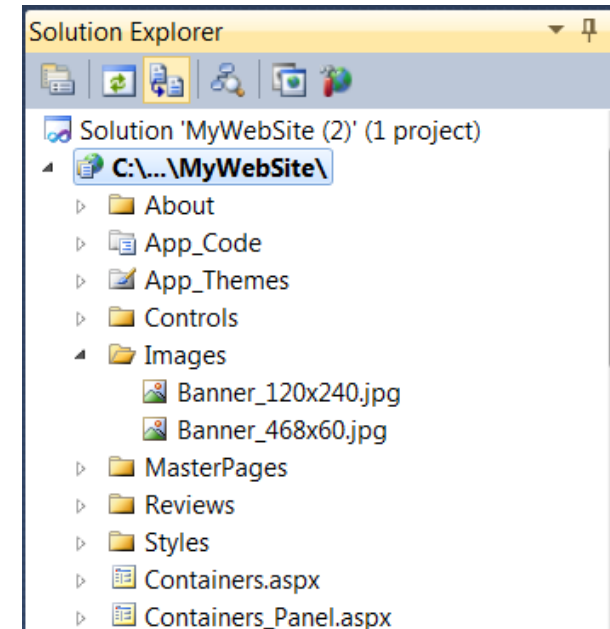
- Doesn't have an **@Page** directive
- **@Control** directive

```
<%@ Control Language="C#" AutoEventWireup="true" CodeFile="WebUserControl.ascx.cs" Inherits="WebUserControl" %>
```

Example

Creating User Control

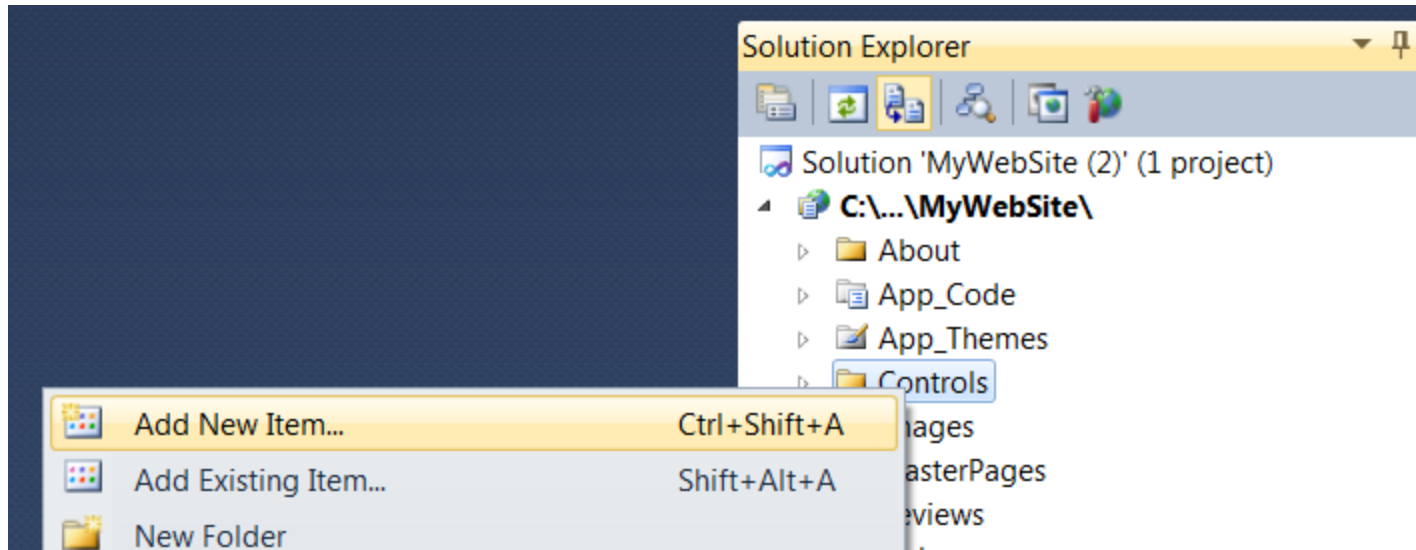
- Create a folder → **Controls**
- Create a folder → **Images**
- Drag 2 image file to **Images** folder
 - **Banner120x240 . jpg**
 - **Banner468x60 . jpg**



Example

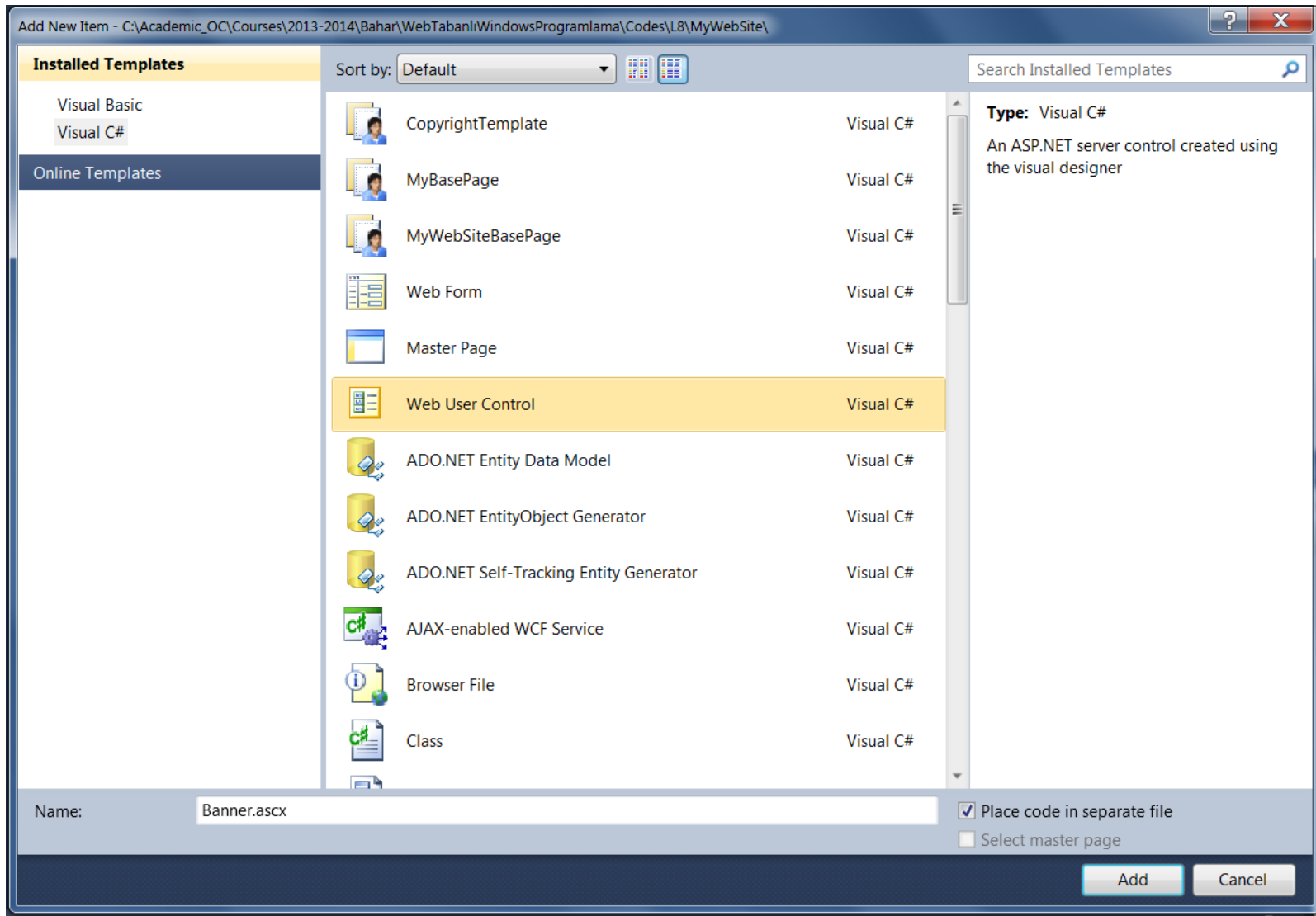
Creating User Control

- Right-click the **Controls** folder and **Add New Item**



Example

Creating User Control

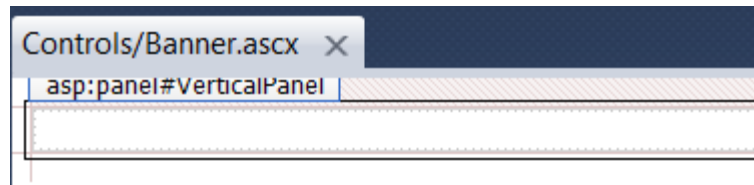


Example

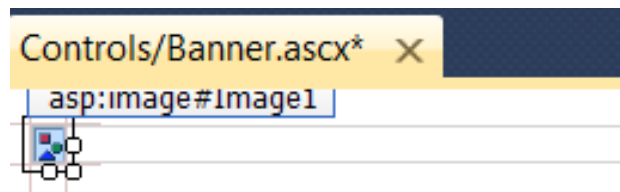
Creating User Control

- In Design View → Drag a **Panel**

– ID = **VerticalPanel**



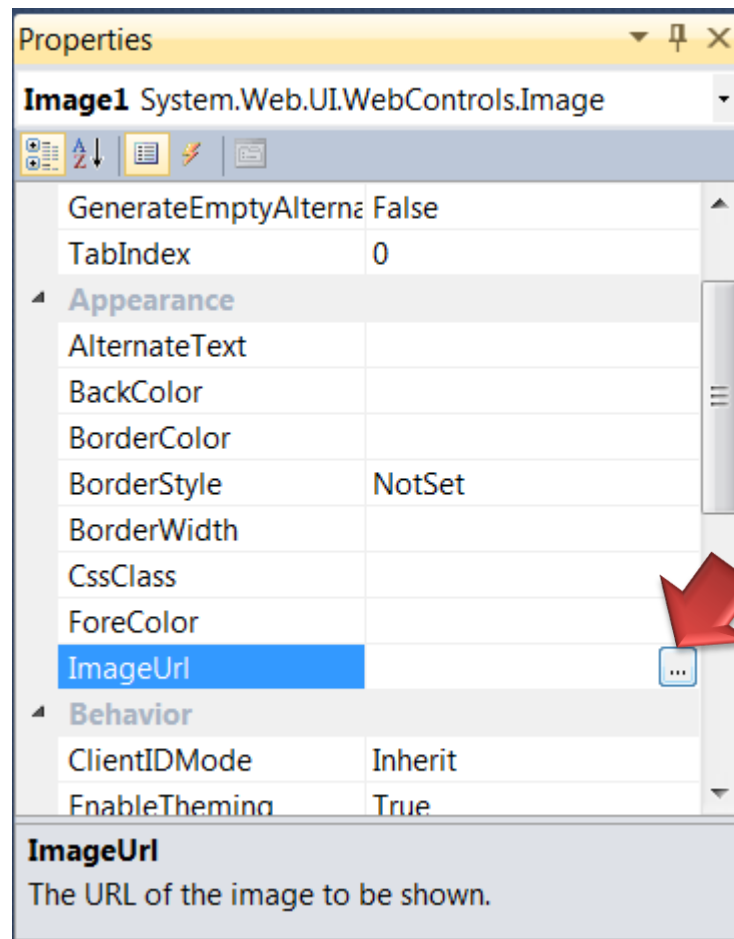
- Drag an **Image** control into the **Panel**.



Example

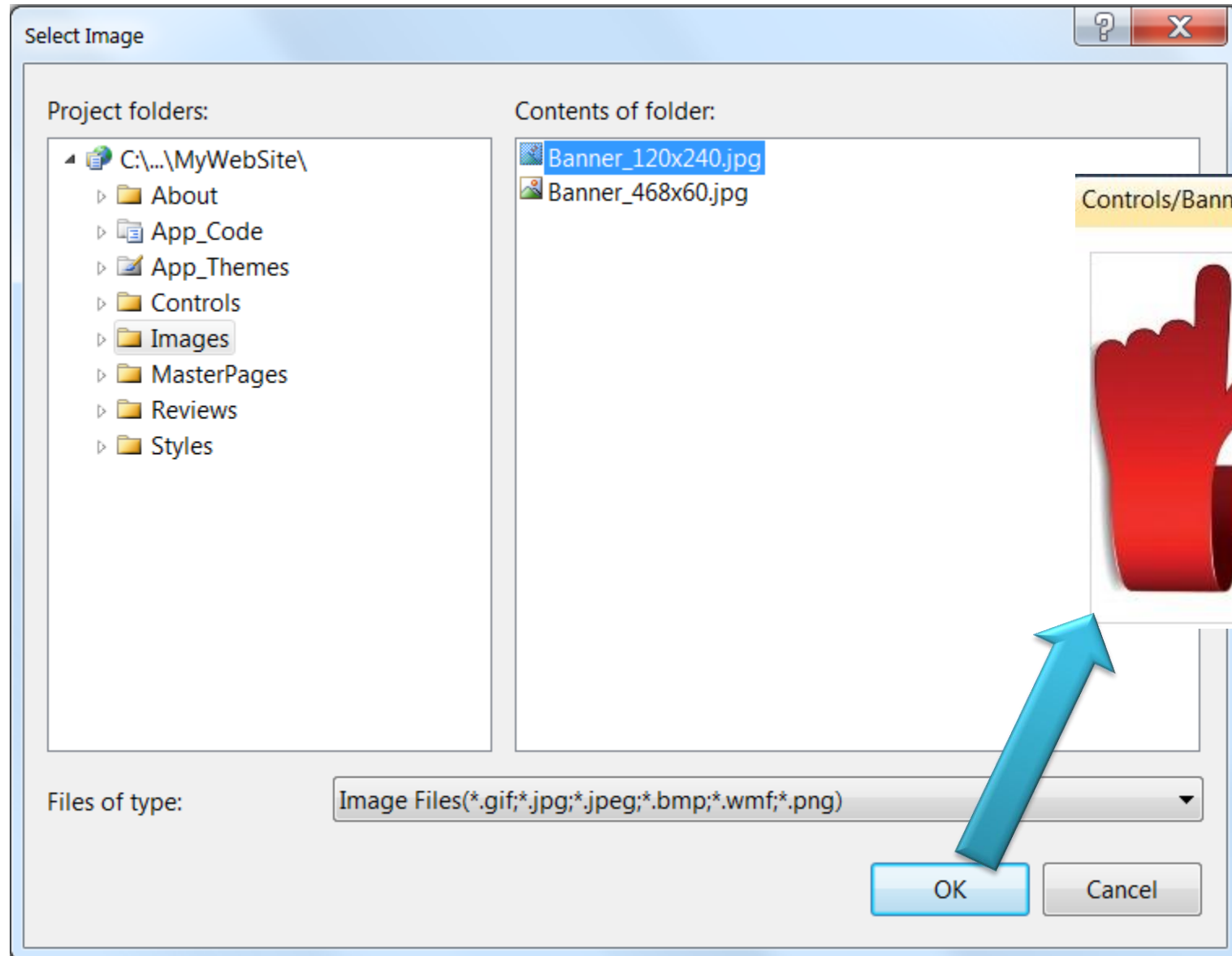
Creating User Control

- In Properties → Select **ImageUrl**



Example

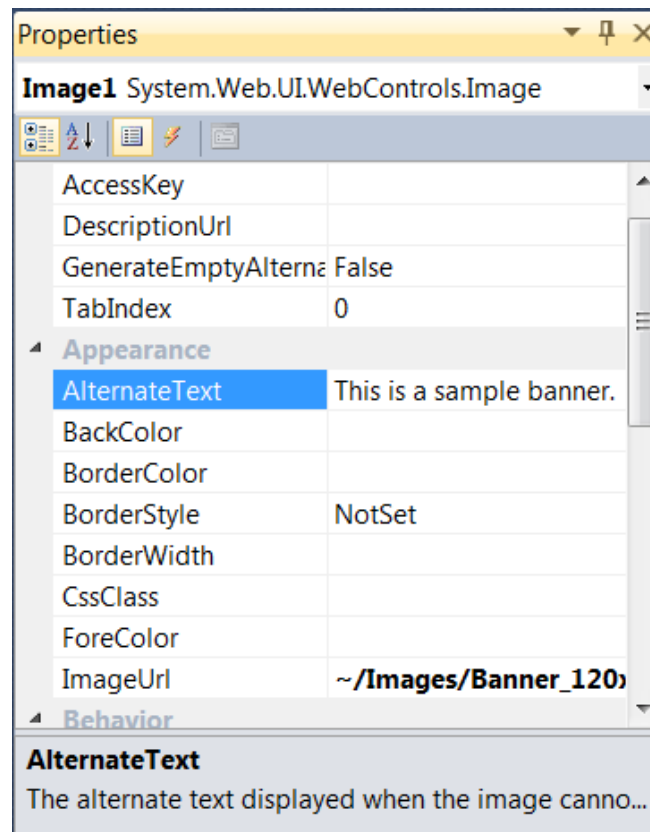
Creating User Control



Example

Creating User Control

- Properties:
 - **AlternateText = This is a sample banner.**



Example

Creating User Control

- In Source View:

```
<asp:Panel ID="VerticalPanel" runat="server">  
    <asp:Image ID="Image1" runat="server" AlternateText="This is a sample banner."  
        ImageUrl="~/Images/Banner_120x240.jpg" />  
</asp:Panel>
```



```
<asp:Panel ID="VerticalPanel" runat="server">  
    <a href="http://bilmuh.ege.edu.tr" target="_blank">  
        <asp:Image ID="Image1" runat="server" AlternateText="This is a sample banner."  
            ImageUrl="~/Images/Banner_120x240.jpg" />  
    </a>  
</asp:Panel>
```

Adding User Control

- Two steps:
 1. Register the control by adding **@Register** to the page or control
 2. Add the tags for the user control to the page and *optionally* set some attributes on it.

```
<%@ Register Src="ControlName.ascx" TagName="ControlName" TagPrefix="uc1" %>
```

Points to the user control
you want to use

The name for the tag that is
used in the control declaration
in the page

The prefix of the
TagName
that is used in the control
declaration

Adding User Control

- When the control is registered, add it to the page using **TagPrefix:TagName** construct.
- **@Register** directive:

```
<%@ Register Src="~/Controls/Banner.ascx" TagName="Banner" TagPrefix="uc1" %>
```

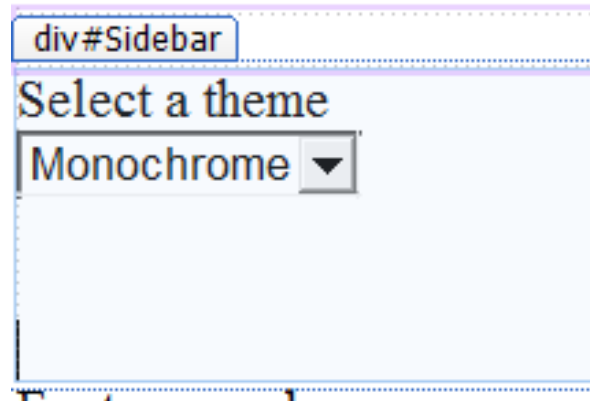
- Add the control to your page:

```
<uc1:Banner ID="Banner1" runat="server" />
```

Example

Adding User Control

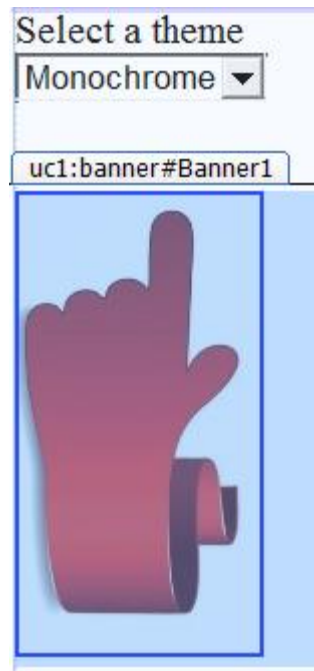
- Open **Frontend.master**
- Press ***Enter*** to create some room after the theme **DropDownList**



Example

Adding User Control

- Drag the file **Banner.ascx** from the **Controls** folder into the empty spot you just created.



Example

Adding User Control

- In Source View:
 - Locate the **@Register** directive at the top of the file.

```
<%@ Register src="../Controls/Banner.ascx" tagname="Banner" tagprefix="uc1" %>
```

- Change the two dots in the **src** attribute to a tilde (~):

```
<%@ Register src="~/Controls/Banner.ascx" tagname="Banner" tagprefix="uc1" %>
```

Example

Adding User Control

- Open **DarkGrey.css** & add:

```
img
{
    border:0
}
```

Example

Adding User Control

- View `Default.aspx` in browser



Site-Wide Registration

- If you have a control that you expect to use **quite often on separate content pages** in your site → You can **register the control globally** in the **`web.config`** file.
- This way it becomes available throughout the entire site, without the need to register it on every page.

Example

Registering User Control in the Web.config File

- Remove the **@Register** directive from **Frontend.master**
- Open **Web.config** file & add:

```
<pages theme="Monochrome">  
  <controls>  
    <add tagPrefix="Ege" tagName="Banner" src="~/Controls/Banner.ascx"/>  
  </controls>  
</pages>
```

Example

Registering User Control in the Web.config File

- Open **Frontend.master** in Source View
- In *Sidebar* area:

```
<uc1:Banner ID="Banner1" runat="server" />
```



```
<Ege:Banner ID="Banner1" runat="server" />
```

Example

Registering User Control in the Web . config File

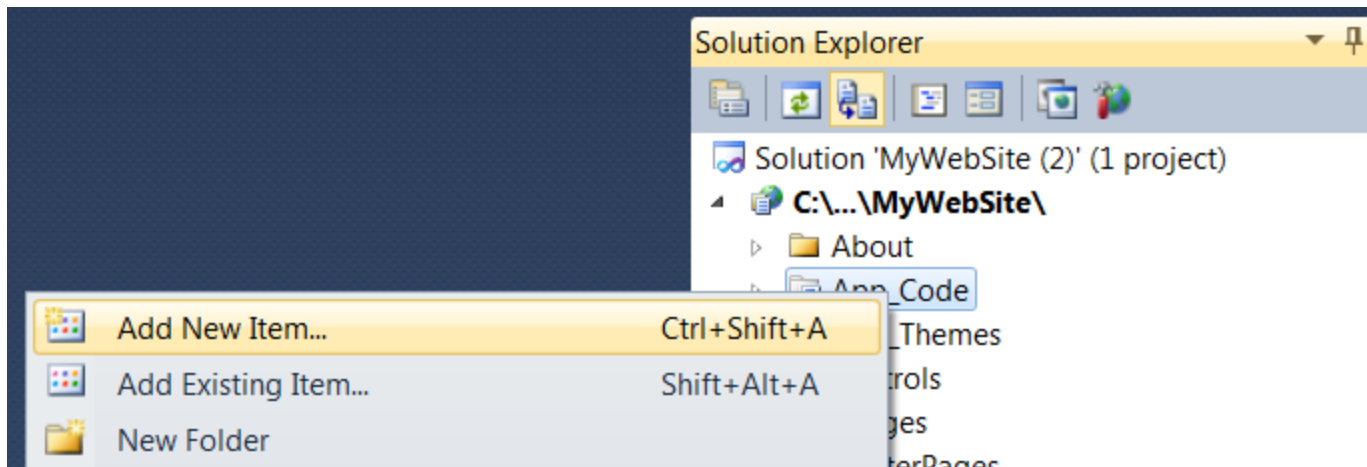
- View `Default.aspx` in browser



Example

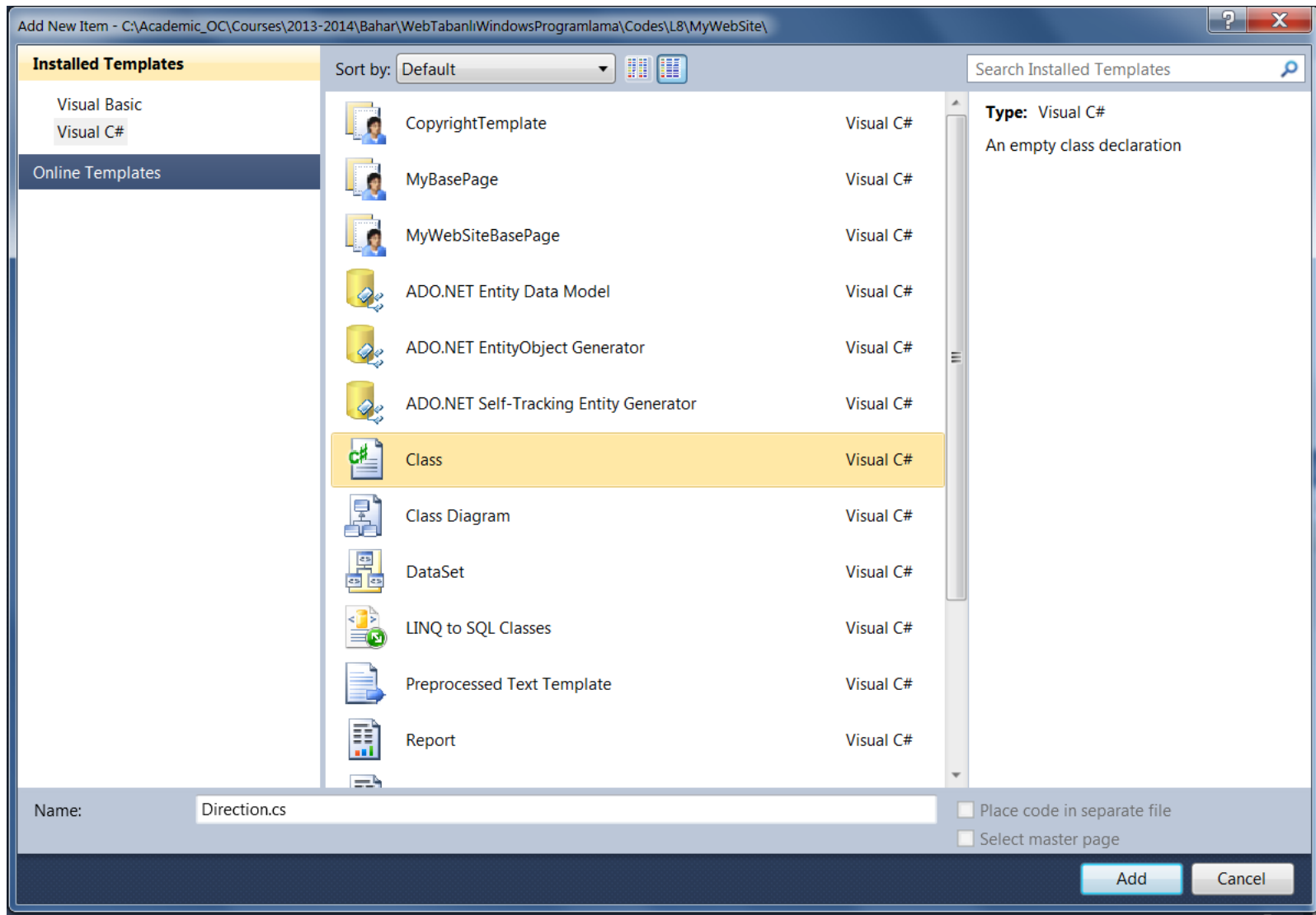
Smarter User Controls

- Right-click **App_Code** folder & **Add New Item**



Example

Smarter User Controls



Example

Smarter User Controls

- Clear the file contents & add:

```
public enum Direction
{
    Horizontal,
    Vertical
}
```

Example

Smarter User Controls

- Open **Banner.ascx.cs**
- Enter **prop** & press *Tab* twice

```
public partial class Controls_Banner : System.Web.UI.UserControl  
{
```

prop

CssClassPropertyAttribute
DataKeyPropertyAttribute
IDReferencePropertyAttribute
PagePropertiesChangingEventArgs
prop
propa
propdp
PropertyConverter
PropertyEntry

, EventArgs e)

prop

Code snippet for an automatically implemented property
Language Version: C# 3.0 or higher

Example

Smarter User Controls

```
public int MyProperty { get; set; }
```

```
protected void Page_Load(object sender, EventArgs e)  
{  
  
}
```



```
public Direction DisplayDirection { get; set; }
```

```
protected void Page_Load(object sender, EventArgs e)  
{  
  
}
```

Example

Smarter User Controls

- View **Banner.ascx** in Source View
- Copy the entire **<asp:Panel>** and paste it right below it.

```
<asp:Panel ID="VerticalPanel" runat="server">
    <a href="http://bilmuh.ege.edu.tr" target="_blank">
        <asp:Image ID="Image1" runat="server" AlternateText="This is a sample banner."
            ImageUrl="~/Images/Banner_120x240.jpg" />
    </a>
</asp:Panel>
<asp:Panel ID="HorizontalPanel" runat="server">
    <a href="http://bilmuh.ege.edu.tr" target="_blank">
        <asp:Image ID="Image2" runat="server" AlternateText="This is a sample banner."
            ImageUrl="~/Images/Banner_468x60.jpg" />
    </a>
</asp:Panel>
```

Example

Smarter User Controls

- Open **Banner.ascx.cs**

```
protected void Page_Load(object sender, EventArgs e)
{
    HorizontalPanel.Visible = false;
    VerticalPanel.Visible = false;

    switch (DisplayDirection)
    {
        case Direction.Horizontal:
            HorizontalPanel.Visible = true;
            break;
        case Direction.Vertical:
            VerticalPanel.Visible = true;
            break;
    }
}
```

Example

Smarter User Controls

- Open **Frontend.master**

```
<Ege:Banner ID="Banner1" runat="server" />
```



```
<Ege:Banner ID="Banner1" runat="server" DisplayDirection="Horizontal" />
```


Example

Smarter User Controls

- View `Default.aspx` in browser



Example

Smarter User Controls

- Open **Frontend.master**

```
<Ege:Banner ID="Banner1" runat="server" DisplayDirection="Horizontal" />
```



```
<Ege:Banner ID="Banner1" runat="server" DisplayDirection="Vertical" />
```

Example

Smarter User Controls

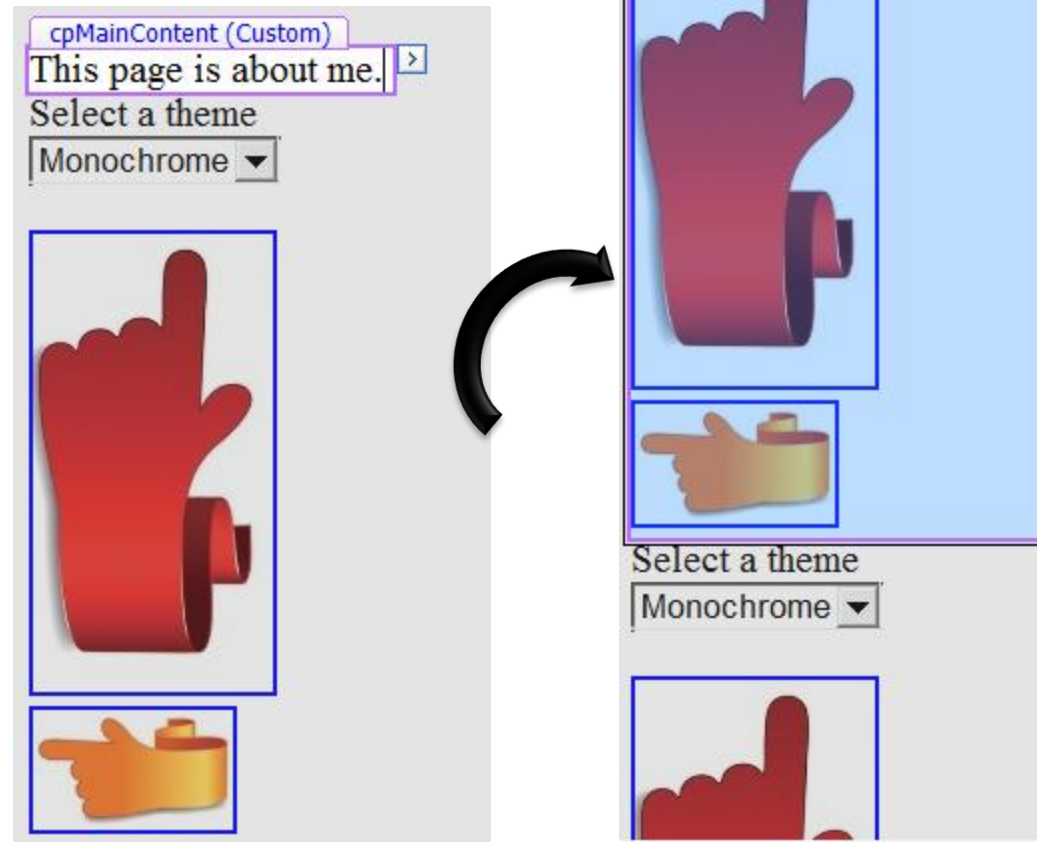
- Open **AboutMe.aspx**
- Add some text

```
<asp:Content ID="Content1" ContentPlaceHolderID="head" Runat="Server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="cpMainContent" Runat="Server">
  This page is about me.
</asp:Content>
```

Example

Smarter User Controls

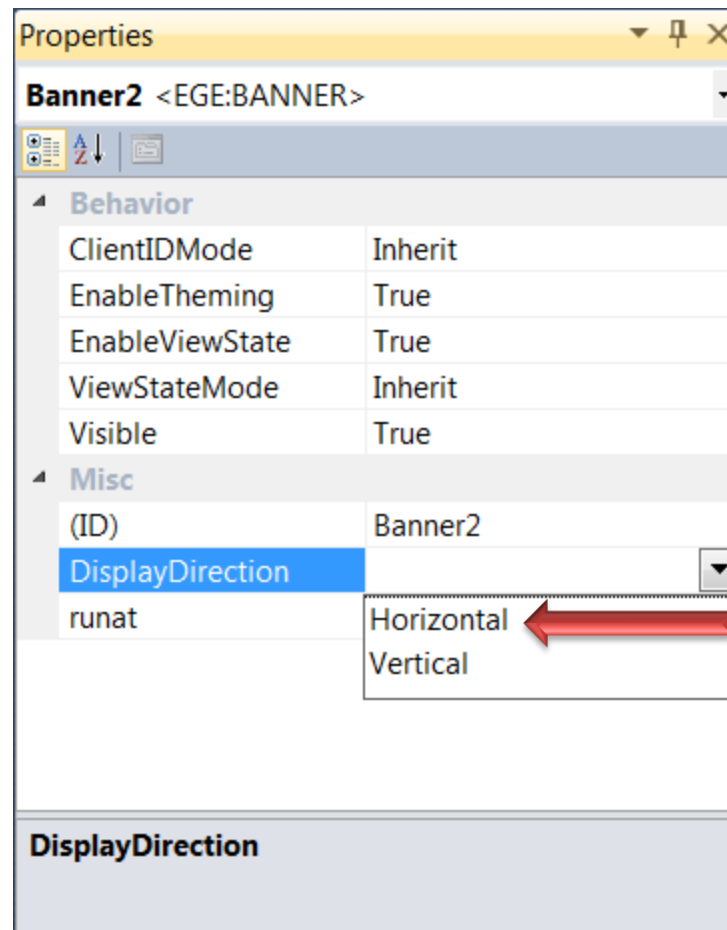
- In Design View of **AboutMe.aspx**
- After the text drop the **Banner.ascx** file



Example

Smarter User Controls

- Select **Banner2** control



Example

Smarter User Controls

- View **AboutMe.aspx** in browser



[Home](#)

[Home](#) > [About](#) > [About Me](#)

Select a theme

[Reviews](#)

[By Genre](#)
[All Reviews](#)

This page is about me.

DarkGrey 

[About](#)

[Contact](#)
[About Me](#)



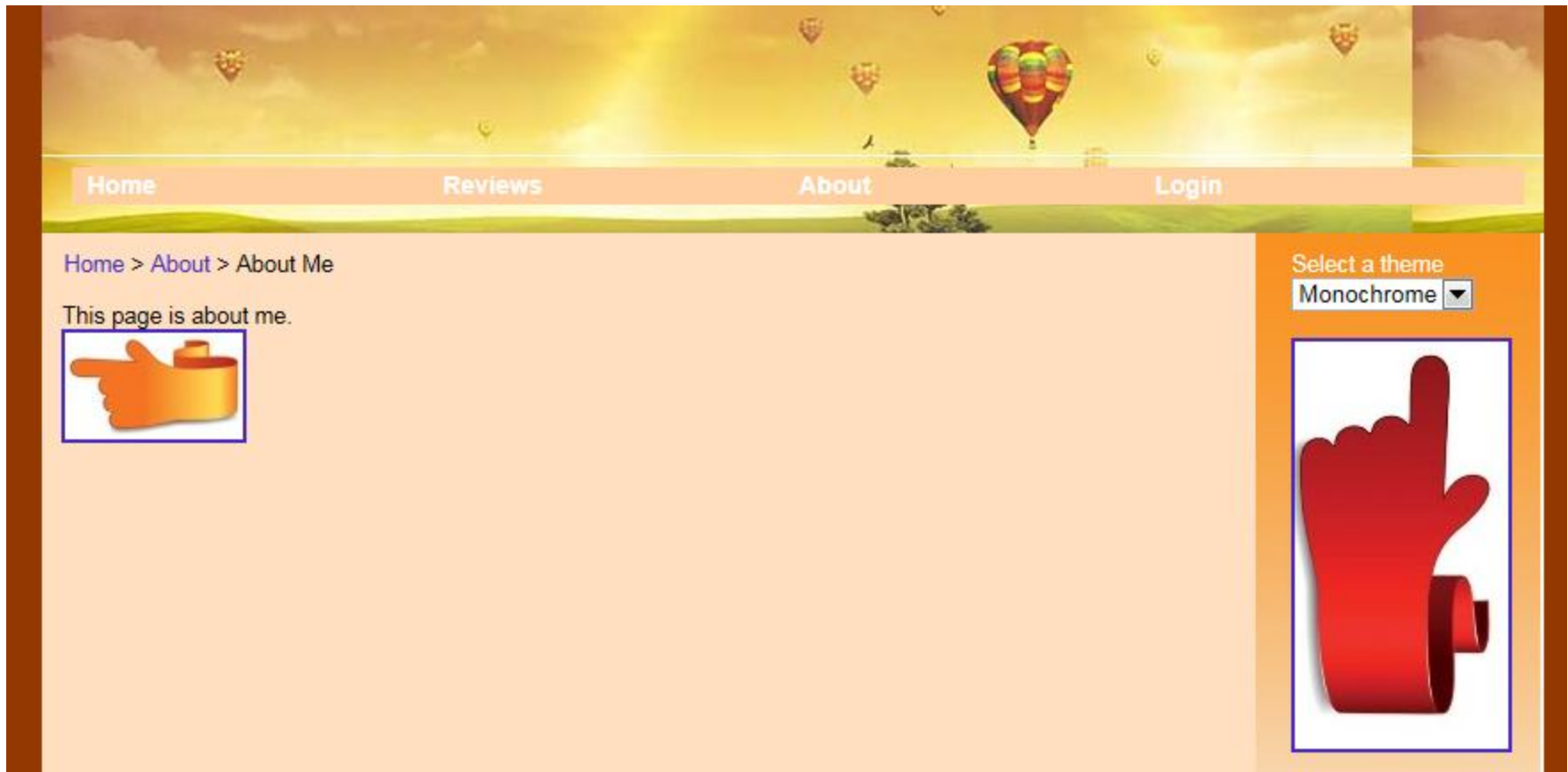
[Login](#)



Example

Smarter User Controls

- View **AboutMe.aspx** in browser



Example

NavigateUrl

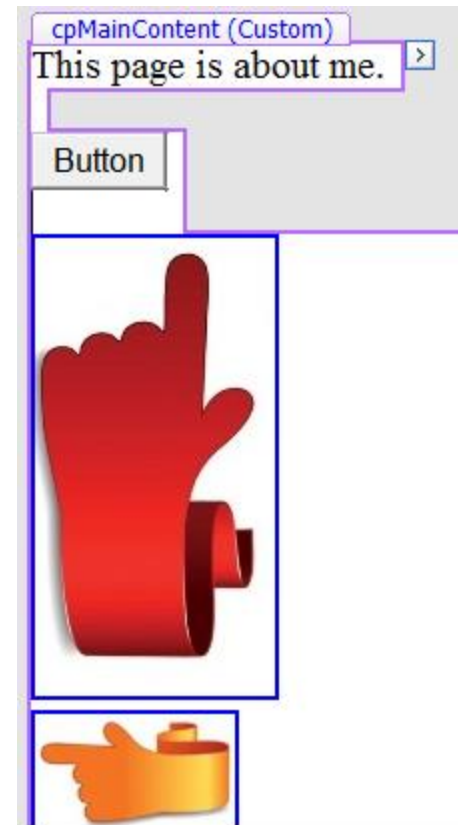
- Open **AboutMe.aspx.cs** & add

```
protected void Page_Load(object sender, EventArgs e)
{
    if (!Page.IsPostBack)
    {
        Banner2.DisplayDirection = Direction.Vertical;
    }
}
```


Example

NavigateUrl

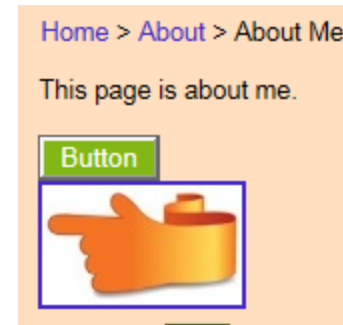
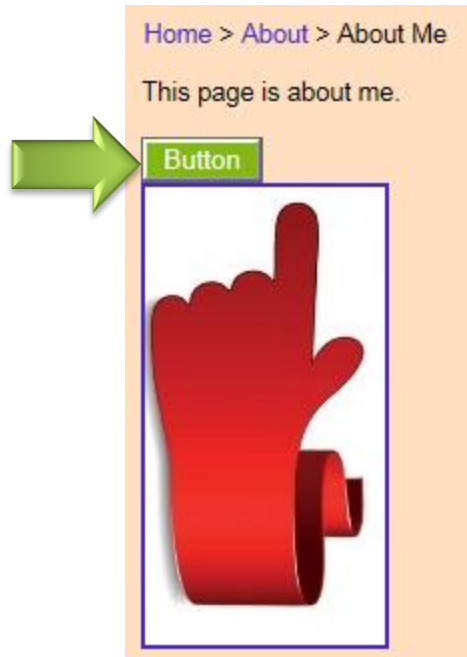
- In Design View → Add a **Button** on top of the **Banner.ascx** control.



Example

NavigateUrl

- View **AboutMe.aspx** in browser.



Example

NavigateUrl

- Open **Banner.ascx.cs** & add


```
public string NavigateUrl
{
    get
    {
        object _navigateUrl = ViewState["NavigateUrl"];
        if (_navigateUrl != null)
        {
            return (string)_navigateUrl;
        }
        else
        {
            return "http://bilmuh.ege.edu.tr"; //Return a default value
        }
    }
    set
    {
        ViewState["NavigateUrl"] = value;
    }
}
```

Example

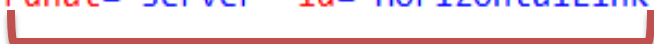
NavigateUrl

- In Source View of **Banner.ascx**
- Add **runat="server"** and **id** for both links.

```
<a href="http://bilmuh.ege.edu.tr" target="_blank" runat="server" id="VerticalLink">
```



```
<a href="http://bilmuh.ege.edu.tr" target="_blank" runat="server" id="HorizontalLink">
```





Example

NavigateUrl

- Open **Banner.ascx.cs** & modify the **Page_Load**

```
protected void Page_Load(object sender, EventArgs e)
{
    HorizontalPanel.Visible = false;
    VerticalPanel.Visible = false;

    switch (DisplayDirection)
    {
        case Direction.Horizontal:
            HorizontalPanel.Visible = true;
             HorizontalLink.HRef = NavigateUrl;
            break;
        case Direction.Vertical:
            VerticalPanel.Visible = true;
             VerticalLink.HRef = NavigateUrl;
            break;
    }
}
```

Example

NavigateUrl

- Open **AboutMe.aspx.cs** & modify

```
public partial class About_Default : BasePage
{
    protected void Page_Load(object sender, EventArgs e)
    {
        if (!Page.IsPostBack)
        {
            Banner2.NavigateUrl="http://www.ege.edu.tr";
        }
    }
}
```

Example

NavigateUrl

- View **AboutMe.aspx** in browser



Güncel

2013-2014 Staj Hareketliliği İletişim
Fakültesi Seçim Sonuçları

EUHADYEK proje Başvurusu

2013-2014 Staj Hareketliliği Seçim
Sonuçları

Ege Üniversitesi Erasmus+ Programı
Öğrenci Öğrenim Hareketliliği Takvimi

View State

- Please read:

<http://msdn.microsoft.com/en-us/library/ms972976.aspx>