Themes & Skins

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Themes

- A theme is a collection of files that define the look of a page.
 - Typically includes skin files, CSS files, and images.

Define themes in App_Themes folder.

Types of Themes

Two different properties to set a theme:

- Theme

 Applied <u>late</u> in the page's life cycle, effectively overriding any customization you may have for individual controls.

- StyleSheetTheme

- Applied very <u>early</u> in the page's life cycle, shortly after the page instance has been created.
- An individual page can override the settings from the theme by applying inline attributes on the controls.

Types of Themes

- If you want to supply <u>default settings</u> for your controls → Use <u>StyleSheetTheme</u>
 - Can be overriden at the page level
- If you want your controls <u>look the way you</u> defined them in the theme → Use Theme
 - Cannot be overriden anymore and overwrite any customizations
 - EnableTheming=False → Disable theming for a control

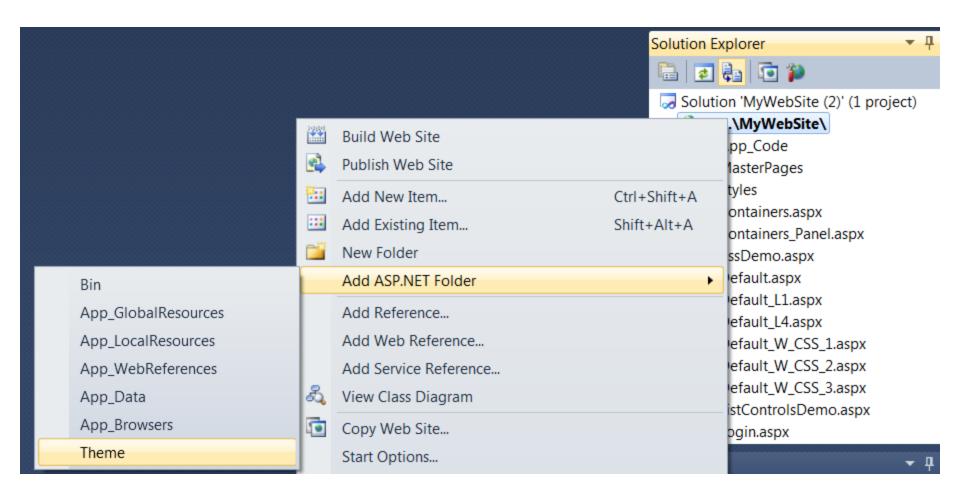
Applying Themes

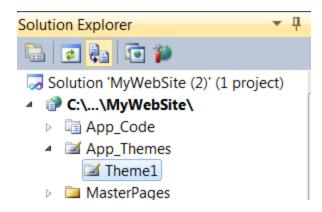
1. At the page level \rightarrow **Page** directive

2. At the site level \rightarrow web.config file

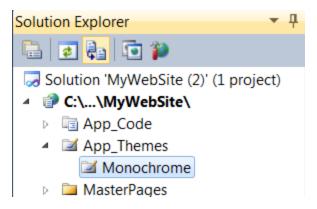
3. Programmatically

Add App_Themes folder

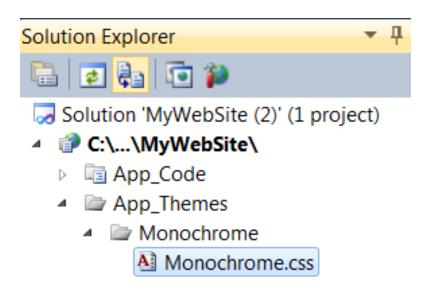




Type Monochrome as theme name



- From the Styles folder, move the Styles.css
 file into this new Monochrome folder.
- Rename it \rightarrow Monochrome.css



- Open master page.
- In Source View

 Remove the link> element in the <head> section of the master page from the code.

• Open the web.config file

View Default.aspx in browser

Menu goes here.

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

Sidebar goes here.

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

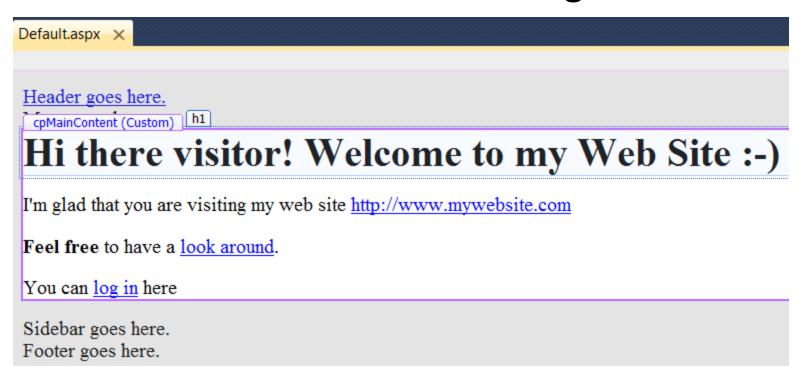
Feel free to have a look around.

You can log in here

Footer goes here.

View source in browser

Go back to Visual Studio in Design View



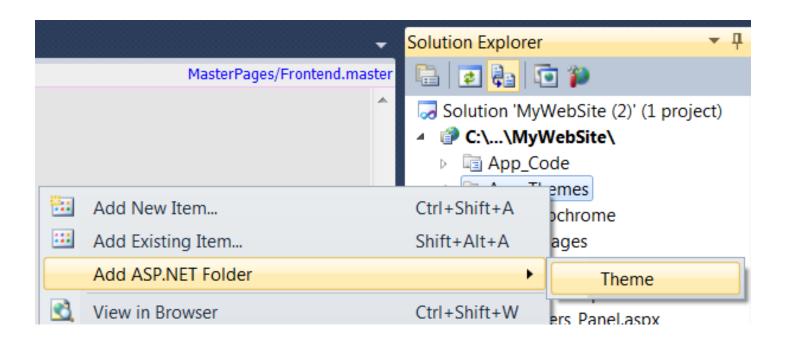
Visual Studio does not display the theme.

- Open web.config file
- To enable design-time support:

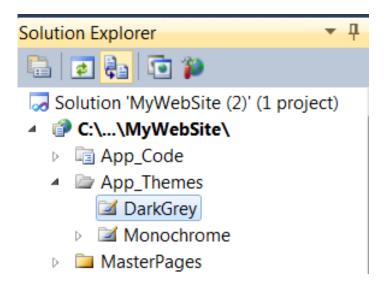
In Design View:



Add new folder to App_Themes folder

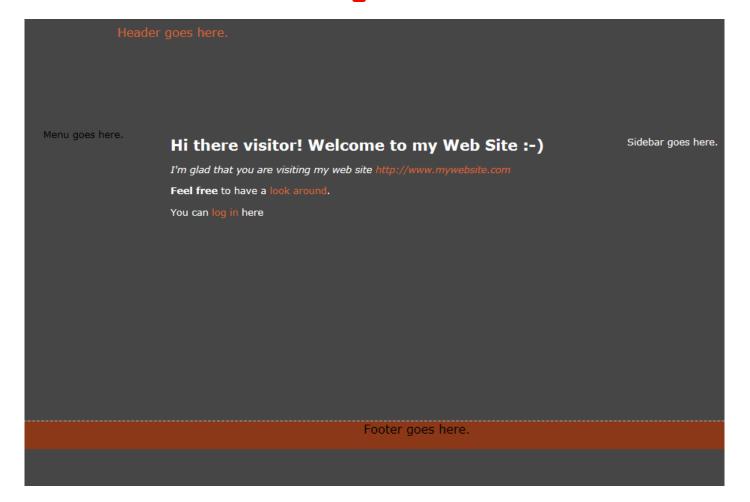


• Rename it → DarkGrey



- Add DarkGrey.css in to DarkGrey folder
- Open the web.config file

View Default.aspx in browser



Extending Themes

- A theme can also contain images.
- To refer to the MenuBackground.jpg file in the Images folder of the Monochrome theme, you can add the following CSS to Monochrome.css:

```
#MenuWrapper
{
   background-image: url(Images/MenuBackground.jpg);
}
```

Extending Themes

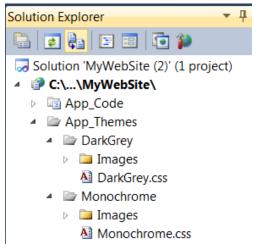
 If you wanted to refer to an image in the Images folder in the root of the site, you would use this CSS:

```
background-image: url(/Images/MenuBackground.jpg);

Root of the site
```

Example Adding Images to the Theme

- In Windows Exolorer, select the Images folder and Monochrome.css and drag into the Monochrome folder in Visual Studio.
- In Windows Exolorer, select the Images folder and DarkGrey.css and drag into the DarkGrey folder in Visual Studio.

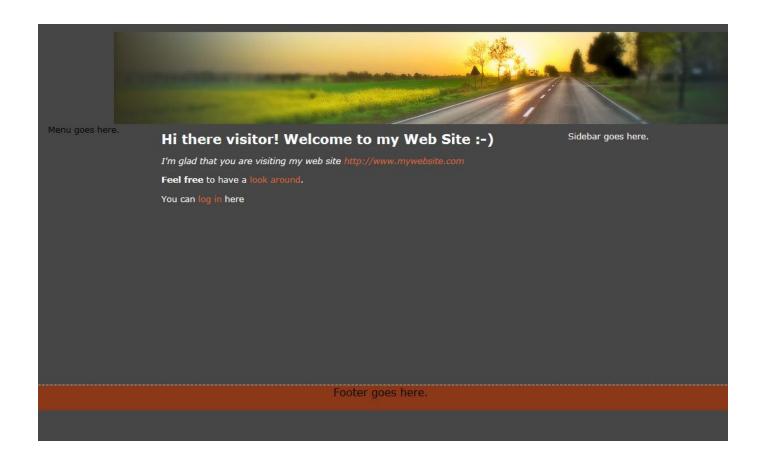


Example Adding Images to the Theme

- Open master page in source view.
- Remove the text **Header** goes here.

Example Adding Images to the Theme

• View **Default.aspx** in browser.



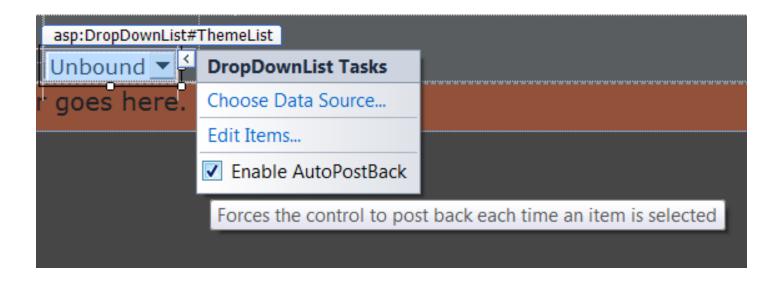
- Open master page.
- Remove the text Sidebar goes here.

Drag a DropDownList inside Sidebar

- Add text \rightarrow Select a theme
- Add

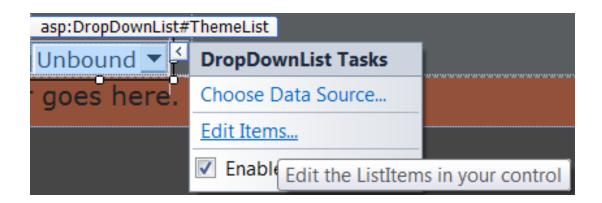
- Change ID

In Design view → Enable AutoPostBack

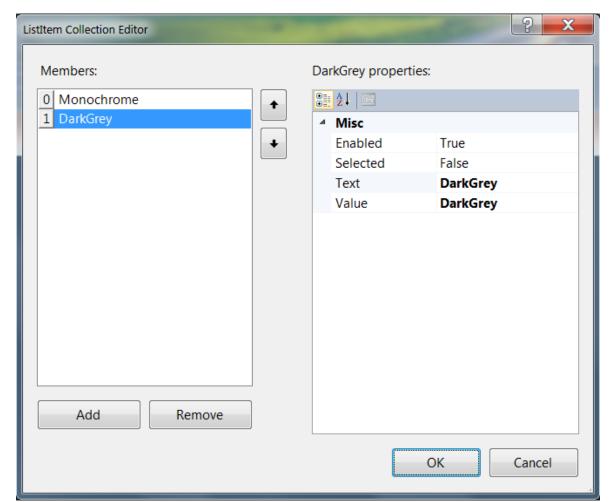


On the Smart Tasks panel

Click Edit Items



Insert 2 items: Monochrome and DarkGrey



Double-click DropDownList

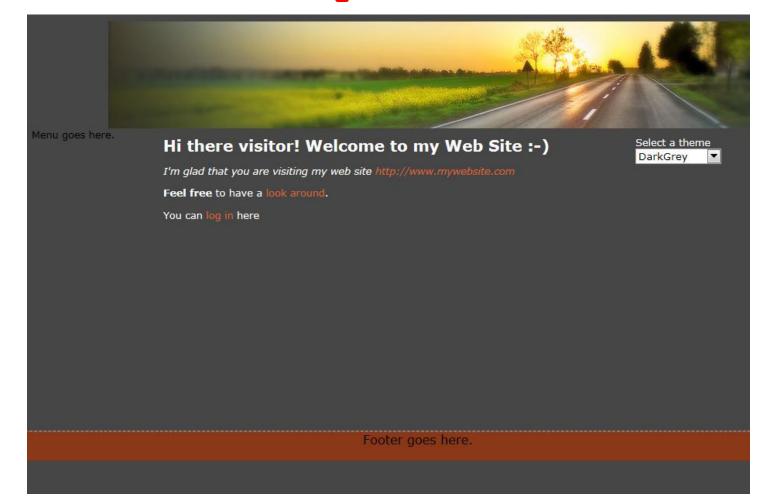
```
protected void ThemeList_SelectedIndexChanged(object sender, EventArgs e)
{
    HttpCookie preferredTheme = new HttpCookie("PreferredTheme");
    preferredTheme.Expires = DateTime.Now.AddMonths(3);
    preferredTheme.Value = ThemeList.SelectedValue;
    Response.Cookies.Add(preferredTheme);
    Response.Redirect(Request.Url.ToString());
}

Cookie is set to 3
    months from now.
The browser will discard it automatically after that period.
```

 Add code that preselects the correct item in the list again when the page loads.

```
protected void Page_Load(object sender, EventArgs e)
{
    if (!Page.IsPostBack)
    {
        string selectedTheme = Page.Theme;
        HttpCookie preferredTheme = Request.Cookies.Get("PreferredTheme");
        if (preferredTheme != null)
        {
            selectedTheme = preferredTheme.Value;
        }
        if (!string.IsNullOrEmpty(selectedTheme) && ThemeList.Items.FindByValue(selectedTheme) != null)
        {
            ThemeList.Items.FindByValue(selectedTheme).Selected = true;
        }
    }
}
```

• View **Default.aspx** in browser



Example Applying the User Selected Theme

- Open the BasePage from the App_Code folder.
- Add: private void Page_PreInit(object sender, EventArgs e) {

```
HttpCookie preferredTheme = Request.Cookies.Get("PreferredTheme");
    if (preferredTheme != null)
        Page.Theme = preferredTheme.Value;
public BasePage()
    // TODO: Add constructor logic here
    //
    this.PreRender += new EventHandler(Page PreRender);
    this.PreInit += new EventHandler(Page PreInit);
```

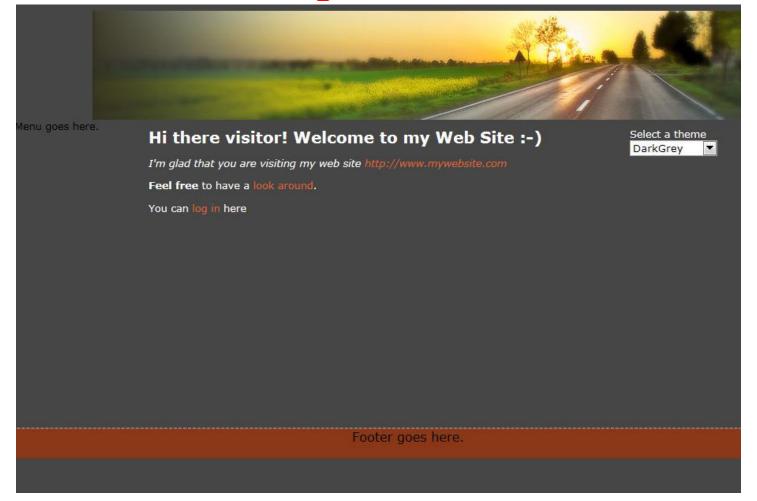
Example Applying the User Selected Theme

- Open web.config file.
- Not to see the combination of two themes



Example Applying the User Selected Theme

View Default.aspx in browser





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.

You can log in here

Select a theme
Monochrome

Skins

- Simple text files
- Enables you to define the look and feel of one or more server controls from a central location.
- Placed in a theme's folder with a .skin extension
- Server-side presentational elements of a control.

The control in the skin file cannot have an ID attribute.

The ID is used to uniquely identify a control
in a page, and because the skin is applied to
all controls, there's no point in giving it an ID.

- Not all properties of a control are skinnable.
 - Generally;
 - Properties that influence the appearance (BackColor, ForeColor, BorderColor, and so on) can be skinned
 - Properties that influence behavior (Enabled, EnableViewState, and more) cannot be set.
 - Check from MSDN documentation.

 You can <u>define multiple controls</u> in a single skin file.

- However, from a maintainability point of view, it's often <u>easier to name each skin file after</u> the control it represents.
 - Button.skin, Label.skin, and so on.

 Better to use the CssClass property to point to a CSS class in one of your CSS files.

```
<asp:Button CssClass="MyButton" runat="server" />
.MyButton
{
   color: #308462;
   background-color: #cccccc;
}
```

Easier to make site-wide changes.

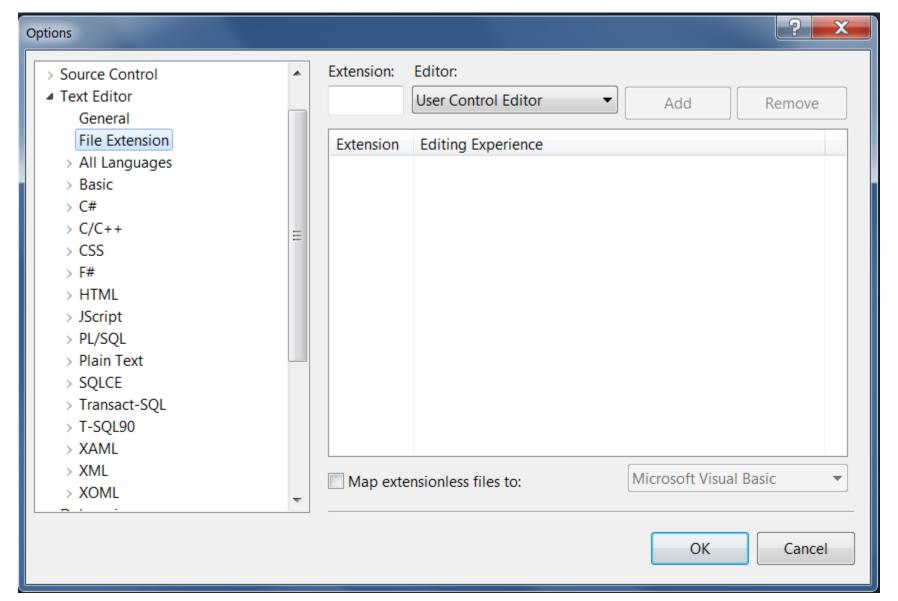
 Skin files must be created in the theme's folder directly.

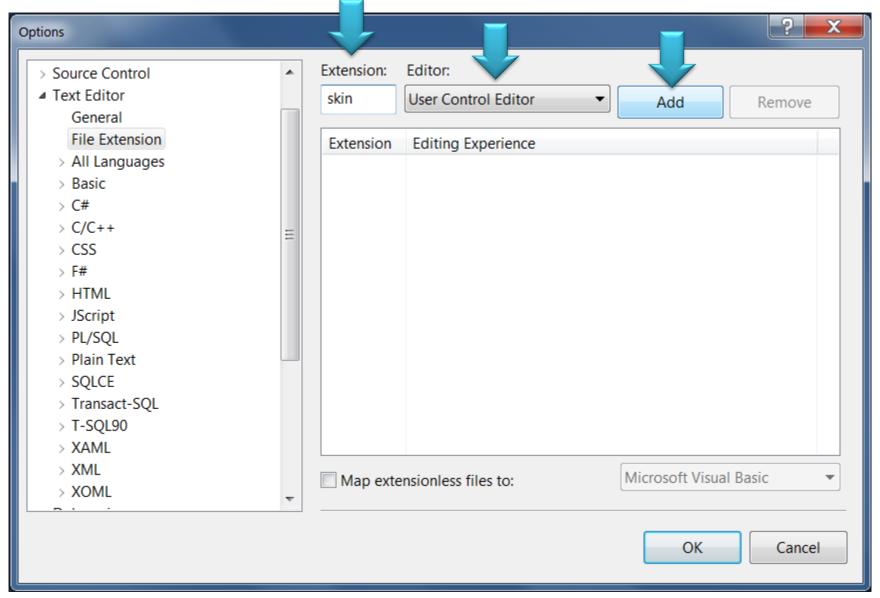
 You can't store them in a subfolder like you do with the theme's images.

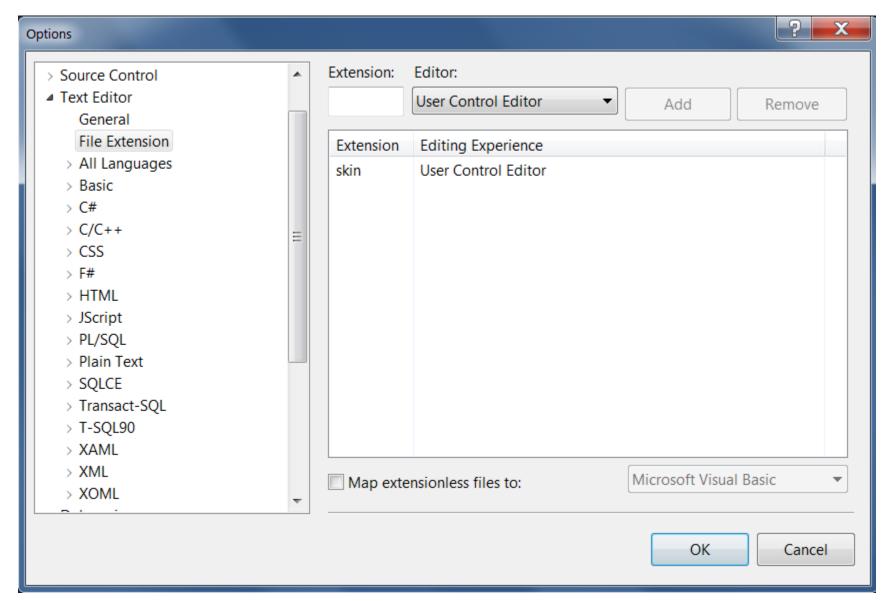
 When you start typing in a skin file, you'll notice that the familiar IntelliSense doesn't work in skin files.

- To get Intellisense in skin files:
 - Tools

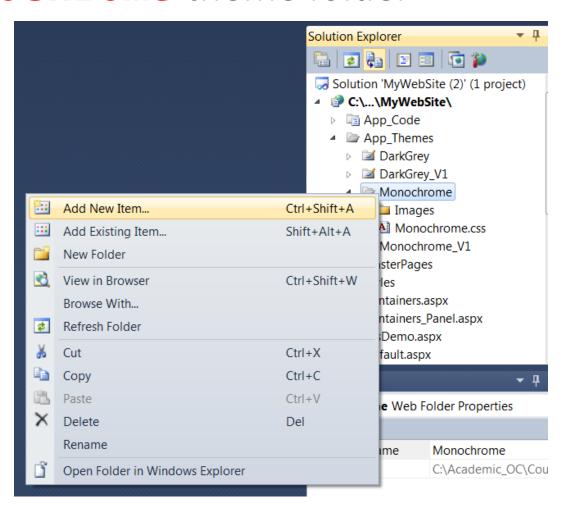
 □ Options

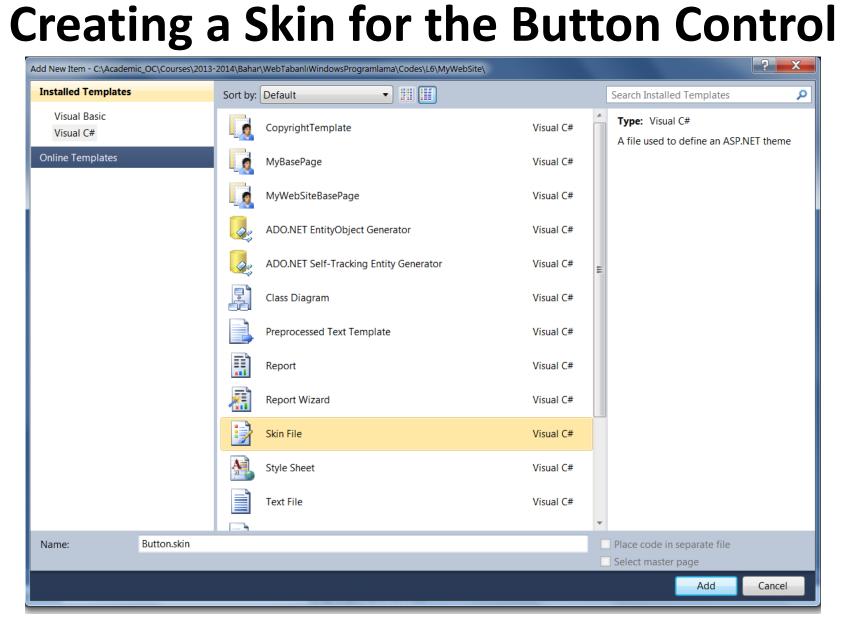




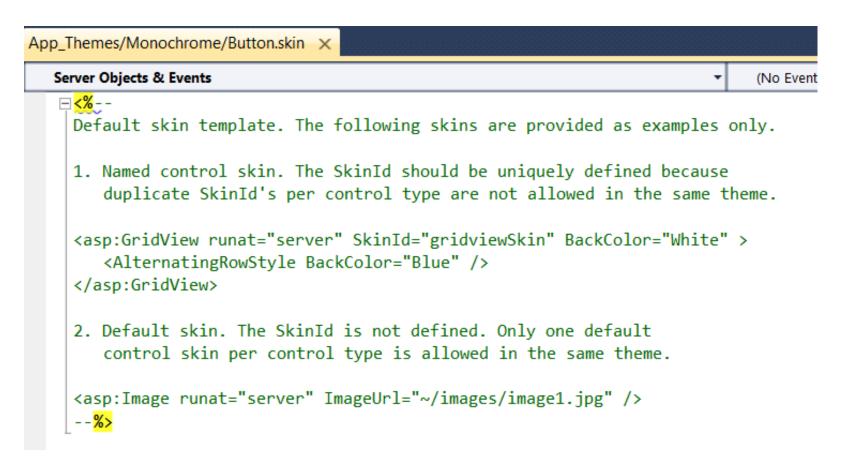


• In Monochrome theme folder





You can remove the comments if you want.



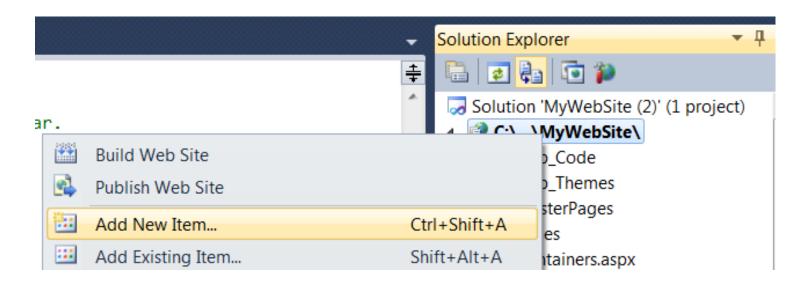
• Add:

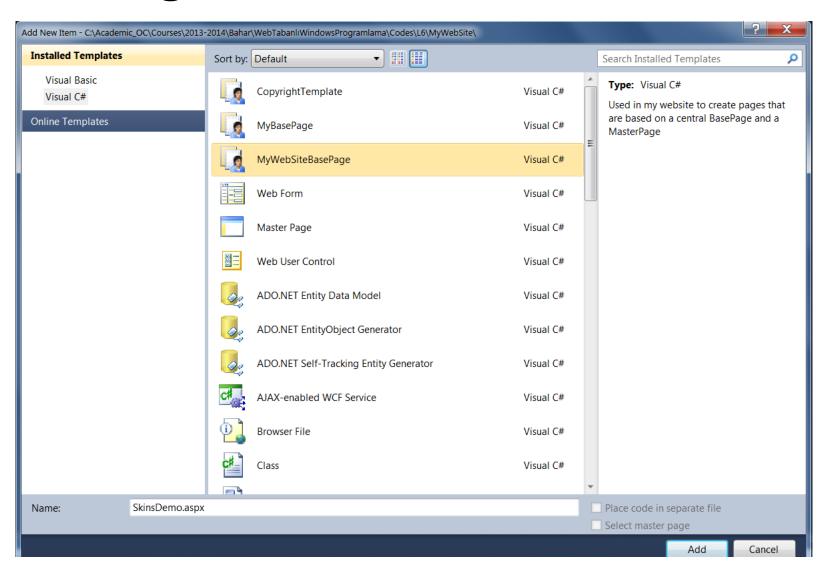
```
<asp:Button CssClass="MyButton" BackColor="#83B715" runat="server" />
```

Open Monochrome.css & add:

```
.MyButton
{
     color:White;
}
```

Add New Item in the Solution Explorer

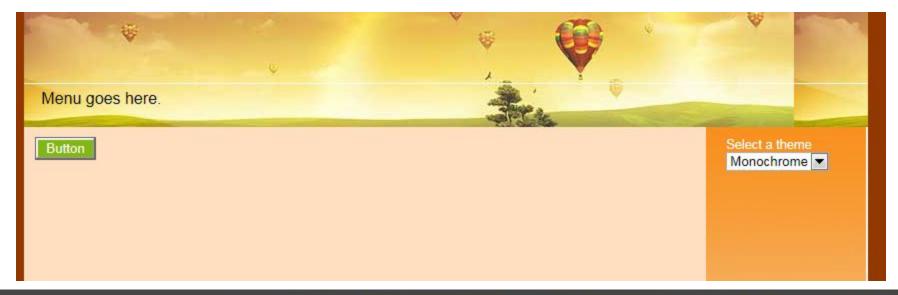




Give the page a Title

Drag a Button into the cpMainContent area

View in browser





Named Skins

 What if you don't want all your buttons to change green and white at the same time?

— What if you need one special button that has a red background?

You can do this with named skins.

- Open Button.skin
- Copy all the code & Paste it

```
<asp:Button CssClass="MyButton" BackColor="#83B715" runat="server" />
<asp:Button ID="Button1" CssClass="MyButton" BackColor="#83B715" runat="server" />
```

Remove ID and CssClass

- Change Backcolor → Maroon
- Add Forecolor="Orange"
- Add SkinID="MaroonButton"

```
<asp:Button CssClass="MyButton" Backcolor="#83B715" runat="server" />
<asp:Button Backcolor="Maroon" Forecolor="Orange" SkinID="MaroonButton" runat="server" />
```

- Open SkinsDemo.aspx
- Drag a second Button

Add SkinID

View in browser



Example Disable Theming

• Add 3rd Button to SkinsDemo.aspx

Example Disable Theming

View in browser

