ASP.NET Special Folders

Bin	Contains assemblies used by the web application
App_Code	C# or VB source code that is common to the web site. Utility classes, modules BasePages etc.
App_Data	SQLExpress databases used by the web site.
App_GlobalResources	Resources shared across all pages and controls.
App_LocalResources	Resources specific to a page or control
App_WebReferences	References to web services
App_Themes	Contains .skin, .css and image files used for the themes of the site.
App_Browsers	Optional .browser capabilities files.

Common Page and Control Directives

```
<%@ Page Language="C#" %>
<%@ Page Language="VB" %>
<%@ Page Language="C#" CodeFile="Page1.ascx.cs" Inherits="Control1" %>
<%@ Page Language="VB" CodeFile="Page1.ascx.vb" Inherits="Control1" %>

<%@ Control Language="C#" %>
<%@ Control Language="VB" %>
<%@ Control Language="C#" CodeFile="Page1.ascx.cs" Inherits="Control1" %>
<%@ Control Language="VB" CodeFile="Page1.ascx.vb" Inherits="Control1" %>

<%@ Register TagPrefix="uc1" TagName="Control1" Src="Control1.ascx" %>
<%@ Register TagPrefix="lvs" Namespace="Lvs.Web.UI" Assembly="Lvs.Web" %>

<%@ Import Namespace="System.Data" %>

<%@ OutputCache Duration="60" VaryByParam="none" %>
<%@ OutputCache Location="Server" VaryByParam="param1;param2" Duration="60" %>
<%@ OutputCache Location="None" NoStore="true" %>
```
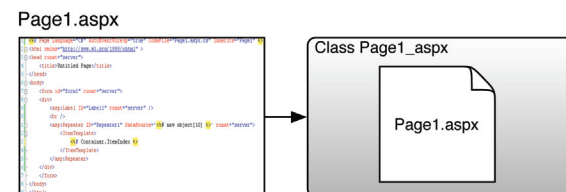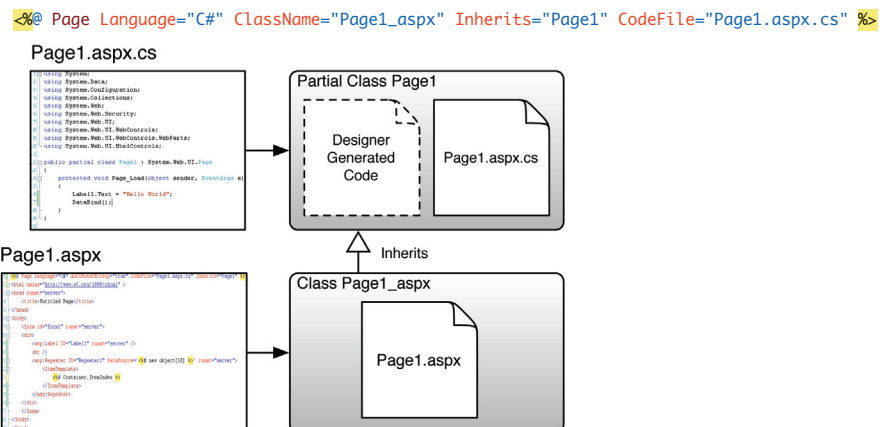
Code Blocks

Inline code block	`<% Response.Write("Hello World"); %>`
Inline render block	`<%= string.Format("2+2={0}", 2+2); %>`
Data binding expression block	`<%# Container.ItemIndex %>`
Expression block	`<%$ Resources:String, Hello %>`
Page level code. Methods, properties, variable and event handlers.	`<script runat="server"></script>`

Markup and Code in a Single File

Page1.aspx

Class Page1_aspx

Page1.aspx

Markup and Code in Separate Files. "code behind model"

```
<%@ Page Language="C#" ClassName="Page1_aspx" Inherits="Page1" CodeFile="Page1.aspx.cs" %>
```

Page1.aspx.cs

Partial Class Page1

Designer Generated Code

Page1.aspx.cs

Page1.aspx

Inherits

Class Page1_aspx

Page1.aspx

Resources

App_GlobalResources
- Strings.es-MX.resx
- Strings.resx

Strings.resx

Name ▲	Value
▶ Hello	Hello World
*	

Strings.es-MX.resx

Name ▲	Value
▶ Hello	Hola Mundo
*	

```
protected void Page_Load(object sender, EventArgs e)
{
    Label1.Text=Resources.Strings.Hello;
}
```

```
<asp:Label ID="Label1" Text="<%$ Resources:Strings, Hello %>" runat="server" />
```

App_LocalResources
- Default.aspx.es-MX.resx
- Default.aspx.resx

Default.aspx.resx

Name	Value
▶ HelloLabel.Text	Hello World!
*	

Default.aspx.es-MX.resx

Name	Value
▶ HelloLabel.Text	Hola Mundo
*	

```
<asp:Label ID="Label2" meta:resourcekey="HelloLabel" runat="server" />
```

LearnVisualStudio.NET

App Settings

```
<appSettings>
    <add key="MyKey" value="MyValue" />
</appSettings>
```

Connection Strings

```
<connectionStrings>
    <add
        name="LocalSqlServer"
        connectionString="
            data source=.\SQLEXPRESS;
            Integrated Security=SSPI;
            AttachDBFilename=|DataDirectory|aspnetdb.mdf;
            User Instance=true"
        providerName="System.Data.SqlClient"
    />
</connectionStrings>
```

Authentication

```
<authentication mode="Windows" />

<authentication mode="Forms">
    <forms
        loginUrl="Login.aspx"
        defautUrl="Page1.aspx"
        cookieless="AutoDetect"
        domain="mydomain.com"
        requireSSL="true"
    />
</authentication>
```

Authorization

```
<authorization>
    <!-- Deny anonymous users -->
    <deny users="?" />
    <!-- Allow all authed users -->
    <allow users="*" />
    <!-- Allow admin role -->
    <allow roles="Admin" />
</authorization>
```

Custom Error Pages

```
<customeErrors mode="RemoteOnly"
                defaultRedirect="MyErrorPage.htm">
    <error statusCode="403" redirect="NoAccess.htm" />
    <error statusCode="404" redirect="FileNotFound.htm" />
</customErrors>
```

Default Settings for Pages

```
<pages
    theme="MyTheme"
    styleSheetTheme="MyTheme"
    autoEventWireup="true"
    masterPageFile="MyMaster"
    pageBaseType="MyBasePage"
    userControlBaseType="MyBaseControl"
>
    <controls>
        <add tagPrefix="uc"
             tagName="MyControl"
             src="~/Controls/MyControl1.ascx" />
        <add tagPrefix="pfx"
             tagName="MyAssembly"
             src="My.Namespace" />
    </controls>
    <namespaces>
        <add namespace="System.Text" />
    </namespaces>
</pages>
```

Providers

```
<membership>
    <providers>
        <clear />
        <add
            name="AspNetSqlMembershipProvider"
            type="System.Web.Security.SqlMembershipProvider,
                System.Web,
                Version=2.0.0.0,
                Culture-neutral,
                PublicKeyToken=b03f5f7f11d50a3a"
            connectionStringName="LocalSqlServer"
            enablePasswordRetrieval="false"
            enablePasswordReset="true"
            requiresQuestionAndAnswer="true"
            applicationName="/"
            requiresUniqueEmail="false"
            passwordFormat="Hashed"
            maxInvalidPasswordAttempt="5"
            minRequiredPasswordLength="7"
            minRequiredNonalphanumericCharacters="1"
            passwordAttemptWindow="10"
            passwordStrengthRegularExpression=""
        />
    </providers>
</membership>

<profile>
    <providers>
        <clear />
        <add
            name="AspNetSqlProfileProvider"
            connectionStringName="LocalSqlServer"
            applicationName="/"
            type="System.Web.Profile.SqlProfileProvider,
                System.Web,
                Version=2.0.0.0,
                Culture-neutral,
                PublicKeyToken=b03f5f7f11d50a3a"
        />
    </providers>
</profile>

<roleManager>
    <providers>
        <clear />
        <add
            name="AspNetSqlRoleProvider"
            connectionStringName="LocalSqlServer"
            applicationName="/"
            type="System.Web.Profile.SqlRoleProvider,
                System.Web,
                Version=2.0.0.0,
                Culture-neutral,
                PublicKeyToken=b03f5f7f11d50a3a"
        />
    </providers>
</roleManager>
```