



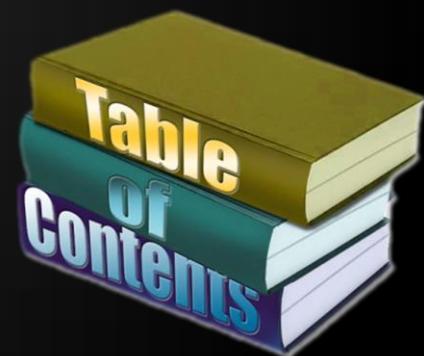
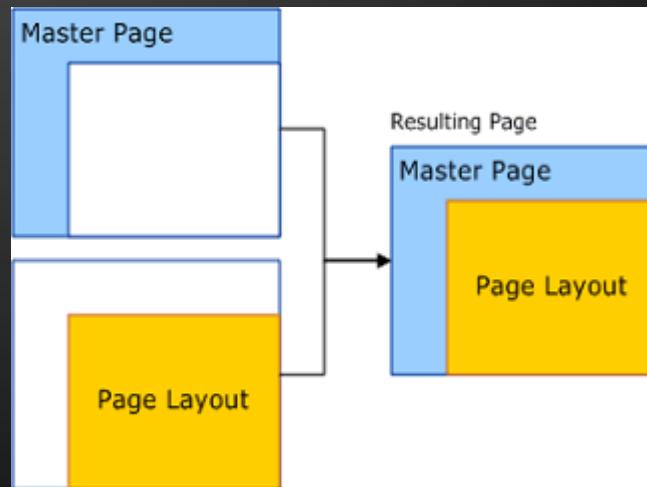
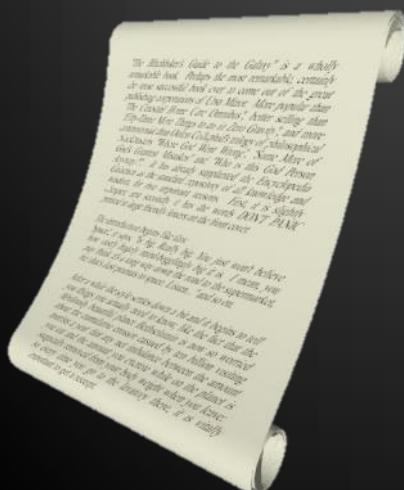
Master Pages

Using ASP.NET Master Pages

ASP.NET Web Forms
Telerik Software Academy
<http://academy.telerik.com>



1. Master Pages and Content Pages
2. Nested Master Pages



Master Pages and Content Pages



Master and Content Pages

- ◆ Assume we have a classical web site like this:

The screenshot shows a web browser window displaying a website for the Bulgarian Association of Software Developers (BASD). The browser's title bar reads "Bulgarian Association of So x" and the address bar shows "file:///C:/NAKOV/.NET-Essentials/Lectures/4.%20Web%20Front-End%20Development/3.6.%". The website has a header with the BASD logo and name. A sidebar on the left contains links to Home, About us, Projects, Members, Partners, Forum, and Contacts. The main content area has two sections: "Overview" and "Objectives". The "Overview" section contains text about the association's purpose and activities. The "Objectives" section lists several bullet points. At the bottom, there is a copyright notice: "© 2004-2006 Bulgarian Association of Software Developers".

Bulgarian Association of Software Developers

Home
About us
Projects
Members
Partners
Forum
Contacts

Overview

Bulgarian Association of Software Developers (BASD) is a non-profit organization that actively supports the professional advance of the Bulgarian developers. It works for encouragement of experience exchange between them and improvement of their knowledge and skills in the area of software design and development. The Association organizes conferences, seminars and training courses for software development and software technologies specialists.

Objectives

The objectives of the Bulgarian Association of Software Developers are:

- Supporting the professional advance of the Bulgarian software developers by various activities, aiming to improve their knowledge and skills in the area of software design and development;
- Establishing conductive conditions for experience exchange between software developers;
- ...

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The Master Page – Sections

- ◆ The header is shared between all pages:

Header

Bulgarian Association So X

file:///C:/NAKOV/.NET-Essentials/Lectures/4.%20Web%20Front-End%20Development/3.6.%20Master%20Page.html

BASD
Bulgarian Association
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The Master Page – Sections (2)

- ◆ The navigation is shared between all pages:

Navigation

BASD
Bulgarian Association
Of Software Developers

[Home](#)
[About us](#)
[Projects](#)
[Members](#)
[Partners](#)
[Forum](#)
[Contacts](#)

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The Master Page – Sections (3)

- ◆ The footer is also shared between all pages:

The screenshot shows a web browser window displaying a website for the Bulgarian Association of Software Developers (BASD). The browser's title bar reads "Bulgarian Association of So X". The address bar shows the local file path: "file:///C:/NAKOV/.NET-Essentials/Lectures/4.%20Web%20Front-End%20Development/3.6.%20The%20Master%20Page%20-%20Sections%20(3).aspx". The page content is as follows:

BASD
Bulgarian Association
Of Software Developers

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[About us](#)
[Projects](#)
[Members](#)
[Partners](#)
[Forum](#)
[Contacts](#)

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A large grey arrow points from the bottom left towards the footer area of the page.

The Content Pages

- ◆ The content is different for all pages:

The screenshot shows a web browser window displaying a content page for the Bulgarian Association of Software Developers (BASD). The page has a sidebar on the left containing links to Home, About us, Projects, Members, Partners, Forum, and Contacts. The main content area features a large image of a computer screen with code, followed by two sections: 'Overview' and 'Objectives'. The 'Overview' section contains a paragraph about the association's mission. The 'Objectives' section lists three bullet points. At the bottom, there is a copyright notice.

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Content

Why Use Master and Content Pages?

- ◆ Master pages provide reusable UI templates
- ◆ The structure of the site is repeated over most of its pages
 - ◆ ASP.NET master pages allow to share the common HTML between few pages
- ◆ Common Look & Feel
- ◆ To avoid the repeating (and copying) of HTML code and the logic behind it

- ◆ Master pages in ASP.NET Web Forms start with the @Master directive
 - ◆ Mostly the same attributes as the @Page directive
- ◆ Master pages can contain:
 - ◆ Markup for the page (<html>, <body>, ...)
 - ◆ Standard contents (HTML, ASP.NET controls)
 - ◆ <asp:ContentPlaceHolder> controls which can be replaced in the content pages

- ◆ Content pages derive the entire content and logic from their master page
- ◆ Use the @Page directive with MasterPageFile attribute pointing to the master page
 - ◆ Replace a <asp:ContentPlaceHolder> from the master page by using the <asp:Content> control
 - ◆ Set the ContentPlaceHolderID property
 - ◆ Points to the ContentPlaceHolder from the Master page which content we want to replace

Master and Content Pages – Mechanics

Site.master

```
<%@ Master %>

Header

Navigation

<asp:ContentPlaceHolder
    ID="MainContent">
    Here we put the
    default content
</asp:ContentPlaceHolder>

Footer
```

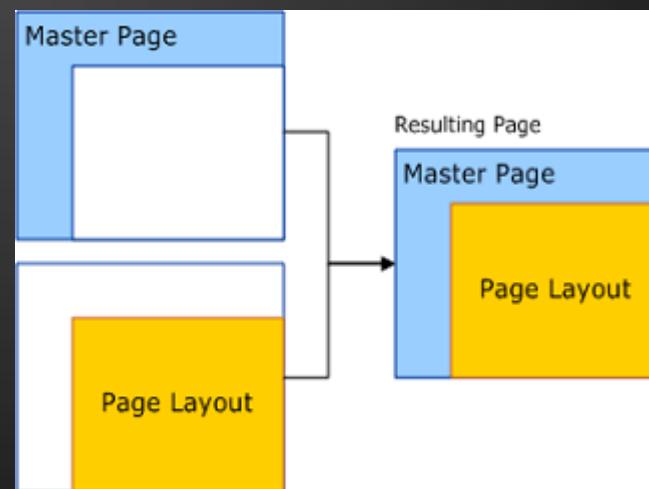
Default.aspx (content page)

```
<%@ Page MasterPageFile=
    "~/Site.master" %>

<asp:Content
    ContentPlaceholderID=
    "MainContent">
    Here we put the contents
    with which we want to
    replace the default ones
</asp:content>
```

Using Master Pages

Live Demo



Master and Content Pages – Advanced

- ◆ We can change the Master page at runtime in the code-behind

```
Page.MasterPageFile = "~/SiteLayout.master";
```

- ◆ We can also select the Master page according to the browser type

```
<%@ Page Language="C#"
    ie:MasterPageFile="~/IESiteLayout.master"
    mozilla:MasterPageFile="~/FFSiteLayout.master" %>
```

Nested Master Pages

- ◆ Master pages can be nested, with one master page referencing another as its master
 - ◆ Nested master pages allow creating componentized master pages
 - ◆ A child master page has the file name extension **.master**, as any master page

```
<% @ Master Language="C#" %>      // Parent Master Page
<asp:ContentPlaceHolder ID="MainContent" runat="server" />
```

```
<%@ Master Language="C#" MasterPageFile="~/Parent.master"%>
<asp:Content ID="Menu" ContentPlaceholderID="MainContent"
    runat="server">
    <asp:ContentPlaceHolder ID="LeftMenu" runat="server" />
    <asp:ContentPlaceHolder ID="TopMenu" runat="server" />
</asp:Content>                      // Child Master Page
```



Nested Master Pages

Live Demo

Questions?



- 1. Implement a simple Web Forms application using master pages. The application should be like a user profile – separate pages for Personal Info, Friends, Additional Info, etc. + Sidebar for navigation.**

- 2. Implement a Web Forms application using nested master pages. It should be a Web site of international company. You should have master layout page and few different nested master pages for each country and few content pages in different language, for each country. Define "Home", "About" and "Contacts" pages for each country using its master page.**

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