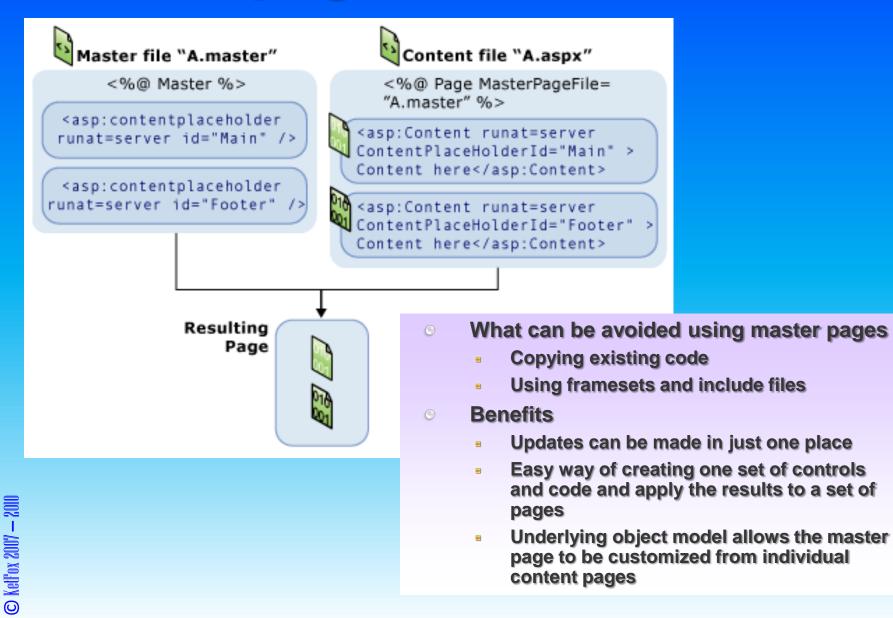
# **ASP.NET programming**

Master page/Content pages Navigation/SiteMap/Menu control Passing data in Session variables

## **Master pages**



# Navigation

- Menu and TreeView controls support the following features
  - In site navigation through integration with the <u>SiteMapDataSource control</u>
  - <u>Programmatic access</u> to the Menu or TreeView object model to <u>dynamically</u> create menus or trees, populate menu items or tree nodes, set properties, and so on
  - <u>Customizable appearance</u> through themes, user-defined images, styles, and user-defined templates
  - <u>Data binding</u> that allows the nodes of the control to be bound to XML, tabular, or relational data
  - TreeView node text that can be displayed as <u>either plain text or hyperlinks</u>
  - <u>Ability to display check box</u> next to each TreeView node

## **Passing data in Session variables**

#### Good news

- Flexible, easy to use
- Can hold any serializable object
- Bad news
  - Scalability may be an issue
  - Weak typing, needs casting
  - No Intellisense help in Visual Studio

Work-around exists

### How To Use Session Variables in Strongly Typed Manner

- Handler class is created
  - Includes for each session variable strongly typed public static property
  - Session variables are read and writen through these properties
- In get accessor
  - For reference types, if session variable is null, either null is returned, or a new object with default properties is initalized and returned, otherwise appropriate type cast session variable is returned
  - For value types default value is returned
- In set accessor
  - Value is saved to appropriate session variable

#### **Strongly Typed Usage of Session Variables**

#### **Session handler implementation**

```
public class SessionHandler {
  public static String Password {
    qet {
      if (HttpContext.Current.Session["Password"] == null)
        return null;
      else
        return (String)HttpContext.Current.Session["Password"];
    }
    set {
      HttpContext.Current.Session["Password"] = value;
    ł
  public static int ListIndex {
    qet {
      if (HttpContext.Current.Session["ListIndex"] == null)
        return -1;
      else
        return (int)HttpContext.Current.Session["ListIndex"];
    }
                                                                  Session handler
    set {
                                                                   USECIE
      HttpContext.Current.Session["ListIndex"] = value;
                                      if (SessionHandler.Password == null)
  }
                                        Response.Redirect("Home.aspx");
}
                                                     SessionHandler.ListIndex =
                                                       ListBox1.SelectedIndex;
```

# DEMO

#### Master page/Content pages Navigation/SiteMapDataSource Strongly typed usage of session variables