



▶ Microsoft .NET

▶ Writing Web Pages
(Intro)

Introduction

Under IIS and ASP.NET, a dynamic web page is represented by a simple text file with the extension .aspx.

Such a file may contain a mixture of (static) HTML, ASP.NET objects and a server-side script. ASP.NET objects are built-in .NET classes that generate HTML when the page is processed. Scripts contain functions and subroutines that are invoked by events (such as the Page_Load event that fires when the page is loaded by a client browser) or by other forms of user interaction.

Typically, a script will generate HTML dynamically, when the page is loaded. For example, a script could perform a database operation and return an HTML table containing a list of products and prices. A script may also contain code to process user interaction, for example to process the contents of a Form that is filled in and then submitted by the user.

These scripts are referred to as server-side scripts because they are executed on the server. The browser sees only the results produced by the scripts and not the scripts themselves. Code in a server-side script always involves the generation of a new page by the server for display in the browser.

The first time ASP.NET processes a .NET web page, it compiles the entire page into a .NET Assembly. Subsequently, it calls the code in the assembly directly. The language used to compile the page is defined in the <script> section, which is typically defined at the top of the page.

Your first APL Web Page

The first web page example named intro1.aspx, which is listed next page. This page displays a button whose text is reversed each time you press it.

Dyalog Ltd

South Barn
Minchens Court
Minchens Lane
Bramley
Hampshire
RG26 5BH
United Kingdom

Phone:

+ 44 (0) 1256 830 030

Fax:

+ 44 (0) 1256 830 031

e-mail:

sales@dyalog.com



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```

<script language="apl" runat="server">

  ▽Reverse args
  :Access Public
  :ParameterList Object,EventArgs

  (>args).Text←φ(>args).Text
  ▽

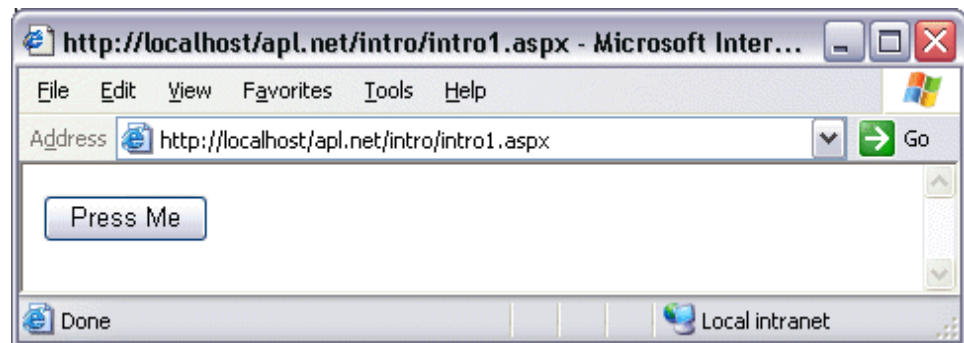
</script>

<html>
<body>
<Form runat=server>
<asp:Button id="Pressme"
Text="Press Me"
runat="server"
OnClick="Reverse"
/>
</form>
</body>
</html>

```

In this example, the page language is defined in the <script> section to be "apl". This in turn is mapped to the APLScript compiler via information in the ASP.NET configuration file, Machine.config.

The page layout is described in the section between the <html> and </html> tags. This page contains a Form in which there is a Button labelled (initially) "Press Me"



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e-mail:

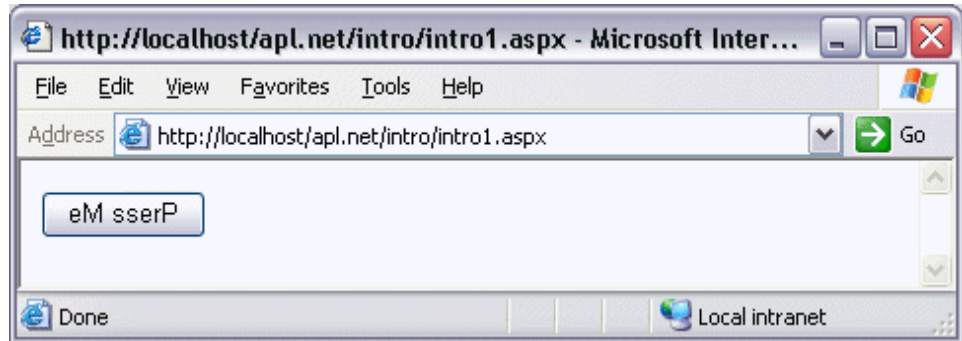
sales@dyalog.com



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Pressing the button causes the page to re-load as shown below.



For further information, run an on-line tutorial hosted by Dyalog's in-house example web server. You will find the tutorial [here](#).

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e-mail:

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