

What's new in ASP.NET 3.5?

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What we'll look at...

ASP.NET AJAX

- What's new?

Data Access

- What's new?

Silverlight

- Where it fits?

ASP.NET
"Futures" Release

- Upcoming Bits



ASP.NET AJAX

- v1.0 works on ASP.NET 2.0 and VS 2005
 - Shipped in Jan as separate download
- Delivers core ASP.NET AJAX foundation

ASP.NET AJAX

JS Type
System

Networking &
Serialisation

JS BCL

Server Control
Integration

Browser
Compatibility

- All ASP.NET AJAX 1.0 features in .NET 3.5

ASP.NET AJAX Control Toolkit

- Separate download from core ASP.NET AJAX
 - Library of free ASP.NET AJAX enabled controls
 - Download from <http://ajax.asp.net>
- Developed using a collaborative source model
 - All source freely available with modification license
 - Both Microsoft & non-Microsoft developers can contribute
- Around 40 controls today

Visual Studio 2008 AJAX Support

- JavaScript Intellisense
 - Code intellisense for client-side JavaScript
 - Integrated editor support for ASP.NET AJAX JS Library
 - Intellisense against JSON enabled .asmx web services
- JavaScript Debugging
 - Improved discoverability
- ASP.NET AJAX Extender Control Support
 - Easy design-time to attach extenders

demo

ASP.NET AJAX Support



Data Access & LINQ

Today's Data Access Challenges

- How to retrieve non-relational data?
 - XML, RSS, Web Services, REST, AD, Files, etc.
- How to interact with plain old objects?
 - How do you interact and query custom domain models?
- How to enable rich data shaping & transformations?
 - Support flexible query composition
- How to enable clean code in both a strongly typed and dynamic language world?

As a Result

- We use many different types of query
 - SQL, XQuery/XPath, DataView row filters, etc.
- Maybe we could enhance productivity by...
 - Deciding on one query expression syntax
 - Enabling compilers to check queries & results
 - Allow extensibility to target all kinds of data

LINQ

- Query, Set and Transform Operations for .NET
- Makes querying data a core programming concept
- Works with all types and shapes of data
 - Relational databases
 - XML
 - Plain old Objects
- Works with all .NET languages
 - New VB and C# have integrated language support

Language Innovations

```
var condiments =  
  from p in products  
  where p.Category == "Condiments"  
  select new { p.Name };
```

Query
expressions

Local variable
type inference

```
var condiments =  
  products  
  .Where(p => p.Category == "Condiments")  
  .Select(p => new { p.Name });
```

Lambda
expressions

Extension
methods

Anonymous
types

Object
initializers

demo

LINQ

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New ASP.NET Data Controls

- `<asp:ListView>`
- `<asp:LinqDataSource>`
- `<asp:DataPager>`

demo

Data Access in ASP.NET 3.5





Microsoft®
Silverlight™

*Microsoft Silverlight is a cross-browser,
cross-platform implementation of .NET for
building and delivering the next generation
of media experiences & rich interactive
applications for the Web.*

Silverlight

- Media Rich Content
- Interactive Applications
- Rich Internet Applications
- Enhancements
 - Javascript Intellisense for Silverlight
 - ASP.NET Server Controls (Futures Release)



demo

Silverlight

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ASP.NET Futures

ASP.NET "Futures" Release

- First look at more upcoming features for ASP.NET
 - These will ship as a separate download next spring
- A few features included in it today:
 - <asp:History> control
 - <asp:Diagnostics> control
 - <asp:media> control
 - <asp:xaml> control
 - CSS Control Selectors support in ASP.NET AJAX
 - New Dynamic Data Controls
- Coming soon
 - ASP.NET MVC UI framework

demo

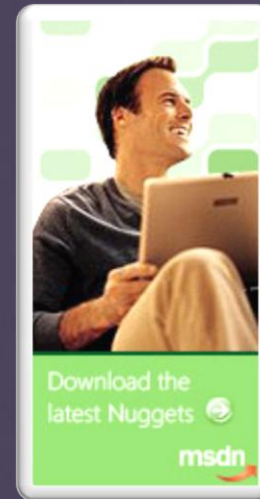
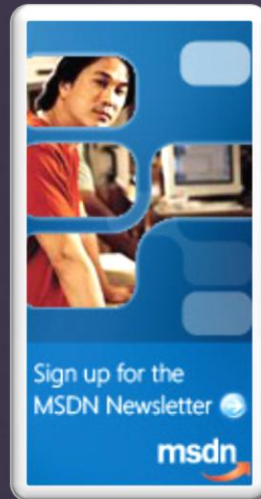
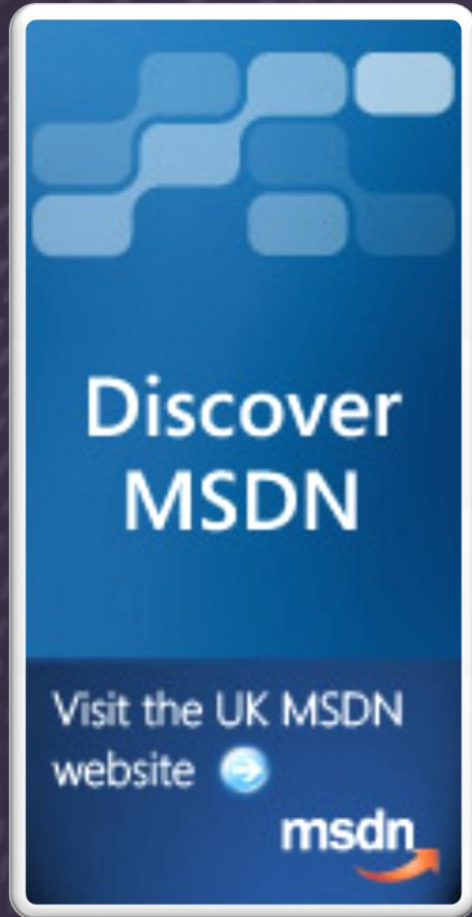
ASP.NET Futures Release



Additional Information

- ASP.NET AJAX
 - <http://ajax.asp.net>
- Data Access And LINQ
 - <http://weblogs.asp.net/scottgu>
 - <http://www.microsoft.com/uk/msdn/nuggets>
- Silverlight
 - <http://www.silverlight.net>
- ASP.NET Futures
 - <http://www.asp.net/downloads/futures>
- General
 - <http://weblogs.asp.net/scottgu>
 - <http://mikeo.co.uk>

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