

# What's new in ASP.NET 3.5?

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**ASP.net**™

# 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**

# 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**

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# ***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**

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**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

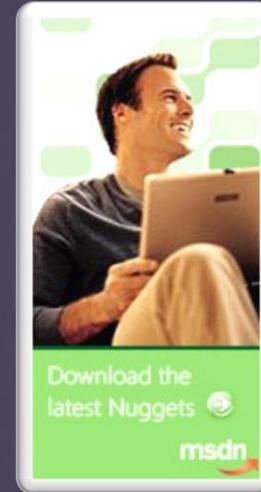
**ASP.NET Futures Release**

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# 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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