Visual Studio 2008: An Insider’s Personal View

By now you will have heard that Visual Studio 2008 was made available to MSDN subscribers in November 2007 and will be broadly available in February 2008. If you are not an MSDN subscriber you can still download a 90-day trial of Visual Studio 2008. After that, if you decide to purchase you will be able to upgrade in-place by entering your product key.

So what do we get with this release and is it worth the upgrade? In this short article I’ll set things in context and then give you a tour of the new features pointing out things you should look for in your VS2008 installation.

First, let’s take a trip down memory lane. Previous releases of Visual Studio were aligned and tied to a specific version of the .NET Framework, which itself was aligned with and tied to the Common Language Runtime (CLR) engine (Figure 1): .NET Framework v3.0 in VS2008 is: new WPF designer, ClickOnce and XBAP deployment to Firefox, WCF support for an HTTP SOAP-less programming model, syndication support, partial trust for services and JSON serialisation. There is also integration of WF and WCF both with the new Send/Receive activities and also through a new Workflow/ServiceHost class.

At the same time as VS2008, a new version of the .NET Framework is released (v3.5) and a Service Pack to v2.0 and v3.0. We also get brand new compilers for both Visual Basic and C#. The really cool feature of VS2008 is that it can target whichever version of the framework you are interested in and thus it can be seen as a superset to VS2005 (Figure 2).

It is for this reason that I personally call it “the no brainer upgrade”. Not only it can co-exist on the same machine with VS2005, not only is it for this reason that I personally call it “the no brainer upgrade”. Not only it can co-exist on the same machine with VS2005, not only does it get a bunch of new features not necessarily related to web development. For example, Office developers will be delighted to hear that they can create Office (both 2007 and 2007).
2003) addins with the Professional Edition of VS2008. There are many new options available especially when targeting Office 2007 such as customising the new Office ribbon, custom task panes, form regions, actions panes, content controls and easy interop between managed and VBA code. From the feature list you can probably tell that in addition to addins at the application level (for Word, Excel, PowerPoint, Visio, InfoPath, Project and Outlook), you can also create addins at the document level (for Word and Excel). One of the most requested features for Office addins has been an easier deployment model and we get that with full ClickOnce support. All in all, I would encourage all managed developers building client applications to give Office development a try because it has truly become a breeze with Visual Studio 2008.

I hope that by reading this article so far you can see that there is something for all types of developers (client, service, web and office) in VS2008. Worthy of note is that Unit Testing is supported in the Professional Edition and it now includes support for device projects as well, which will make my mobility friends happy. Having said all that, there is one new feature in .NET Framework v3.5 that has deservedly stolen the spotlight. The feature can be used in web projects, client/office projects, mobile projects and anywhere where you write code really. It is called: the Language Integrated Query (LINQ).

LINQ (see Figure 4) introduces a SQL-like syntax into C# 3.0 and VB9 combined with rich extension method implementations that are part of Framework v3.5. As a developer you learn a single declarative pattern that encompasses filtering, grouping, ordering etc, and you can then apply it to all kinds of data sources: in-memory objects, XML, DataSets and SQL Server. The cool thing about LINQ is that it is fully extensible to incorporate any other data source and there are already 3rd party LINQ providers available and more from Microsoft in the works. In the future, it will be very easy for LINQ queries to be parallelised on multi-core/CPU machines with almost no code changes.

I hope you enjoy using VS2008 as much as I do. If you want to see the code in action for ALL the features I described above, please read my blog posts on http://www.danielmoth.com/Blog and watch my screencasts linked from the left on my blog page. Thanks for reading.