

So you want to be a .NET programmer?

Presentation & Networking Seminar

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MCP MCSE MCTS MCPD MCT CSM

Seminar Objective

- To help you identify what is out there in the .NET space
- Networking with people of a similar interest
- Provide a platform for you to ask questions to educators
- Help define & build your career

Who am I?

- .NET Educator @ Benchmark Learning
- Entrepreneur
- SCRUM Master
- Basketball Player
- Tweeter - @au55ie
- Blogger – www.brianlockwood.info
- Convict (just kidding) – Australian
- Microsoft Certified Trainer
- Yes it's a VERY GREEN SHIRT!

Outline

- .NET Technologies
- A Programmers Life
- Developer Cross-Roads
- Career Opportunities

.NET Technologies

- Microsoft .NET is made up of three pieces: .NET Framework, .NET Servers, and .NET Services.
- ASP.NET Web Forms
- ASP.NET MVC
- AJAX
- Silverlight
- Windows Presentation Foundation
- Windows Communication Foundation
- LINQ

Integrated Development Environment

- **My goal is to find a way for you to get a FREE copy of Visual Studio by the end**
- Visual Studio 2005 / 2008 / 2010
- .NET 3.5 & 4.0
- Templates
- Debugging
- Tracing
- Rapid Application Development



Visual Studio 2008 Professional Edition

- Deliver high-performance applications
- Create dynamic client applications
- Build powerful Web applications

\$799.00

[Details](#)

ASP.NET Web Forms

- Web application framework
- ASP.NET still renders HTML
- Pages & Code-behind model
- User controls
- Custom controls
- State management

ASP.NET MVC

- ASP.NET MVC is a framework for building web applications that use a model-view-controller pattern. Free Resource: www.asp.net/mvc

ASP.NET MVC provides the following benefits:

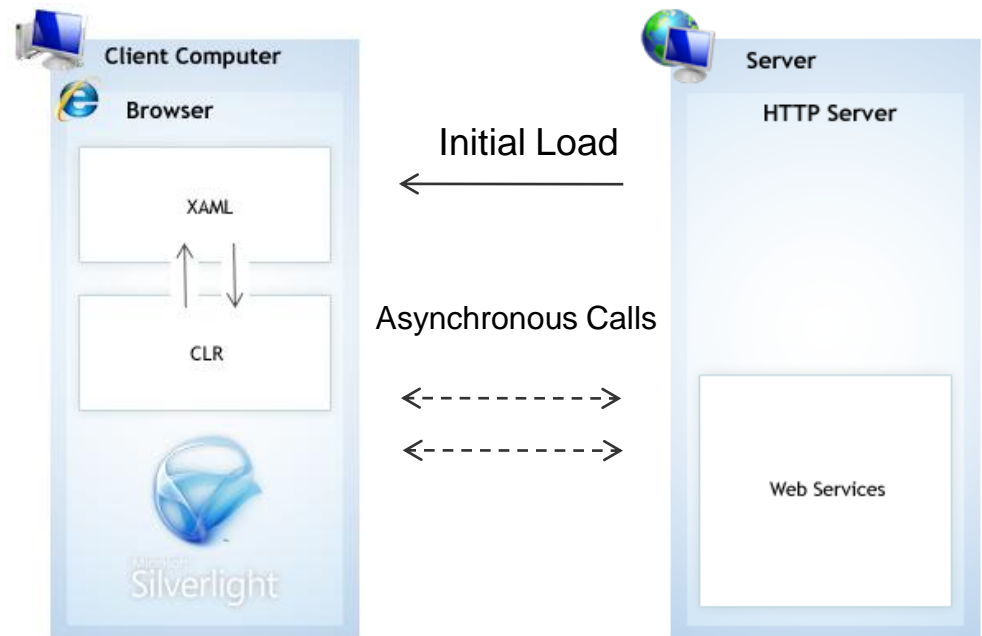
- Provides **complete control over your HTML** markup
- Enables rich AJAX integration
- **Intuitive website URLs**
- Clear **separation of concerns** which results in web applications that are easier to maintain and extend over time.
- **Testability** – including support for test-driven development.

AJAX

- Asynchronous Javascript & XML
 - Sometimes called AJAH
- Process requests on other threads
- Allows for interactivity and usability
 - No flashing white screens on postbacks
- JQuery now included in Visual Studio 2008
 - www.jquery.com
- AJAX ASP.NET & AJAX Control Toolkit
 - ajax.asp.net

Silverlight

- Web applications that have the features and functionality of traditional desktop applications
- Extensible Application Markup Language
- WPF/E



Windows Presentation Foundation

- Windows Applications
- Separation of UI & logic
- Extensible Application Markup Language
- Animation, 3D, vector graphics & data binding
- Check out
 - WPF Demo : GalaSoft
- Develop using Visual Studio 2008 or Expression Blend

Windows Communication Foundation

- Designed to offer a manageable approach to distributed computing, broad interoperability, and direct support for service orientation.
- Encapsulates COM, COM+, Remoting, MSMQ, Web services and other technologies
- Security in mind (compared to web services)
- Like a universal adapter
 - Goal is to connect a device to power
 - Similar to connect application to data



LINQ

- Language Integrated Query
- .NET Code
- No need to understand underlying query language
- Used on any enumerable collection
- LINQ Providers
 - LINQ to SQL
 - LINQ to XML
 - LINQ to Amazon

Code Sample

```
int[] nums = { 4,10,3,7,9 };  
  
var q = from i in nums  
        where i > 5  
        select i;
```

Demo

- Show AJAX ASP.NET Control Toolkit
 - <http://www.asp.net/ajax/AjaxControlToolkit/Samples/>
- Show Silverlight Toolkit Samples
 - <http://silverlight.net/content/samples/sl3/toolkitcontrolsamples/run/default.html>
- Show WPF Demo
 - <http://www.galasoft-lb.ch/mydotnet/GalaSoftLb.Wpf.Demo/published/win/publish.htm>

A Programmers Life

- Continuous improvement
- Planning your career using the Role Profile Tool
- Using social media
- User groups, conferences & events

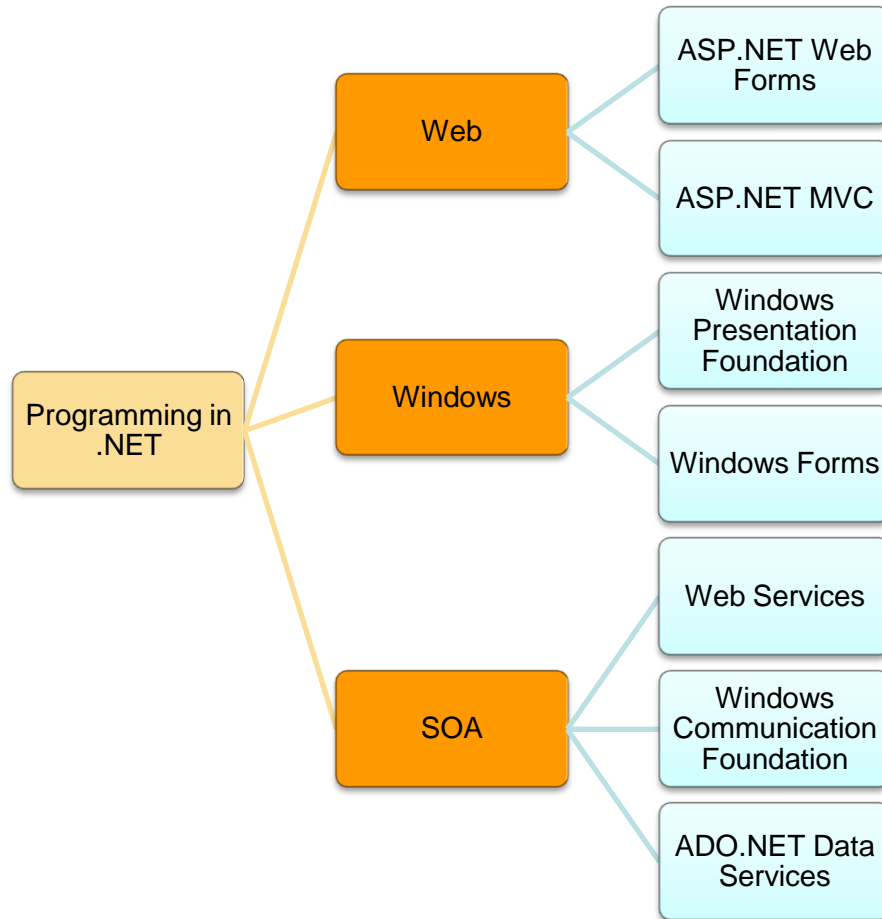
Continuous Improvement

- Education is a necessity
- Languages evolve (C, C++, C#)
- Research & development on personal time
- Software
 - DreamSpark (Globe University Campus)
 - WebsiteSpark
 - BizSpark (BizSpark Network Partner)
 - Visual Studio Express
- Innovative developers harness new technology and adapt

Planning Your Career

- Benchmark Learning Educators help define & build careers
 - Role Profile Tool
 - CareerBooster
 - Student Learn Plans
- Even team leads are required to have foresight and soft skills as well as a foundational technical core

Planning Your Career - Path



AJAX

Silverlight

LINQ

ADO.NET

Windows Identity Foundation

Windows Workflow Foundation

Entity Framework

Using Social Media

- Twitter for business
- Blog for community
- LinkedIn – Answers & Connections
- Facebook
 - Pages

User Groups, Conferences & Events

- User groups are one of the best ways to network, see real world implementations, practice presentation skills
- Best resource: plantskillsharvestknowledge.com
- Paid conferences & events (Pro. Speakers)
- Some are:
 - TechMasters
 - Silverlight User Group
 - Developers Guild
 - .NET User Group

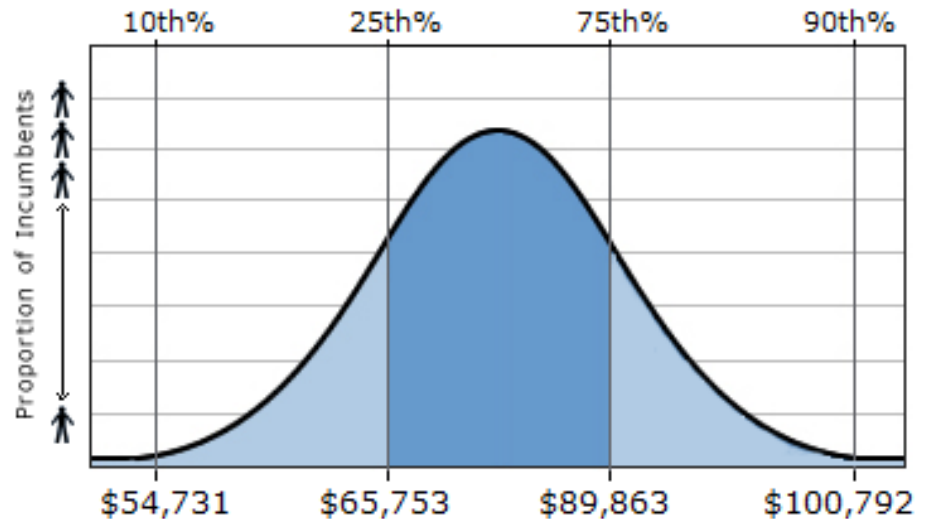
Career Opportunities

- Web Developer
- Windows Developer

Web Developer

\$55k - \$100k

- **HTML/CSS**
- **Javascript**
- **ASP.NET**
- **C# / VB**
- SQL Server / Oracle
- LINQ
- AJAX
- Silverlight
- **AGILE - SCRUM**
- **Business documentation**
- Strategize
- Visio
- Excellent verbal and written communication skills



Windows Developer

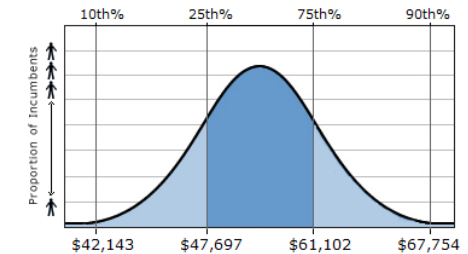
\$40k - \$95k

- **C# / VB.NET**
- SQL Server 2005 / 2008
- LINQ
- **AGILE - SCRUM**
- Business documentation
- Strategize
- Visio
- Excellent verbal and written communication skills

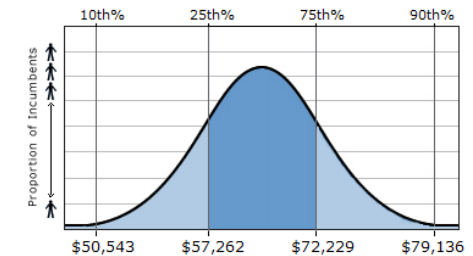
Increases salary dramatically (\$125k):

- *Windows Presentation Foundation*
- *Windows Communication Foundation*

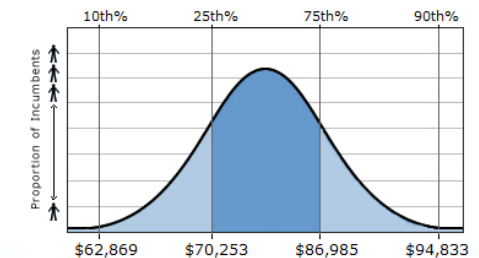
Programmer I - U.S. National Averages



Programmer II - U.S. National Averages



Programmer III - U.S. National Averages



Developer Cross-Roads

- Web
- Windows
- Can I have both?

Web

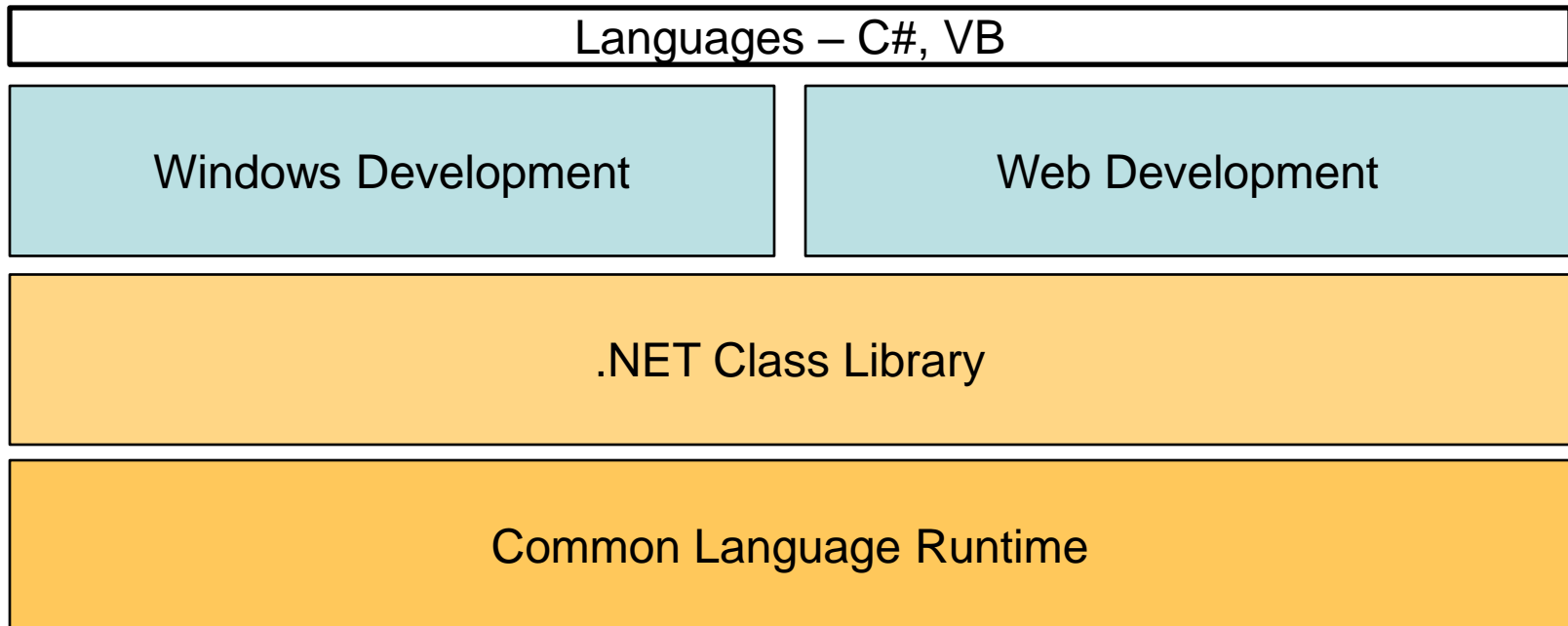
- Client / Server
- Globally accessible
- Cross browser / cross platform
 - Viewable on Mac's
- No access to local resources
- Central location
- Easy deployment
- Browsers interpret CSS differently
 - Use a tool such as **Expression Web SuperPreview**

Windows

- Installed locally on a client machine
- .NET Framework needs to be installed
- Each machine has its own installation
- Updates and enhancements are harder to implement than the web
- Access to local resources
- Fast & Responsive
- Intranet

Can I have both?

- Fortunately, in .NET we don't care (that much)
- C# / VB.NET share common libraries both windows and web.



Want to learn more? (benchmarklearning.com)

- Microsoft® Visual Studio 2008/ALM Hands-On Lab **\$39** (.NET Programming Exp. Needed)
- [Programming with C#.NET 2008](#)
March 22nd
- [C# .NET 2008 / ASP.NET 3.5 Bootcamp](#)
March 29th
- [ASP.NET \(2310\)](#)
March 1st

Resources

- Benchmark Learning Education / Career Guiding
<http://www.benchmarklearning.com>
- Brian Lockwood Blog – Additional Resources
<http://www.brianlockwood.info>

Thank You

- Talk to us tonight about your career.
- We have educators and authors here tonight to answer your questions on .NET, SQL & Sharepoint
- Have a wonderful evening

Kind regards,

Brian Lockwood – Lead .NET Educator