

Microsoft Silverlight

(2 Days)

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Microsoft Silverlight (CTI 4046)

Microsoft's Silverlight is a new client-side web technology that enables the implementation of visually stunning web applications that depend only on a small, easy-to-install plug-in that works in browsers for both Windows and Macintosh. This course provides the programmer with a thorough foundation in Silverlight 1.0.

Prerequisites: A good working knowledge of web application development using HTML and JavaScript. Knowledge of ASP.NET and the .NET Framework is not required.

Minimum software requirements: PC running Windows or MAC OS; Internet Explorer, Firefox or Safari; Silverlight plug-in and SDK. Windows XP with Service Pack 2. Visual Studio 2005 suggested for editing HTML and XAML files, but not required.

Minimum hardware requirements for all machines: Pentium 1GHz or equivalent CPU; 512 Mb RAM; at least 4 GB free hard disk space before installation; Internet access.

Microsoft PowerPoint and Internet access on instructor's workstation for presentation purposes.

Module 1: Introduction to Silverlight

- The Silverlight Plug-In
- The Silverlight SDK
- Using the Silverlight Control

Module 2: Using XAML

- Windows Presentation Framework (WPF)
- Extensible Application Markup Language (XAML)
- Canvas
- Elements and Attributes
- Property Elements
- Type Converters
- Content Property
- Collections
- Attached Properties
- XAML and JavaScript
- Creating XAML Documents Dynamically

Module 3: Shapes and Lines

- Rectangles
- Ellipses
- Polygons
- Lines and Polylines
- Curves
- Paths
- Geometries
- Strokes

Module 4: Text and Fonts

- TextBlock
- Fonts
- Run
- LineBreak

Module 5: Brushes and Images

- Color and Opacity
- SolidColorBrush
- LinearGradientBrush
- RadialGradientBrush
- Image
- ImageBrush

Module 6: Positioning and Transforms

- Positioning Elements
- Z-Order
- Clipping
- Translate Transform
- Rotate Transform
- Scale Transform
- Skew Transform
- Combining Transforms

Module 7: Handling Events

- Event Handlers
- Mouse Events
- Plug-In Events
- Optional Plug-In Information
- Rubber Band Drawing
- Drag and Drop
- Bubbled Events

Module 8: Advanced Features

- Animation
- On-Demand Downloading
- Video and Audio

Appendix A. Learning Resources