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## XAML and Expression Blend Fundamentals

(3 days)

### Course overview

XAML is the Extensible Application Markup Language, an XML grammar for creating Windows Presentation Foundation (WPF), Silverlight, and Windows mobile user interfaces. You can create XAML UIs using Visual Studio, Expression Blend, or a combination of both. This course will get you up to speed quickly with XAML and Expression Blend. You'll learn about the subtle nuances of XAML grammar, and see how to create great XAML UIs using the Microsoft Expression Studio family of tools.

### What you'll learn

- Understanding XAML syntax
- Working with media
- Using resources, styles, and triggers
- Creating user interface effects
- Defining control templates
- Data binding
- Defining attached behaviours
- Prototyping Applications using SketchFlow

### Prerequisites

- Familiarity with XML and UI development

### Course details

- **Getting Started with XAML Development:** Introduction to XAML; Creating a WPF application; Creating a Silverlight application; Creating a mobile application; Getting to know the Visual Studio and Expression Blend IDEs
- **Creating a XAML-Based User Interface:** Overview of controls available; Adding simple controls to a page; Using grids and other rich controls
- **Defining Vector Graphics:** Overview of vector graphics; Creating vector graphics using Expression Design; Importing vector graphics into Expression Blend
- **Understanding the Development Process:** Hosting pages; App.xaml; Debugging; URL management
- **Working with Media:** Overview of audio and video support; Working with media files with XAML
- **Resources, Styles, and Triggers:** Logical resources; Defining styles; Style inheritance; Using triggers

- [Control Templates and Behaviors](#): Overview of control templates; Defining control templates for controls; Overview of behaviors; Defining and using behaviors
- [Animations, Transformations, and Visual States](#): Overview of animations, transformations, and visual states; Creating animations, transformations, and visual states in Expression Blend
- [Data Binding](#): Concepts and terminology; Binding a data source to a control; Binding to a collection; Defining data templates
- [Prototyping Applications using SketchFlow](#): Overview of SketchFlow; Using SketchFlow to create a prototype application; Reviewing customer feedback