

WPF Training Syllabus

Introduction

1. What is WPF
2. Goals, Benefits & Drawbacks
3. First WPF Application
4. Types of WPF Application (Windows Based and Browser Based)
5. WPF Architecture Content Model
6. Versions of WPF
7. XAML Extensible Application Markup Language.
 1. Overview
 2. Advantage
 3. XAML vs Code
 4. Properties and Elements
 5. Implicit Type Conversion
 6. Markup Extensions
 7. Namespaces

Controls & Menus

1. Content Controls: Button, CheckBox, RadioButton, RepeatButton, ToggleButton, ToolTip, Expander, GroupBox
2. Text Controls: TextBox, TextBlock, RichTextBox, PasswordBox, Label
3. List Controls: ComboBox, ListBox, StatusBar, TabControl, Toolbar, TreeView, ListView, Menu
4. Shapes Control: Rectangle, Ellipse, Line, Polyline, Polygon
5. Media Controls: Image, InkCanvas, ViewBox, MediaElement, WebBrowser
 1. Windows Forms Host: NotifyIcon, DateTimePicker,
6. Misc Controls: Progress Bar, Slider, ScrollBar, Separator, GridSplitter

Layout Controls

1. Border
2. Canvas
3. DockPanel
4. Grid
5. StackPanel
6. UniformGrid
7. WrapPanel
8. Viewbox
9. ScrollViewer
10. Common Layout Properties

Input

1. Mouse Events
2. Keyboard Input

3. Routed Events

Styles

1. Inline Styles
2. Named Styles
3. Element Typed Styles
4. Triggers
5. Logical and Visual Trees

Resources & Themes

1. Creating and using Resources
2. Resources and Styles
3. Pens
4. Brush
5. Fonts
6. Window Level and Application Level

Data binding

1. Simple Data Binding
2. Binding to List Data
3. Data Source Providers
4. Master Details Binding

Control Templates

1. Logical and Visual trees
2. Data Driven UI

Documents

1. Fixed Documents
2. Flow Documents

Navigation-Based Application

1. Page
2. Hyperlink Navigation
3. Navigation Service
4. Frame

Animation and Media

1. Animation Fundamentals
2. Timelines
3. Keyframe Animations

4. Storyboard
5. Animation without Storyboard
6. Transformation and Effects
7. Three Dimensional Drawing

XBAP Application

1. XBAP Application