



MODULE 07 DEPENDENCY PROPERTIES

MODULE TOPICS

Dependency Property Functionality Defining a Dependency Property
Registering a Dependency Property
Property Wrappers
Property Value Inheritance
Change Notification

DEPENDENCY PROPERTY FUNCTIONALITY

- Property Value
 Inheritance
- Change Notification
- Enhanced Data Binding
- Resources
- Styles
- Animations

DEFINING A DEPENDENCY PROPERTY

public static readonly DependencyProperty HighlightProperty;

FRAMEWORK PROPERTY METADATA

REGISTERING A DEPENDENCY PROPERTY

PROPERTY WRAPPERS

```
public Boolean Highlight
{
    get { return (Boolean)GetValue(HighlightProperty); }
    set { SetValue(HighlightProperty, value); }
}
```

PROPERTY VALUE INHERITANCE

- Some Dependency Properties support value inheritance
- This allows a property value to inherit down from a parent element to a child
- Example is setting font properties on a Window, and child elements using those values

PROPERTY VALUE PRECEDENCE

- 1. Default value
- 2. Inherited value
- 3. Value from a style
- 4. Local value

PROPERTY VALUE CHANGE NOTIFICATIONS

- Some Dependency Properties have events that are raised when the property value changes
- The event names end in Changed
 - Examples: DataContextChanged, IsEnabledChanged, IsVisibleChanged

ANY QUESTIONS?