Events and Commands

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Outline

- Understanding Routed Events
- Custom Routed Events
- Understanding Routed Commands
- Custom Routed Commands

Understanding Routed Events

- What are they?
- Routing Strategies
 - Direct
 - Bubbling
 - Tunneling
- Why use them?
 - Any UIElement can be a listener
 - Common handlers
 - Visual Tree communication
 - Event Setter and Event Trigger

Custom Routed Events

- Register your event
- Choose your Routing Strategy
- Provide add and remove CLR assessors
- Raise your event
- Yes, you can have custom RoutedEventArgs

Understanding Routed Commands

- What are they?
 - □ ICommand Execute/CanExecute
- Execute/CanExecute have no logic
- Commands that traverse the element tree
- Why use them?
 - Decouple
 - Reduce repetitive code
 - Logic can control enabled state of control
 - Associate input gestures

Custom Routed Commands

Custom RoutedCommand

- Define/Instantiate
- ExecuteRoutedEventHandler
- CanExecuteRoutedEventHandler
- CommandBinding

ICommandSource - Support MVVM

- Command
- CommandParameter
- CommandTarget

Summary

- Understanding Routed Events
- Custom Routed Events
- Understanding Routed Commands
- Custom Routed Commands