# **Handling Events**

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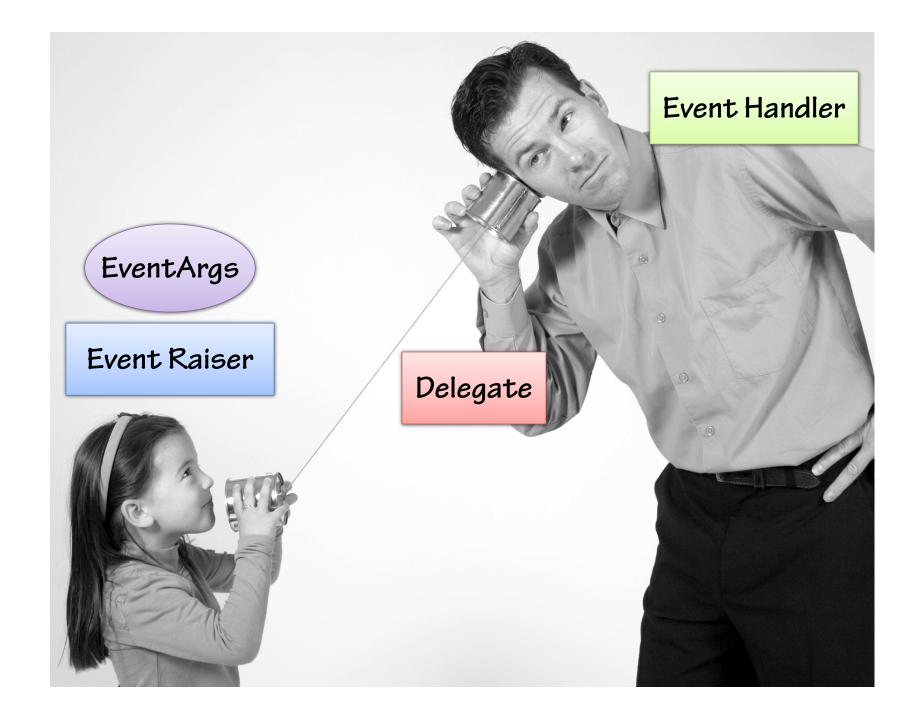
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Instantiating
Delegates and
Handling Events

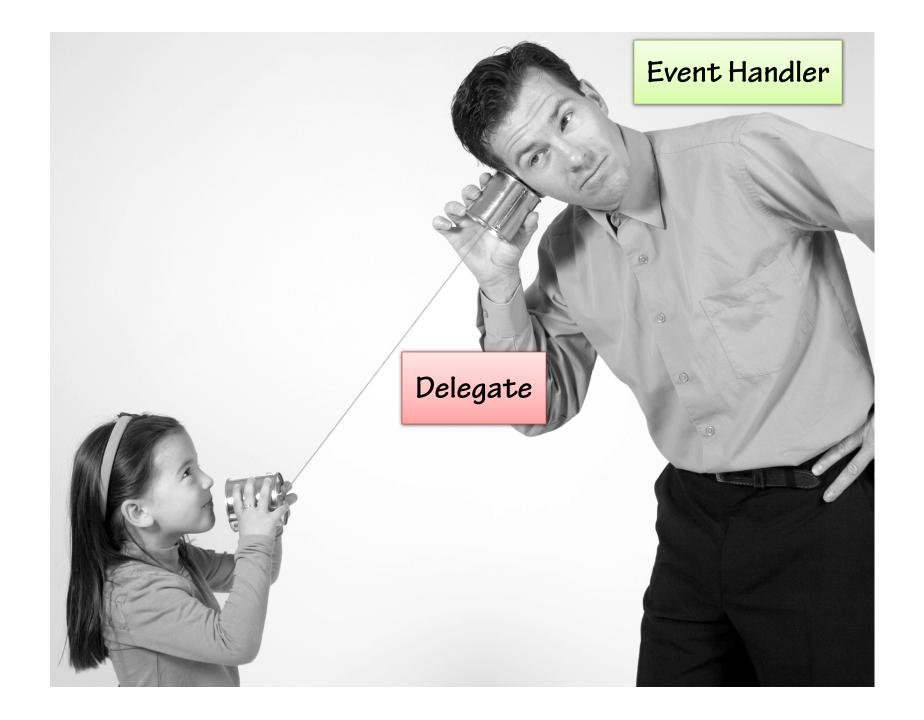
Delegate Inference

Using Anonymous Methods



# Instantiating Delegates and Handling Events





### **Delegate and Handler Method Parameters**

The delegate signature must be mimicked by a handler method:



## **Defining and Attaching Event Handlers**

The += operator is used to attach an event to an event handler:

# **Delegate Inference**



#### **Delegate Inference**

The += operator is used to attach an event to an event handler:

# **Using Anonymous Methods**



#### **Attaching Event Handlers Directly to Events**

What if you want to attach an event handler directly to an event?

```
var worker = new Worker();
worker.WorkPerformed += //Attach event handler here

void worker_WorkPerformed(object sender, WorkPerformedEventArgs e)
{
    Console.WriteLine(e.Hours.ToString());
}
```

## **Anonymous Methods**

- Anonymous methods allow event handler code to be hooked directly to an event
- Anonymous methods are defined using the delegate keyword:

## **Summary**

 To listen to an event you must construct a delegate and add it to the invocation list

 The C# compiler provides "delegate inference" functionality

 Event handler methods can be attached directly to events