### **Essential Knockout and JavaScript Tips**

Round 7: Event Delegation and Performance

John Papa http://johnpapa.net Twitter: @john\_papa





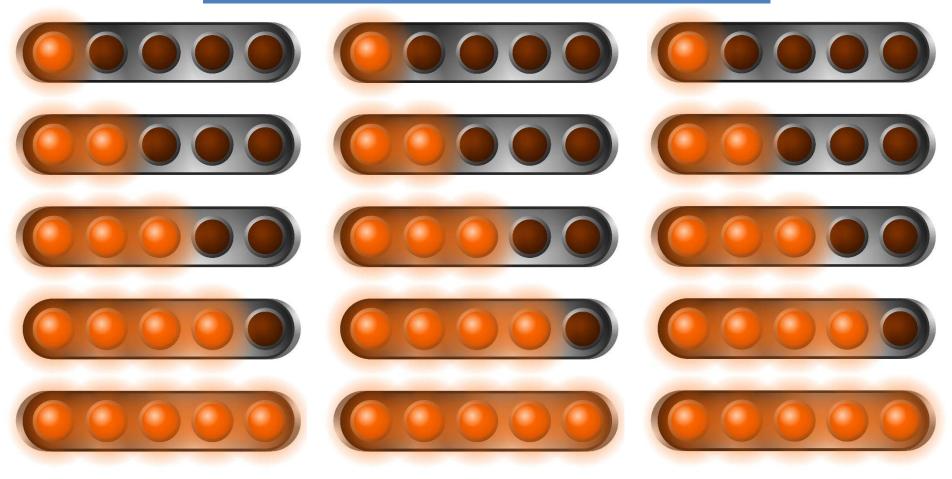
# **Events and Performance**



### **Handling Events**

Handling 1 Event Is Quick and Easy

Handling Many Events Requires Planning



### **Knockout Click Binding**

Event Handler Repeated for Every Person

```
vm.selectPerson = function (p) {
    // Select the person
};
```

## **jQuery Click Handler**

Still an Event Handler for Every Person

```
$('#people li h3').click(function () {
    var context = ko.contextFor(this);
    if (context) {
        context.$root.selectPerson(context.$data);
    }
});
```

### **Event Handler with Delegation**

#### 1 Event Handler

```
$('#people').on('click', 'li h3', function () {
    var context = ko.contextFor(this);
    if (context) {
        context.$root.selectPerson(context.$data);
    }
});
```

### **Separation of Concerns**

http://jpapa.me/kotipsdelegatedeventhandler

Want to Avoid jQuery in the ViewModel

Coupled to the DOM
Structure

Fragile

Let's Use a Binding Handler

### **Binding Handler with Delegation**

```
// Link to the delegatedHandler Binding Handler.
// No additional code needed in your ViewModels!
```

# **Harnessing Events**



### Recap

Single Events are Fine Using a Standard Handler Event
Delegation
Can Improve
Performance

Maintain
Separation of
Concerns

Binding
Handler can
Wrap
Delegation

## **Event Delegation Resources**

