

# Advanced ASP.NET MVC 3

Brad Wilson

# Stateful Filters

- Don't store state directly in filters
  - Global filters are singletons
  - Filter attributes are (effectively) singletons

# Stateful Filters

- Per-Application (Application)
- Per-Session (Session)
- Per-Request (HttpContext.Items)
- Per-User (database)

Demo

# Stateful Filters

# Custom Validation

- Unobtrusive Ajax and Validation
  - Targets jQuery and jQuery Validate
- Traditional Ajax and Validation
  - Targets ASP.NET Ajax
- Pluggable, in both cases

# Custom Validation

- New DataAnnotations 4 support
  - Validate with ValidationContext
  - IValidatableObject
- Client-side validation without registration
  - IClientValidatable

**Demo**

# Custom Validation

# Non-Class Models

- Model Metadata
  - “Tell me about this model”
- Model Validation
  - “Given this metadata, how do I validate it?”
- Templates
  - “Given this metadata, how do I display/edit?”



**Demo**

# **Non-Class Models**

# Custom Action Invoker

- Allows you to override...
  - Mapping action names to methods
  - Finding the action filters for an action
  - Determine how to handle return values

**Demo**

# **Custom action invoker**

# Routing Constraints

- Limits route matching
  - Inbound (URLs to handlers)
  - Outbound (route values to URLs)
- Regular expressions
- Implementations of `IRouteConstraint`

Demo

# Routing Constraints

# Async Controller

- Better scale through async operations
  - If your operations aren't async, this won't help
- Write your action method in two halves
  - void XxxAsync(...)
  - ActionResult XxxCompleted(...)
- Use AsyncManager to manage operations

**Demo**

# **Async Controller**

# Thank You!

<http://spkr8.com/t/5541>

<http://bit.ly/bradstalks>