

# Implementing an API in ASP.NET Web API

Module 6: Web API 2

Shawn Wildermuth  
Wilder Minds LLC  
<http://wilder minds.com>



**pluralsight**   
hardcore developer training

# Agenda

- **Web API 2**
  - What is Web API 2
  - Upgrading to Web API 2
  - Attribute Routing
  - CORS in Verison 2
  - IHttpActionResult

# ASP.NET Web API 2

- **Maturation of the Web API Stack**
  - Coincides with MVC5 release
  - Supported on VS2012 and VS2013
  - Requires NET 4.5 (used to be 4.0)
  - Introduces several new features

**Converting a Project to Web API 2**

**Demo**

**Attribute Routing Basics**

**Demo**

**Attribute Routing Parameters**

**Demo**

Improving Attribute Routing

**Demo**

**Attribute Routing Constraints**

**Demo**



**Attribute Routing Names**

**Demo**

Advanced Routing

**Demo**

**Cross-Origin Resource Sharing Support**

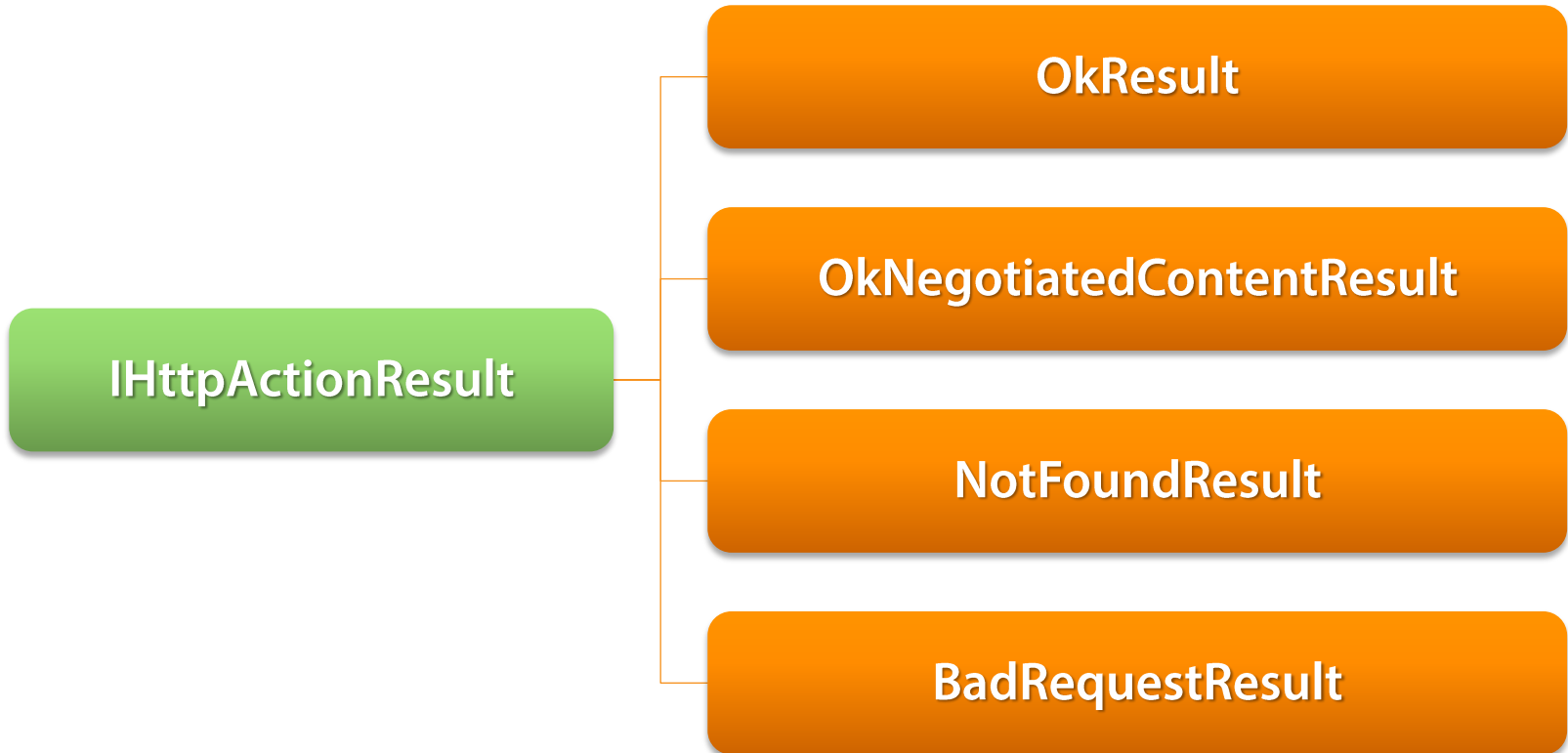
**Demo**

# IHttpActionResult

- **Standard Way of Constructing Common Results**
  - Common Replacement for HttpResponseMessage
  - Factory Pattern

```
public interface IHttpActionResult
{
    Task<HttpResponseMessage>
        ExecuteAsync(CancellationToken cancellationToken);
}
```

# IHttpActionResult



# IHttpActionResult

## ApiController

- **Ok()**
- **Ok<T>(T)**
- **BadRequest()**
- **NotFound()**
- **Etc.**

**IHttpActionResult**

**Demo**

# Summary

## ■ Web API 2

- The Framework is maturing nicely!
- Using Attribute Routes is simple and easy
- But Attribute Routes are treated differently
- The new CORS support simplifies what is becoming a major use-case
- IHttpActionResult can make your code more readable and testable
- Building Your Own IHttpActionResultResults can help solve common problems