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# Professional **ASP.NET MVC 5**

Foreword by Scott Hanselman

Jon Galloway, Brad Wilson, K. Scott Allen, David Matson



# PROFESSIONAL ASP.NET MVC 5

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PROFESSIONAL

# **ASP.NET MVC 5**



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Jon Galloway  
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David Matson



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*To my wife, Rachel, my daughters, Rosemary, Esther,  
and Ellie, and to you reading this book. Enjoy!*

— JON GALLOWAY

*To Potten on Potomac.*

— K. SCOTT ALLEN



# ABOUT THE AUTHORS

**JON GALLOWAY** works at Microsoft as a Technical Evangelist focused on ASP.NET and Azure. He writes samples and tutorials like the MVC Music Store and is a frequent speaker at web conferences and international Web Camps events. Jon's been doing professional web development since 1998, including high scale applications in financial, entertainment and healthcare analytics. He's part of the Herding Code podcast (<http://herdingcode.com>), blogs at <http://weblogs.asp.net/jgalloway>, and twitters as @jongalloway. He lives in San Diego with his wife, three daughters, and a bunch of avocado trees.

**BRAD WILSON** has been a software professional for more than 20 years, working as a consultant, developer, team lead, architect, and CTO. During his 7½ year tenure at Microsoft, he worked on both ASP.NET MVC and ASP.NET Web API. Today, he is Technical Director at CenturyLink Cloud, working on their worldwide Infrastructure-as-a-Service and cloud management platform. He is also an active open source contributor to xUnit.net and ElasticLINQ.

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**PETER MOURFIELD** is the Director of Software Engineering for TaxSlayer where he is responsible for ensuring that the best software processes, architectures, and techniques are used. Peter speaks at software community events; is a member of ASP and Azure Insiders; and has contributed to a number of open source projects including NerdDinner and MvvmCross.



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— JON GALLOWAY



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# FOREWORD

I'm thrilled to introduce this book covering the latest release of ASP.NET MVC, written by an outstanding team of authors. They are my friends, but more importantly, they are fantastic technologists.

Jon Galloway is a Technical Evangelist at Microsoft focused on Azure and ASP.NET. In that role, he's had the opportunity to work with thousands of developers who are both new to and experienced with ASP.NET MVC. He's the author of the MVC Music Store tutorial, which has helped hundreds of thousands of new developers write their first ASP.NET MVC applications. His interactions with the diverse ASP.NET community give him some great insights on how developers can begin, learn, and master ASP.NET MVC.

Brad Wilson is not only my favorite skeptic, but helped build several versions of ASP.NET MVC during his time at Microsoft. From Dynamic Data to Data Annotations to Testing and more, there's no end to Brad's knowledge as a programmer. He's worked on many open source projects, such as Xunit .NET, and continues to push people both inside and outside Microsoft towards the light.

Phil Haack was the Program Manager for ASP.NET MVC from the very start. With a background rooted in community and open source, I count him not only as an amazing technologist but also a close friend. While at Microsoft, Phil also worked on a new .NET Package Manager called NuGet.

David Matson joins the author team for this release. He's a senior developer at Microsoft, and he brings a lot of detailed knowledge of the new features in ASP.NET MVC and Web API, because he helped build them. David brings a lot of in-depth technical knowledge and guidance to this release.

And last but not least, K. Scott Allen rounds out the group, not just because of his wise decision to use his middle name to sound smarter, but also because he brings his experience and wisdom as a world-renowned trainer. Scott Allen is a member of the Pluralsight technical staff and has worked on websites for Fortune 50 companies, as well as consulted with startups. He is kind, thoughtful, respected, and above all, knows his stuff backwards and forwards.

These fellows have teamed up to take this ASP.NET MVC 5 book to the next level, as the ASP.NET web development platform continues to grow. The platform currently is used by millions of developers worldwide. A vibrant community supports the platform, both online and offline; the online forums at [www.asp.net](http://www.asp.net) average thousands of questions and answers a day.

ASP.NET and ASP.NET MVC 5 power news sites, online retail stores, and perhaps your favorite social networking site. Your local sports team, book club, or blog uses ASP.NET MVC 5 as well.

When it was introduced, ASP.NET MVC broke a lot of ground. Although the pattern was old, it was new to many in the existing ASP.NET community; it walked a delicate line between productivity and control, power and flexibility. Today, to me, ASP.NET MVC 5 represents choice — your choice of language, your choice of frameworks, your choice of open source libraries, your choice of patterns. Everything is pluggable. MVC 5 epitomizes absolute control of your environment — if you

like something, use it; if you don't like something, change it. You can unit test how you want, create components as you want, and use your choice of JavaScript framework.

Perhaps the most exciting update in ASP.NET MVC 5 is the introduction of One ASP.NET. With this release, you can easily develop hybrid applications and share code between ASP.NET MVC and Web Forms. ASP.NET MVC runs on top of common ASP.NET core components like ASP.NET Identity, ASP.NET Scaffolding, and the Visual Studio New Project experience. This means that you can leverage your ASP.NET skills across the platform, be it ASP.NET MVC, Web Forms, Web Pages, Web API, or SignalR. These updates are designed with extensibility points to share code and libraries with alternative frameworks like NancyFx and ServiceStack.

I encourage you to visit [www.asp.net/mvc](http://www.asp.net/mvc) for fresh content, new samples, videos, and tutorials.

We all hope this book, and the knowledge within, represents the next step for you in your mastery of ASP.NET MVC 5.

— SCOTT HANSELMAN  
*Principal Community Architect*  
*Azure Web Team*  
*Microsoft*