May 18-21 2015

FAIRMONT SCOTTSDALE PRINCESS
SCOTTSDALE, AZ

CO-LOCATED WITH
open web conference

STEVEN GUGGENHEIMER
Corporate Vice President, Developer & Platform Evangelism, Microsoft

SCOTT HANSELMAN
Principal Community Architect for Web Platform and Tools, Microsoft

RICHARD CAMPBELL
Co-Host, .NET Rocks!

KRISS LANKFORD
Sr. Product Manager, Visual Studio ALM Solution, Microsoft

SCOTT GUTHRIE
Executive Vice President, Microsoft Cloud & Enterprise Group, Microsoft

KIMBERLY L. TRIPP
President/Founder, SQLskills.com

REGISTRATION FOR A "PACKAGE" AND RECEIVE A CHOICE OF XBOX ONE, MICROSOFT BAND, HOTEL GIFT CARD OR TOSHIBA ENCORE 2 WRITE TABLET BASED ON THE PACKAGE YOU CHOOSE. SEE WEBSITE FOR DETAILS!

JEREMY THAKE
Technical Product Manager, Microsoft

BRENT OZAR
Brent Ozar Unlimited

DAN HOLME
Co-founder, IT Unity

If your passion is technology, take it to the next level!

If your passion is technology, take it to the next level!
**Accessibility to Co-Located Events**

- **MOR ROI**
- Every attendee is a VIP and part of our fast growing community!

**Early Bird**

Early Bird "Package" attendees receive a choice of XBOX ONE, MICROSOFT BAND, HOTEL GIFT CARD or TOSHIBA ENCORE 2 WRITE TABLET!

**Schedule**

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<tr>
<th>Day</th>
<th>Time</th>
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<tr>
<td><strong>SUNDAY, MAY 17, 2015</strong></td>
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<tr>
<td>9:00am – 4:00pm</td>
<td>Pre-Pre-Conference Workshops</td>
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<td><strong>MONDAY, MAY 18, 2015</strong></td>
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<td>7:30am – 9:00am</td>
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<td>Pre-Conference Workshops</td>
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<td>Keynote</td>
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<td>Coffee Break (Exhibit Area opens)</td>
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<td>Exhibit Area open/giveaways</td>
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<td>5:00pm – 7:00pm</td>
<td>Wild West Cookout</td>
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**Access to Co-Located Events**

- Get your questions answered and build industry relationships!

**Engage**

Direct interaction with your favorite Microsoft executives giving you the insider scoop on what’s coming.

**EARLY BIRD**

Early Bird “Package” attendees receive a choice of XBOX ONE, MICROSOFT BAND, HOTEL GIFT CARD or TOSHIBA ENCORE 2 WRITE TABLET!

**When the Sun Goes Down... JOIN US!**

Tuesday’s Wild West cookout party at Crown P Corral Wednesday night’s Internet of Things hosted by Microsoft or SQL Server After Dark

**Register Now**

“Package” attendees who register early will receive a choice of XBOX ONE, Microsoft Band, Hotel gift card or Toshiba Encore 2 Write tablet based on the package you choose. See website for details!

**Group Discounts Available**

Call at 203.264.8220 9-5 EST for more than three people.

**Group Discounts Available**

- 10% to 15% for groups of three or more

**Your Conference Registration Includes**

- Three continental breakfasts, three lunches, breaks, reception, T-shirt, conference backpack, evening activities and access to all sessions in co-located events. Workshop attendees only get lunch on pre- and post-con days.

**Keynotes & General Session Speakers**

- Scott Guthrie
- Steven Goguenheimer
- Scott Hanselman
- Kimberly Tripp
- Jeremy Thake

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**General Session Speakers**

- Dan Holme
- Jay Schmelzler
- Shep Sheppard
- Richard Campbell
- Carl Franklin

**Sponsors**

Microsoft, Visual Studio, ASP.NET, Azure, SharePoint, Office 365, Microsoft SQL Server, .NET Rocks!, CODE, SQL Server, SQL Skills, ComponentOne, SOlliance, TEXTCONTROL, APPDYNAMICS, Stackify, Unity, PDSA, SSG, K6 Open, and many more!
KEYNOTE What Does an Open Source Microsoft Web Platform Look Like?
Scott Hanselman

SignallR All the Things!
Javier Lozano

Ever wondered how hard it is to add real-time eventing to your ASP.NET application? SignallR is a new library that makes bi-directional communication easy and fun. In this session, we'll cover the features and approaches SignallR offers on both client and server sides. If you're interested in adding real-time eventing to your applications today, you don't want to miss this session.

Azure for ASP.NET Developers
Javier Lozano

Microsoft Azure is a simple, flexible, and open platform that makes developing Web applications extremely easy. In this session, we'll cover the features, practices, and patterns ASP.NET developers should consider when targeting the Azure platform. If you're curious about how you can take your applications, current and future, to the next level with ease, you won't want to miss this session.

Introduction to Twitter Bootstrap Components
Joe Guadagno

Twitter Bootstrap is a sleek, intuitive, and powerful mobile first front-end framework for faster and easier web development. Let's cover the features, practices, and patterns that made Bootstrap so popular.

Databinding and Data Validation Improvements in ASP.NET 4.5
Web Forms
Joe Guadagno

In this session, we will walk through all of the new features added to ASP.NET 4.5 with respect to data binding and control validation. In ASP.NET 4.5, Web Forms includes some improvements for working with data. The first improvement is strongly typed data controls. The second improvement is model binding, which extends data binding in ASP.NET Web Forms controls to work with code-focused data access. It incorporates concepts from the ObjectDataSource control and from model binding in ASP.NET MVC.

Introduction to ASP.NET 5
Scott Hanselman

ASP.NET 5 is a landmark release in many ways. It's full open source from the start, it's cross-platform and supported on Windows, Mac, and Linux. It includes contributions from the community and is being developed in the open on GitHub. ASP.NET 5 includes lots of great updates as well like Taghelpers, the unification of MVC and Web API, the componentization of the .NET Framework, dependency injection built in, an all-new project system, and deep client-side tooling for things like Bower, Gulp, and Grunt. This is an exciting time for the Microsoft web platform.

Building Custom ASP.NET 5 Commands
Shayne Boyer

Learn how to create custom project commands that can be used cross platform to assist in the development of ASP.NET 5 applications by leveraging NuGet, .NET core assemblies. I will walk you through how to “kmon” was built to reduce the friction of code/compile/debug/refresh when not using Visual Studio as your IDE.

Deep Dive into ASP.NET 5
Damian Edwards

ASP.NET 5 has an all-new project system and cross-platform runtime. In this session we'll dig deep into the whats, hows, and whys of ASP.NET 5. We'll look at how you can deploy your own version of the .NET Framework, how your ASP.NET 5 applications can't be affected by other apps or .NET updates, and explore the depths of new .NET Core. This 300-level talk by the architects of ASP.NET 5 will give you the deep insight you need into this powerful updated framework.

Designing Services for Mobile Apps
Shayne Boyer

Are your current enterprise applications ready for mobile? During this session, we will look at how to evaluate existing systems in your business sector when faced with preparing for a mobile application. You'll get a high-level understanding for creating or leveraging services, data modeling, security and adhering to good mobile practices.

Diving into ECMAScript 6 (ES6)—The Next Version of JavaScript
Dan Wahlin

JavaScript provides a lot of flexibility and power but is certainly lacking in several areas. Fortunately, ECMAScript 6 is on the way and will provide many key features that developers have been wanting for many years. In this session, Dan Wahlin will walk through many of the features provided in ECMAScript 6 such as classes, modules, arrow functions, generators, the role of the let keyword, destructuring, template strings, and more. You'll also see how to take advantage of these new features today—even if you're only supporting ECMAScript 5. By the end of the session, you’ll have a new appreciation for the JavaScript language!

AngularJS Directives by Example
Dan Wahlin

AngularJS provides many built-in directives that can be used to manipulate the DOM, handle events and more, but there will be times when you need to write custom directives. How do you get started? Are directives really as scary as they look at first glance? In this session, Dan Wahlin will provide a step-by-step look at creating custom AngularJS directives and show how to use templates, controllers, the link function, and many other features. You'll also see how custom directives can be used along with other AngularJS features such as $http interceptors and validation. By the end of the session, you’ll realize that directives aren’t quite as scary as they first appear.

React to the Future
Elijah Manor

Interested in learning more about how React can be used to build Web applications? In this session we will briefly unpack the benefits of the Virtual DOM, unpick props/state/mixins, and explain the concepts behind a Flux architecture.

Eliminate JavaScript Code Smells
Elijah Manor

Have you ever written JavaScript that reeked, but you couldn’t quite figure out why? Or have you written code and immediately knew that it wasn’t good, but didn’t know a better way? Your JavaScript may pass ESLint, but that doesn’t mean it’s legit.

“A code smell is a surface indication that usually corresponds to a deeper problem in the system.” — Martin Fowler

Most developers can smell brittle and fragile code a mile away, but it takes time and training to combat against these smells. Code smells scream to be refactored. In this session we will discuss various common smell code snippets and discuss techniques on how we can eliminate and protect against their pungent odors creeping into your codebase.

Let’s Build a Mobile App in 60 Minutes
Todd Anglin

Building mobile apps can be a complex and confusing process, and writing code is just the tip of the iceberg. Mobile app development introduces a host of challenges for debugging, compiling, testing, deploying and ultimately monitoring apps in the wild. Remaining productive requires a workflow that addresses the full scope of the problem. In this demo-heavy session, you’ll learn how to address these challenges and how modern mobile development tools can actually make mobile app development fun!

The HTML5 Mullet: Form Input and Validation
Todd Anglin

Really, it’s the HTML5 reverse mullet. Party in the front, business in the back. Most talk about HTML5 generally revolves around the fun and exciting technologies like Geolocation, Video, and the powerful styling CSS3 brings to the party. But how useful is HTML5 for business apps? HTML5 promises a number of new features in browsers that will make data entry and validation easier for developers and end-users. In this session, you will learn how HTML5 is helping business developers simplify working with data and input validation, and see practical techniques for leveraging these features across all browsers, old and new.

CSS for Developers
Elijah Manor

Okay, so you are a developer. Tell me the truth, does CSS nub you the wrong way? If you are like most developers that I know, then the answer is an overwhelming “YES!” CSS for many developers is a necessary evil that is bloated, confusing, and hard to maintain. Thankfully, with a combination of some modern techniques, tools, and methodologies we can organize and structure our CSS in a way that makes sense and is maintainable. Why not treat our CSS like it’s code?! We will be introducing concepts such as Sass (CSS preprocessor), OOCSS (Object Oriented CSS), SMACS (Scalable and Modular Architectures), BEM (Block Element Modifier), Autoprefixer, Sass Linting, etc… In addition, we will examine some tips, tricks, and techniques that bring back sanity to areas that used to be difficult and hard to understand.

Modern Data Applications with Entity Framework 7
Scott Hunter

Entity Framework 7 has a new leaner architecture and works on any platform. EF7 can be used in Universals apps, Windows Phone apps, and of course, in ASP.NET apps. This new version gives you even more control with new data stores. With support for SQL, SQlite, and Azure Table Storage, your EF code is more powerful and goes farther than ever. The new EF7 is lightweight and extensible, and you’ll learn how to get the most of Entity Framework from the architects themselves in this session.

ASP.NET vNext Unleashed
Javier Lozano

In this session, we will discuss the next generation of the ASP.NET framework and runtime. Find out what’s new and different as well as how your current applications will benefit from moving to the new platform once released. If you’ve read about ASP.NET vNext but haven’t had a chance to play with the alpha bits, this is a session you don’t want to miss.

Check the conference website for the latest information, DEVintersection.com Sessions and speakers are subject to change.

IoT @Night Wednesday, May 20 7:00pm - close
Hands-on IoT, from Data to Knowledge
Presented & facilitated by Doug Seven, Josh Holmes, Ivan Judson
Doug Seven

There's a ton of buzz and hype around the Internet of Things (IoT) but what is it? IoT is another step in the long process of connecting everything to the Internet. Connecting your phone to your thermostat is cute, but IoT offers so much more. It's about connected odors creeping into your codebase.

Once you have a connected 'Thing' you will learn how to write Nitrogen-based applications and services to orchestrate the devices and of course, in ASP.NET apps. This new version gives you even more control with new data stores. With support for SQL, SQlite, and Azure Table Storage, your EF code is more powerful and goes farther than ever. The new EF7 is lightweight and extensible, and you’ll learn how to get the most of Entity Framework from the architects themselves in this session.

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Amazing event with cool things happening in the white spaces.
Scott Hanseman
Extending the Office 365 App Launcher with Your Web Apps
Jeremy Thake
See website for abstract.

Building Node.js Web Sites with Office 365 APIs in Your Web Projects
Andrew Connell
See website for abstract.

Leveraging the Restful CORS Office 365 APIs in Your Web Projects
Andrew Connell
See website for abstract.

Building AngularJS Using Office 365
Scott Hillier
See website for abstract.

ASP.NET Project Scaffolding with Yeoman
Shayne Boyer
Developing ASP.NET 5 applications using Visual Studio 2015 gives you a rich IDE experience, however, with ASP.NET now being cross platform, that development IDE is not afforded to us on a Mac. In this session, I will walk through project creation, adding additional ASP.NET items using Yeoman generators and editing the applications in Sublime and Brackets.

Angular Forms and Validation
Deborah Kurata
It’s not enough for a data entry form just to collect data. It should facilitate entry of relevant, accurate, and valid data. And it should help prevent entry of incorrect, invalid, and erroneous data. This session covers how to build Angular forms and implement data entry validation. The demonstrations include simple validation, displaying validation messages, building custom validators, and working with asynchronous validators.

Node Basics
Sam Artioli
Learn the basics of Node.js. What was it designed for? When and where should I use it? In this session, Sam Artioli will give an overview of the language and tools to get you started down the right path with Node. We will talk about Node’s event-driven architecture and non-blocking I/O. We will also walk through installing Node.js & npm, and building a basic web server. As an added bonus, we will take a look at using Node.js as a cross-platform scripting tool.

ASP Web API vNext and BreezeJS
Ward Bell
The new Web API for ASP vNext is almost here ... and so is your next SPA (Single Page Application) project. Learn how the two come together to meet your app’s data management needs ...

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with Breeze as a bridge. Breeze helps your SPA query and save through Web API controllers, cache entities, track changes, validate user input, navigate among related entities, and even work off line. We’ll walk through a little Entity Framework to round out the picture. Come with your code hat screwed on.

Building IoT Solutions with Nitrogen.js
Doug Seven
Nitrogen.js (http://nitrogen.io) is an open source framework, written in JavaScript, leveraging Node.js, that connects devices together into applications. In this session, we’ll present a basic Nitrogen tutorial that takes you through the process of building a ‘thing’ and connecting it to the Internet – creating your own Internet of Things). This tutorial will begin with building a device simulator in JavaScript and connecting it to the public Nitrogen web service. You will learn how to build a physical device and connect it to the public Nitrogen web service. You will then learn how to write Nitrogen-based applications and services to orchestrate the devices that have been created. Hands-on programming with JavaScript and Node.js is suggested before attending this session.

Mining Knowledge from the IoT
Doug Seven
Once the Internet of Things (IoT) has been realized, real possibilities emerge to discover knowledge and insights that aren’t easily accessible with small quantities of data. In this session, you will get an overview of the higher level services that data scientists use to extract knowledge from data. You will learn how to use Hadoop (HDFS) to process data so that it can be filtered, summarized, privatized, etc. – useful operations for doing statistical analysis of large quantities of data. You will also learn how to use AzureML to build machine learning models that can be used to make predictions and/or recommendations. With these tools, knowledge and insights can be extracted from large quantities of data to provide strategic value for business and product development. A basic knowledge of statistics and machine learning is helpful, but not required for this session.

Building Rich Data Web APIs with ASP.NET OData
Brian Noyes
ASP.NET Web API makes it really easy to write Web APIs or HTTP services of any flavor. But the vast majority of remote service calls needs for client and web applications is to perform CRUD operations – retrieve data, work with it on the client side, and send changes back to the server. The OData protocol standardizes how to do this, and ASP.NET Web API makes it easy and powerful to implement OData services. You’ll see how you can just use one part of OData – the query syntax – to express rich client queries from the client side that get executed server side without needing to use any other part of the OData spec. Or you can go full OData and use the formatting of OData as well as the query syntax and expose CRUD services that will be standardized and interoperable on almost every relevant platform out there today.

Objectives
• Learn how to support rich client queries using OData query syntax and ASP.NET Web APIs
• Learn how to support full OData querying, updating, and message formatting with ASP.NET Web API
• Learn why OData makes a compelling approach for CRUD-centric web services

Top 10 Reasons to CSS Preprocess
Todd Anglin
If you work with CSS and you are not yet using a CSS preprocess- sor, you are missing out. CSS preprocessors, like LESS and SASS, give developers and designers incredible new language features that make the task of writing and maintaining modern CSS much more productive, all while continuing to produce CSS that works in ANY browser. In this session, you’ll learn the basics of CSS pre- processors, how to choose a preprocessors framework, and the top 10 preprocessor capabilities that make it a must for any project, new or old.

ASP.NET 5 Without Assumptions
Michael Palermo
Although ASP.NET 5 is a significant redesign, what if your experience with ASP.NET is already limited? Perhaps you dabbled in ASP.NET years ago, or you are a strong web developer experienced in other platforms. If what you want is an accelerated path into ASP.NET 5 that doesn’t assume you already know key terms/concepts, this session is for you! Presentation is primarily a dem- onstration of how to quickly get started with core features (no pun intended) – and concludes with recommended resources to keep the momentum going.

Angular Routing
Deborah Kurata
An Angular application often displays a view for each of the many business operations including selection, review, and editing. And as soon as you have more than one view, you need a way to navi- gate between them. This session demonstrates how to define, configure, and navigate Angular routes to display multiple views. First, we look at the available routing frameworks: ngRoute and UI Router, each with their own approach to routing. Then we dive deeper with step-by-step demonstrations of implementing rout- ing based on application state.

Node as a Web API
Sam Artioli
Join Sam Artioli as he walks through Express and Restify, two popular web frameworks for Node.js. We will learn to identify which situations call for which framework. We will learn about middle- ware and how to take advantage of the vast amount of modules available in the community. The session will then focus on using the Request module and Redis to create a caching layer inside of Node. Finally, we will take a look at some advanced debugging and logging in Node.

Ionic
Sam Artioli
One code base to rule them all! Join Sam Artioli in taking a look at Ionic, a mobile application framework written in Angular.js and built on top of Cordova (a.k.a PhoneGap). In this session, we will walk through the basics of getting Ionic installed, adding and building platforms, and adding an Angular service to our application. By the end of this session, you will be ready to attack your next mobile project with Ionic, launching iOS and Android at the same time!

Working with Data in an Angular Application
Deborah Kurata
The data required for a client-side Web application is often pro- vided by a back-end Web service. So an Angular application must communicate with that Web service to retrieve and update data. The primary objectives of this session are to:
• Understand how a client-side Web application retrieves data
• Evaluate the existing Angular services for calling a Web service ($http and $resource)
• Build a common module and custom Angular service as a reusable data access component
• Fake it and retrieve data without the Web service

Visual Studio for Web Developers
Damian Edwards
Visual Studio is known for its rich and deep tooling for Web develop- ment. A best in class CSS editor combines with fantastic HTML5 support, and power JavaScript IntelliSense to support your most advanced web applications. We’ll learn about the latest updates for IntelliSense for Angular and other modern web frameworks. We’ll see how the now fully extensible editors make coding with Grunt, Gulp, Bower, and of course, the new ASP.NET project sys- tem, a joy. To top it all off, we’ll dig into BrowserLink technology and see how it connects the best IDEs with the best browsers.

Building ASP.NET with Azure
Scott Hunter
Great ASP.NET apps shine with a great cloud platform underneath them. We’ll dig into practical ways you can take your ASP.NET ap- plications to the next level of functionality and scale on Microsoft Azure. First, we’ll dig into the Azure SDK and explore how cloud concepts like Azure Storage can change how your apps scale. We’ll explore how Azure Web Jobs give your ASP.NET apps run- ning as Azure Web Sites a new way to manage workloads, either on a schedule or continuously. Throughout we’ll be using the rich Azure Tooling that’s built into Visual Studio, enabling you to manage, debug, and deploy your apps without even visiting the Azure Portal (but we’ll check it out as well!)

Build Your First Mobile App in 1 Hour with Microsoft App Studio
Nick Landry
Microsoft App Studio is an innovative new tool to design and build a starter app for Windows Phone and Windows Store without writ- ing any code. Whether you’re a mobile development neophyte or a savvy developer filled with great ideas but not enough time to prototype them, App Studio can help you get started by build- ing the core of your application using multiple page templates and data sources, such as RSS feeds, YouTube videos, Flickr pho- tos, HTML content, custom collections and more. In this session, we’ll build a live & working mobile app for both Windows Phone and Windows Store on the fly, exploring the various options of App Studio. We’ll then generate the source code and dive into Visual Studio to understand the various parts produced by App Studio and how to extend them. We’ll discuss how to add custom features to the starter app, turning our prototype into a real-world app, such as advertising, in-app purchasing and such. Lastly, we’ll go over what’s involved to get the app published, how
Building Universal Windows Apps for Smartphones and Tablets with XAML & C#

Nick Landry
This session is your fast track into the wonderful new world of app development for Windows devices. Come learn how your valuable C# skills now make you a hot mobile developer for smartphones, tablets, laptops and desktops. We’ll perform a quick lap around Microsoft Visual Studio 2013 and the new Windows Universal Apps, build our first app using XAML & C#, and debug it with Windows 8.1 and the Windows Phone Emulator. We’ll then explora the converged WinRT API services and features, such as touch input, accelerometers, Live Tiles, etc. We’ll also spend valuable time going over the new app model for Windows device apps, how to share code between phone and tablet, and how to build a converged UI in XAML for Windows 8.1 and Windows Phone. Lastly, we’ll go over the app packaging and how to submit your Universal Apps to the Windows Store. The converged Windows Platform is more efficient and far-reaching than ever, and Universal apps let you start as early as you prepare for Windows 10. Come learn how to build mobile apps for hundreds of millions of Windows device users.

Testing Angular Applications
Ward Bell
Testing Angular apps is mysterious … until you know how. The key to enlightenment is understanding Angular modularity and dependency management, both at runtime and under test. Learn how to turn that key and unlock Angular testability as we explore controller and service tests—synchronous and asynchronous—that are easy to write and easy to maintain. See how a little gulp can keep the iterative design/test cycle crisp and productive. Both controller and service tests—synchronous and asynchronous—are easy to write and easy to maintain. These tests support cloud-enabled solutions. When you endeavor to leverage the cloud for a new or existing solution—it can be daunting to imagine the various offerings for compute (IaaS and PaaS), storage, data (NoSQL, relational and big data), and content delivery and streaming. Furthermore, other features such as networking, load balancing, security, configuration management and tooling play an important role in the overall cloud topology. How do AWS and Azure compare in these areas? What are their strengths and weaknesses? In this session, we’ll provide perspective on these questions on both platforms, in relation to some core architecture scenarios that most commonly determine your choice of cloud vendor.

Introduction to ASP.NET MVC
Joe Guadagno
Want to make the move to Microsoft ASP.NET MVC but don’t know where to begin? Then this session is for you. We’ll explain how ASP.NET MVC works and detail how to get up and running with ASP.NET MVC to build robust, testable, data-driven applications.

Big Data Introduction to Hadoop Using HDInsight
Daniel Egan
So you have been hearing the talk about Big Data and you have decided to dig a little deeper and find out what it means to you. In this session, we will first attempt to define “what is Big Data”. From there, we will explore not only the need for big data but also promise big data has for the technology world. We will finish by talking about the technology used to harness this data. In this discussion we will be talking about using Hadoop for Big Data. We will talk about how all the pieces fit together, (HDFS, Map Reduce, Pig, Hive, and Zookeeper). We will talk about the different variations (Cloudera, Hortonworks) and finish discussing the Hortonworks implementation on the Microsoft Cloud (HDInsight).

Code Club—How to Better Read, Write, and Absorb Code Socially
Saron Yitbarek
As a new programmer, everyone tells you to build. But just as important is building with others. Learning to code in a social format is a powerful way to level up as a developer while appreciating the collaborative context of building great projects. It allows the opportunity to teach, to learn, to experiment, and to support one another; essentials steps on the journey to being a stronger coder. The concrete guidelines outlined in this session will examine formats, guidelines, and topics to create an effective group coding session, maximizing learning and growth.

Wedding Bells: The Marriage of Big Data and IoT
Daniel Egan & Bret Stateham
What do you get when you combine two giant buzzwords: Big Data and IoT (Internet of Things)? … Lots of fun. In this session we will show you some cool hands-on IOT stuff but we will take it to the next level by talking about where the real power of IoT is (it’s not a dancing robot). How companies are using these two things to make big decisions and big money, and how you can too.

An Intro to WebRTC—Real-time Communications with Open Web Standards
Saron Yitbarek
WebRTC (Real Time Communications) is changing how we communicate in voice, data, and video. It’s a standard that’s growing in support with global collaboration and backing by significant tech giants. But how will this standard change the way we code and collaborate? What is its application and its effect, especially outside of video conferencing? This session will examine the origins of WebRTC, look into where it is today and explore how it will change our future.

Google Analytics, it’s WAY MORE than You Think
Zoiner Tejada
Do you know your website’s visitors? Really? Modern websites bring with them a host of new opportunities for tracking, measuring and analyzing visitor engagement. Tracking Page Views in the browser alone is so last decade, when today you have to track interactions across screens of single page applications, and relate it to metrics from visitors as they engage with you beyond the website, by means of mobile apps, desktop applications and even through the use of your APIs. Come to this session to learn how you can apply the new Google Analytics Universal Analytics to your digital scenarios, and how you analyze and report on the data collected. We will cover the basics of tracking (such as Page Views), but quickly get into tracking other types of hits (such as e-commerce, events, social interactions, timing, exceptions and screens) and using the new Measurement Protocol for emitting beacons from devices lacking a Google Analytics SDK (such as Windows Phones) or applications that don’t have a browser (such as within your API services). Come to this session to learn about your users, wherever they are coming from!

Building Your Azure Game Plan
Michele Leroux Bustamante
Whether you are building a new cloud-enabled solution, migrating an existing solution, or just leveraging the cloud to augment an on premises application — you must be able to map your design and feature requirements to the right Azure features. Azure has a constantly growing number of features, some requiring pivotal decisions that influence your cloud topology and management, others that require a choice of comparable options, and even features that are only available in the cloud and enhance your application. It is certainly a challenge for teams to keep up on Azure features and their best usage. This session will take you through the decision making process for building a new solution or migrating to Azure — from architecture/design, to decisions about compute, queued architectures, storage, content delivery, data, security and the DevOps cycle. In the process, the session will cover the purpose of most Azure features and get you a solid foundation for building a game plan for your own solutions through scenarios and examples.

The Azure Data Story
Lynn Langit
In this session, you’ll understand which data services are available on the Azure stack. We’ll cover everything from Azure BLOBs to Azure Machine Learning and all choices in between. Topics covered will be relational databases in the cloud (SQL Azure) to NoSQL choices, such as Redis and DocumentDB. We’ll also look at HDInsight. We will compare and contrast via architecture and real-world case studies.

AWS vs. Azure – Round 1 for the Architect
Michele Leroux Bustamante & Lynn Langit
Both Amazon and Microsoft have compelling stories and rich features supporting cloud-enabled solutions. When you endeavor to leverage the cloud for a new or existing solution — it can be daunting to imagine the various offerings for compute (IaaS and PaaS), storage, data (NoSQL, relational and big data), and content delivery and streaming. Furthermore, other features such as networking, load balancing, security, configuration management and tooling play an important role in the overall cloud topology. How do AWS and Azure compare in these areas? What are their strengths and weaknesses? In this session, we’ll provide perspective on these questions on both platforms, in relation to some core architecture scenarios that most commonly determine your choice of cloud vendor.

Azure DocumentDB: No Schema, No Problem
Andrew Liu
Application developers now support unprecedented rates of change — functionality must rapidly evolve to meet customer needs and respond to competitive pressures, while user populations can grow and shrink dramatically and unpredictably. To address these realities, developers are increasingly selecting document-oriented databases for schema-free, scalable and high performance data storage. Come learn how MSN built their user data store on top of Azure DocumentDB to deliver personalized services to over 100 hundred million users worldwide.

What Windows 10 Brings Developers
Microsoft VS Team
Windows 10 delivers a unified, developer platform so you can reach the greatest number of customers with your work across phones, tablets, PCs, Xbox, IoT devices and more. In this session, we will explore the opportunities Windows 10 opens up for developers. We’ll explore how Windows 10 builds on the universal Windows app framework released with Windows 8.1, how you can take advantage of Cortana on a wide variety of Windows 10 devices, what the new browser known as “Spartan” means for Web developers and more.

Developer Productivity Enhancements in Visual Studio 2015
Microsoft VS Team
Over the past several years, Microsoft has been hard at work re-implementing the full language stacks for Visual Basic and C#. The goal was an improved stack with a cleaner architecture would allow the Managed Languages team to work faster, empower others to build “code smart” tools and applications, and create a richer and smarter IDE experience in Visual Studio. In this session, we’ll review how Visual Studio 2015 delivers a variety of improvements, including new language features, smarter and better IDE experiences, improved debugging, and code-aware “diagnostic analyzers”.

Build Mobile Apps for iOS, Android and Windows with Visual Studio Tools for Apache Cordova
Microsoft VS Team
Today’s developers need to meet their users where they are by building cross-platform apps and Visual Studio is a great tool for the task, enabling you to build apps with the technology and skill-set that is right for your organization. With Visual Studio 2015, you can use the power and productivity you’ve come to love to build rich mobile applications across iOS, Android, and Windows devices. In this session, you’ll learn how you can code and debug cross-platform mobile apps using web technologies like HTML, CSS and JavaScript.

Introduction to Visual Studio Online
Microsoft VS Team
Visual Studio Online (VSO) brings together Visual Studio, Team Foundation Server, and Azure into an easy-to-consume cloud-hosted solution for application lifecycle management. In this session, you will see how and why you should make VSO your online home for your development projects. You will see how to get up and running in minutes, how to use Team Foundation Version Control or Git for source control, how to plan and track backlogs, use work items, monitor progress using Kanban boards, collaborate with team members, automate your build process, and whatever other VSO features we can fit into our allotted time.

15 Ways to Improve Your Business Applications Today
John A. Kuhn
Every day we work with customers to help them improve existing applications developed in .NET. In this session, you will learn 15 of the most common problems we see all the time in custom business applications, including issues such as weak security, inline
Introduction to Entity Framework 6.x
Phil Japikse
Writing data access code is tedious and mundane. The simple act of creating the CRUD (Create, Read, Update, Delete) operations doesn’t add business value to your application, but it is an absolute necessity. In this session, I’ll show you the core features of Entity Framework and how it can save you invaluable time that is much better spent on providing business value and compelling features into your applications.

Software Project Design
Juval Lowy
Much as the need to design the system, you must also design the project from scheduling resources behind the services, to tracking your progress across developers, services and phases of completion, to validating your plan, and presetting the project design options to management. The techniques of software project design are specific to software projects, but in the abstract there is nothing new. If I ask you to design a project that will comply with a set budget and deadline, within acceptable risk, be traceable, manageable, you cannot tell if I am talking about a bridge or an ERP system. Software project design requires understanding the inner deficiencies between services and activities, the critical path of integration, the available floats, the staff distribution and the risks involved. All of these challenges stem from your design and addressing them properly is a hard core engineering task – designing the project. Time permitting, you will see showing how to close the loop by tracking both progress and effort across developers and services and estimating the impact of changes throughout the project, allowing you to constantly stay on schedule and on budget.

If We’re Doing Everything Right, Why Does Our Software Suck?
Billy Hollis
You are bombarded with conventional wisdom about developing software. You are told that software producers don’t feel craft. It feels thrown together, and has to be constantly debugged and updated. You are told that technologies such as HTML5 and JavaScript are the obvious and correct choices for your users. Yet in the “Age of UX,” your software is as hard to use as ever – or harder. You’re told the cloud changes everything, but you don’t understand how. In this session, all this conventional wisdom is analyzed, challenged and in some cases ridiculed. With everything changing so fast, you need some contrarian viewpoints on where to go next, and this session strives to provide them.

Go Mobile with C#, Visual Studio and Xamarin
James Montemagno
Xamarin enables C# developers to become native iOS, Android, and Windows mobile app developers overnight. In this session, you will learn how to leverage your existing .NET and C# skills to create iOS and Android mobile apps in Visual Studio with Xamarin. In addition to allowing you write your iOS and Android apps in C#, Xamarin lets you reuse existing .NET libraries and share your business logic across iOS, Android, and Windows apps. This session will also give you the tools to determine how much existing C# code can go mobile to iOS, Android, and Android, plus help you determine the architecture necessary to support maximum code share and reuse. We will also provide guidance and best practices for handling fragmentation across and within each device platform. During this session, we will cover the Xamarin platform and how to create native iOS, Android and Windows apps in C#. Moreover, we will really focus on the code with several live coding adventures throughout the entire session. When you leave, you will have the knowledge to create your first iOS & Android in C# with Xamarin in Visual Studio.

The Science of Great UI – Presentations
Mark Miller
This session will introduce crucial design guidelines that will help you present any information – any data in any medium – with clarity. Learn how to work with foreground, background, information relevance and emphasis to reduce noise, increase signal and achieve clarity in your software designs. This session is loaded with real-life examples from both the virtual and physical worlds, and ground-breaking exclusive content you will not find in any other UI design session.

How to Interview a Developer
Billy Hollis
As you gain experience and tenure with your company, the day will likely come that you are expected to help add new team members by interviewing candidates for developer positions. There are right and wrong ways to go about it, and most developers start off with interviews that don’t do a particularly good job of evaluating a candidate in depth. This session will give you basic tips, a list of good questions to ask, and a list of common mistakes made by rookie interviewers. Come learn the basics of interviewing developers from someone who has been doing it for twenty years.

Windows Presentation Foundation for Winforms Developers
Phil Japikse
WPF has now been out for almost 10 years. Microsoft is ramping up the WPF team, and there’s a renewed interest in WPF development. You may be wondering what you should be doing with XAML and WPF. This session will provide the basics of the essentials to get you started.

WPF Data Binding in Depth
Brian Noyes
One of the most powerful capabilities of WPF and other XAML technologies is data binding. Data binding helps you keep your markup and view definition loosely coupled from the logic and data objects in your client application. In this session, you will learn how to leverage the full power of data binding in WPF. You’ll get a quick review of the basics of data binding, and then will get into the full capabilities of bindings. You’ll learn what kinds of objects you can bind to and what those objects need to fully participate in data binding. You’ll also learn how to leverage data templates to render your data objects however you want in flexible and extensible ways. You’ll learn how to leverage the validation capabilities of bindings to validate input data and provide feedback to the user about errors.

Objectives:
• Learn how to use all the features that bindings support in WPF
• Learn how to use data templates to provide the visuals for data objects
• Learn how to validate input from the user and present errors

Real World Applications for Dependency Injection
Paul D. Sheriff
Understanding Dependency Injection does not have to be hard. In this session, you will learn to use DI using components you can put to use in your applications immediately. You will see how to create a flexible configuration management system, a messaging system that can be used for error messages and even localization, and an exception management system. You will walk away with code that you can use in your applications right away.

Cordova Mobile Apps Tips and Tricks
Lino Tadros
In this session, tips & tricks will be shared about building performing mobile apps using the Apache Cordova apps in Visual Studio 2015.

The Biology Behind the Science of Great UI
Mark Miller
Learn the amazing biology behind our eyes and brains and how they impact important user interface design guidelines. We’ll learn about cognitive load, sacades & fixations, peripheral blindness, grouping, granularity, cellular data compression, symbol recognition, and how our biology continually works to fool us into a comforting (and false) state of security. This rich in-depth session will provide the cognitive science foundation needed for later Science of Great UI sessions.

Better UX in Windows Forms Applications
Billy Hollis
If your company has a ton of Windows Forms applications, and that’s not going to change anytime soon, you might still want to bump up the user experience. This session will show you ways to impress your users and make them more productive. You’ll learn to highlight focused fields, display and manage visual indicators for required fields and other attributes, detect and display common data validation errors without writing code, detect when a form has unsaved changes, and lots more. All of these capabilities are done in source-code-available components that allow you to easily retrofit your existing applications.

Web API for the WCF Guy and Gal
Robert Green
ASP.NET Web API makes it easy to build HTTP services that reach a broad range of clients, including browsers and mobile devices. Web API is the preferred approach to providing data to mobile apps. But what if you have been relying on WCF services and that is what you know? In this session, we will explore how you transition from WCF to Web API. First we will see how to write a Web API service that can replace a WCF service. We will then discuss common questions you might have. When can you continue to use WCF and when do you need to use Web API? Do you need to rewrite your WCF services or can you just use a Web API frontend? What are some of the pros and cons of Web API compared to WCF?

Integrating Office 365 APIs into Multi-Device Mobile Applications
James Montemagno
Connecting and integrating Office 365 APIs into your mobile apps for iOS, Android and Windows has never been easier. Xamarin enables developers to use Visual Studio to write native applications for iOS, Android and Windows Phone using a shared C# code base. This session shows you how to use the Microsoft Office 365 APIs in mobile device applications built in these project types to take advantage of the many services in Office 365. The Office 365 APIs make available the following services: Azure Active Directory Users and Groups, Files (OneDrive and OneDrive for Business), Mail, Calendar, Contacts and SharePoint Sites. See some examples live of connecting to Office 365 in Xamarin and Windows applications. Understand the scenarios where you would use Office 365 APIs in mobile device applications. Finally, learn how to get started with Office 365 APIs in Xamarin and Visual Studio Projects.

Better Code, Better Debugging
Kathleen Dollard
Debugging is a game of strategy. It’s a critical game because we fix bugs from the time we first check in code, and the cost of each bug tends to increase across the project lifecycle. This session takes a light look at analyzers to avoid pitfalls and increase confidence in code quality. It goes on to talk about preparing your application with EventSource and SL4 ancestor and a holistic view of your application they provide via ETW. Building on these basics, the session explores specific debugging strategies that help you ask better questions in order to significantly reduce the amount of time you spend debugging. You’ll see how Visual Studio tools provide tactical information to quickly answer the questions you pose. It’s not a profiling session, but you will see tricks to narrow down performance bugs, including the very cool new PerfTips. Leave this session ready to formulate ideas into testable strategies you can execute to resolve bugs faster and with more confidence.

Implementing M-V-VM (Model-View-ViewModel) for WPF
Phil Japikse
Now you are writing WPF applications, and wondering – what is all this code in the code behind? Shouldn’t we be doing something different? Our cousins working with ASP.NET MVC don’t even have a code behind! The answer is YES – you should indeed be doing it differently. The M-V-VM pattern is a refinement of the Presentation Model pattern (first documented by Martin Fowler). I will show you what you need to know to implement M-V-VM pattern in WPF for building SOLID WPF applications that are testable, reusable, and maintainable. Additionally, I’ll show you how to implement MVVM with generated code, such as Entity Framework.

Check the conference website for the latest information, DEVintersection.com Sessions and speakers are subject to change.
.NET and Visual Studio: What Happens Next?
Kathleen Dollard
Your tools are changing! After a dozen years, upcoming versions of .NET and Visual Studio will have incremental changes, significant changes implemented incrementally, and a few big changes. This session is an independent look at the changes in Microsoft tools and parallel changes in how Microsoft interacts with the ecosystem. You’ll appreciate how important the new C# and Visual Basic compilers are to future language design and new Visual Studio features. You’ll learn more about the newly designed versions of ASP.NET and Entity Framework and how they will conspire with new updates to the existing versions. You’ll see the progression of the .NET Framework from a platform-specific monolith, through Portable Class Libraries (PCL), to the upcoming cross-platform version. This session is designed to answer your questions about how changes in Microsoft tools affect your future development.

Serialization in .NET
John A. Kuhn
A lot of work in .NET gets done by converting objects into other formats in order to store (or transmit) the values and then convert back into an object later on. This is known as serialization and deserialization of object state. In this session, you will learn the options available for serialization, formatting and deserialization of objects in .NET, used in order to create SOAP, binary, JSON and XML representations of object state, and how you can customize objects to control what information is serialized and how it is restored.

An Alternate Design for Add, Edit, Delete Pages in MVC
Paul D. Sheriff
MVC creates five separate pages for displaying, adding, editing and deleting data, all in a single page. You will see how to add sorting and paging to the HTML table of your data rows. An MVP design pattern will be used for reusability, along with some custom MVC helper classes. Combine all this with Bootstrap and you have a great design pattern for single-page maintenance pages for your applications.

Introduction to Visual Studio Online
Microsoft VS Team
Visual Studio Online (VSO) brings together Visual Studio, Team Foundation Server, and Azure into an easy-to-consume cloud-hosted solution for application lifecycle management. In this session, you will see how and why you should make VSO your online home for your development projects. You will see how to get up and running in minutes, how to use Team Foundation Version Control or Git for source control, how to plan and track backlogs, use work items, monitor progress using Kanban boards, collaborate with team members, automate your build process, and whatever other VSO features we can fit into our allotted time.

Extend Bootstrap with Your Own UI Widgets
Paul D. Sheriff
There are a few standard widgets you will find in most templates. Things like custom drop-down calendars, dashboard summary blocks, accordions, and many other UI goodies. In this session, you will learn to create summary blocks, readme boxes, drop-down selectors and add on to the panel class. Next, you will build and display messages for long-running operations, a nice custom drop-down calendar range selector and learn to add glyphs to the Bootstrap collapse classes. All of this is accomplished with a small amount of jQuery and CSS.

XML Files, an Alternative to SQL
Paul D. Sheriff
XML files are very common in today’s programming world. You will likely need to read files, write files and query XML within your applications. .NET provides a rich set of XML processing classes that you can use to perform all these functions. One great use of XML files is to cache validation table data on the client side. In addition to constant caching this rather static table data from the server. This technique comes in very handy in WPF, Silverlight and Windows Phone applications. You can even use XML files to completely replace SQL in some applications. In this session, you will learn how to perform complete read, add, edit and delete operations using LINQ to XML. You will also see a technique of how to keep your XML files up-to-date with any server changes. You will walk away confident that you can put these techniques into use in your applications immediately!

The Architect
Juval Lowy
The software industry is in a deep crisis. Projects suffer from low quality, schedule slips and cost overruns are common. But this is hardly ordained, since there are plenty of examples of projects done on schedule, on budget, with quality, in a repeatable manner. The key for solving the crisis is to practice software development as an engineering discipline, just like it is done in mechanical or electrical engineering. That is exactly the responsibility of the modern software architect, which must address software systems from an engineering standpoint, applying age-old engineering practices to software development. Armed with that crucial observation, Juval will share his perspective on what is the key set of skills required of the architect, the role architects have to plan in order for the project to succeed, what it implies both to companies and to individual architects, and how architects should navigate and manage their own career path and personal growth.

Advanced Techniques in Project Design
Juval Lowy
If project duration is of no consequence, you should design your project for lowest cost. But if cost is immaterial, you should design it for the least duration. Why manage the “moving target” of requirements? Learn key, common sense, concepts to provide an improved foundation to your skill set. Today’s economic conditions have helped drive the need for new tools and methods for requirements gathering. Discover approaches to matching requirements and customer’s expectations. Understand the intricacies of balancing scope, schedule and budget. Learn how to balance the need for rigor and the need for speed and efficiency in gathering your requirements. Grasp how to embrace uncertainty that is inherent and inevitable in software development projects. These best practices presented to you will enable you to leverage what you learned at your first day back at the office.

Project Manager’s Survival Guide: 24 Things You Need to Know to Survive Any Project
Michael Krasowski
Are you having difficulty managing your projects? Are you about to enter the uncharted territory of project management? Do you know how to communicate effectively to your customer, teammates and your management? Come early, sit close and get some common sense, experienced-based tips and pointers on how to improve your soft skills. Discover how to find the ‘right’ people for your team. Learn the practical elements of working with customers, people, technology, process, and “connecting” them successfully to be more effective at your job. You will leave with demonstrable actions that you can apply at your next day back at work.

Learning Objectives:
1. Learn why “customer service” is the business you are really in.
2. Understand why a “Project Definition” is key to setting customer’s expectations and running a project.
3. Appreciate why people and trust are important for your success.
4. Realize why poor estimation and unstable requirements will lead to a project’s failure.
5. Send informative and readable emails using the five Cs of communication.
6. Discover how “not to” run a meeting.

Best Practices for Requirements Gathering, User Stories to Specs: A Practical Approach
Michael Krasowski
Have you wondered…why your applications just don’t seem to match your customer’s expectations? How do you manage the “moving target” of requirements? Learn key, common sense, concepts to provide an improved foundation to your skill set. Today’s economic conditions have helped drive the need for new tools and methods for requirements gathering. Discover approaches to matching requirements and customer’s expectations. Understand the intricacies of balancing scope, schedule and budget. Learn how to balance the need for rigor and the need for speed and efficiency in gathering your requirements. Grasp how to embrace uncertainty that is inherent and inevitable in software development projects. These best practices presented to you will enable you to leverage what you learned at your first day back at the office.

Learning Objectives:
1. Learn what the “Agile Manifesto” is and why it is important.
2. Discover how to manage unpredictability through sprints.
3. Understand the basics of an Agile project lifecycle.
4. Increase work team productivity with sprints, time boxing and stand-ups.
5. Learn who owns the “product backlog” and how it gets worked.

Taking the Fear Out of Project Estimation
Michael Krasowski
Are you afraid of making estimates? You are not alone! Do you know why making quality estimates AND tracking actuals is so important? Can you really estimate how long a football game will be? Learn the importance of accurate estimating and how that skill will help you define and manage your customer’s expectations. Discover the difference between “ideal time” and “elapsed time” and why your estimates need to encompass both. Join others in learning the anatomy of an estimate and learn techniques to make your life easier. Come learn some great tips you can begin using your first day back on the job.

Best Practices for Agile Work Management: Waterfall Is Dead: Move On!
Michael Krasowski
In today’s world, the success of your career is hinged on the ability to adapt to your environment. The process of developing software has evolved over the years: waterfall is dead, move on! Poor requirements gathering and estimation are the two top reasons why projects fail to deliver. Discover how to manage this unpredictability by leveraging an agile project lifecycle. Increase work team productivity with sprints, time boxing and stand-ups.

Learning Objectives:
1. Learn who owns the “product backlog” and how it gets worked.
2. Discover how to manage unpredictability through sprints.
3. Understand the basics of an Agile project lifecycle.
4. Increase work team productivity with sprints, time boxing and stand-ups.
5. Learn who owns the “product backlog” and how it gets worked.

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Session and speakers are subject to change.

LUNCHEON - Tuesday, May 19
WOMEN IN TECHNOLOGY

MICHELLE L. DUSTMANANTE
KATHLEEN DOLLARD
DEBORAH KURAYA
MICHELLE CALDWELL

Please sign up at the conference registration desk on Monday.

Register today at DEVintersection.com or call 203.264.8220 |
In this demo-packed session, you’ll learn practical tips and tricks for SQL code tuning from experienced Microsoft SQL Server MVPs Brent Ozar and Kevin Kline (author of SQL in a Nutshell) as they walk you through some of the most problematic and troublesome SQL coding problems. Using both free and paid tools from SQL Sentry, you’ll learn tips and tricks you can take home and immediately apply to your SQL code. You’ll learn things like what’s the best way to write a cursor, a quick trick that can save you 20-30% processing times on your big stored procedures, some of the best ways to write a cursor, a quick trick that can save you 20-30% processing times on your big stored procedures, shows you two queries, and then tunes them to make them dramatically faster. Along the way, you’ll see several free tools in action that help make the process easier.

Anatomy of a Data Modification: Locking and Isolation

Kimberly L. Tripp

Level: 200

Do you know the logical and physical steps that SQL Server goes through in order to process your data? Did you know that default level of isolation (read committed) is also referred to as inconsistent analysis? Do you know how to reduce the inconsistencies possible in long running queries? Come to this session to demystify locking and isolation and get a better grip on what’s really going on when it seems like nothing’s going on.

Transaction Log Performance

Paul Randall

Level: 200

One of the most misunderstood parts of SQL Server is its logging mechanism. The fact that the transaction log exists and can cause problems if not managed correctly seems to confound many DBAs and developers. Why is it possible for the transaction log to grow unboundedly? How can transaction log performance be monitored and improved? Why does it take so long for operations involving the log? In this in-depth session, Paul will discuss the performance issues that can be caused by the transaction log and what you can do to detect and alleviate them.

Understanding SQL Backups and Restores

Tim Radney

Level: 200

Having backups is important for organizations, but — are you sure it will restore? Too often, Tim Radney has been brought in by organizations to help recover failed systems where administrators simply didn’t know how to properly restore SQL backups. Or, where their backups didn’t restore. In this session, Tim will go through the various types of backups that can be performed as well as demonstrate the proper process for restoring each of them. This isn’t your basic session as Tim will not only be covering the common full, differential and log backups, he will also be covering partial, file group, COPY_ONLY, a URL backup and restore, encryption as well as performing a demo of a “hack attach” for the ultimate tail of the log restore.

Check the conference website for the latest information, DEVintersection.com

Sessions and speakers are subject to change.

Advanced Data Recovery Techniques

Paul Randall

Level: 400

Disasters happen — plain and simple. When disaster strikes a database you’re responsible for, and backups and repair fail, how can you salvage data, and possibly your company and your job? This is where advanced data recovery techniques come in. Using undocumented tools and deep knowledge of database structures, you can manually patch up the database enough to extract critical data. This demo-heavy session will show you never-seen-before methods I’ve used extensively in the last year to salvage data for real-life clients after catastrophic corruption. You won’t believe what it’s possible to do!

Common SQL Server Mistakes and How to Avoid Them

Tim Radney

Level: 200

Making mistakes is human nature; avoiding them comes from experience and shared wisdom from others. In this session, Tim Radney will share experiences he has encountered supporting multiple Fortune-level companies. Tim will share real-world experiences of environments he has worked on and the impact he has seen from administrators not knowing how to properly configure and administer SQL Server. In this session, you will learn many accepted best practices for installing, configuring, and supporting SQL Server to help your environment run as smooth as possible. When you leave this session, you will have a checklist of items to take back to your shop to make sure your environment is configured properly.

The Ultimate Free SQL Server Toolkit

Kevin Kline

Level: 200

Free and useful tools have proliferated since Microsoft launched the CodePlex website. Join Kevin Kline, author of the SQL Server Magazine column “Tool Time,” as he profiles the very best of the free tools covered in his monthly magazine column — more than a dozen free tools and utilities! We will cover tools that:

• Track database growth
• Implement logging in SSIS jobs
• Stress test your database applications
• Automate important preventative maintenance tasks
• Automate maintenance tasks for Analysis Services
• Help protect against SQL injection attacks
• Graphically manage Extended Events
• Utilize PowerShell scripts to ease administration

And much more. These tools are all free and independently supported by SQL Server enthusiasts around the world.

Prerequisites: Basic understanding of SQL Server Management Studio.

Our goals for the session are:

1. Learn about CodePlex and other useful on-line tool/script repositories for the SQL Server professional.
2. Understand gaps in the native tools, like SQL Server Management Studio and SQL Profiler, which you can fill with free tools that are independently created and supported by SQL Server enthusiasts.
3. Review a wide variety of tools that will improve your efficiency and effectiveness as a SQL Server professional.

Performance Proof – Microsoft SQL Server Configuration Settings

Kevin Kline

Level: 300

Most database professionals know that there are several configuration settings at the server and database level that can impact performance and alter application behavior. But not everyone has the time to experiment with the different settings and analyze the behavioral changes of each setting.

In this demo-packed session, we will drill into a half-dozen important server- and database-level configuration settings. In each case, we will run benchmarks to show you the actual impact of the configuration settings. We will also use the performance monitor so that you can clearly see how the behavior of SQL Server is altered by each setting, whether performance is improved, and areas where the performance improvement is most valuable.

Our goals for the session are:

1. Learn the basics of running and monitoring a performance benchmark on Microsoft SQL Server to test a hypothesis about performance.
2. See the impact of I/O-specific settings at the database-level such as database compression, recovery interval, and recovery model.
3. Learn how SQL Server manages its memory caches by observing the impact of server-level settings governing memory, optimize for ad-hoc workload, and parallelism, along with the database-level setting for parameterization.

Prerequisites: Intermediate experience with Microsoft SQL Server administration and SMS.

Emulate Production in Your Development Environment

Aaron Bertrand

Level: 200

Join Aaron for a thorough guide on how to avoid, “it worked on my machine,” syndrome. Aaron will explain things like stats-only DBs, tricks like SETPUS/WEIGHT and OPTIMIZER_WHATIF, and simulating realistic SAN performance. Your development environment may be hiding I/O issues until much later because the hardware runs on SSDs and with small data sets. Come to this session to create more realistic test patterns and, ultimately, better scalability in your production environment.

SQL Server Monitoring Is My Superpower

David Pless

Level: 200

Monitoring SQL Server, the operating system, and your applications in the enterprise can be an arduous task. There are a number of third-party solutions available, though there is often a gap between the custom needs of your organization and what is offered through monitoring providers. In this session, we will address these challenges by creating customized performance monitoring solutions including creating your own performance counters in SQL Server, using PowerShell to capture performance data, leveraging Policy Based Management (PBM) and the Enterprise Policy Management Framework for an end-to-end solution.

We focus on leveraging the custom user settable performance monitor counters to roll your own monitoring solutions. The user settable counters allows us to monitor performance scenarios
Maintain SQL Server Performance Baseline with PowerShell

Allen White

Level: 200

Join Shep to learn how to get started in Azure and what to do with it from a DBA/SQL Server perspective. What is Azure, where is Azure, and what should you be doing with it? Shep will cover key terms, concepts, options for extending on-premises infrastructure, storage, and some options to ease you into the cloud. Learn about the new features recently released in AzureDB and learn about the New B group and G series Virtual Machines with local SSD and Azure Premium storage that support up to 50,000 IOPS.

Updating Statistics Affects Query Performance More Than You Think

Erin Stellato

Level: 100-200 (mostly 200)

I bet you’ve heard this one, “This query is slow, let’s update statistics.” But what does updating statistics “really” do to your query performance? And is it the right solution? While updating statistics may provide a short-term solution, it can burn the true root cause. If you’re not familiar with what happens to query plans when you update statistics, then don’t miss this session. We’ll set the stage with a review of what statistics are, how the optimizer uses them, and discuss the various ways you can update them. Then we’ll explore what happens to plans when you “do” update statistics, and you’ll see why that might not always be the right long-term solution.

DBA Mythbusters

Paul Randal

Level: 300

It’s amazing how many myths and misconceptions have sprung up and persisted over the years about SQL Server — after 15 years helping people out on forums, newsgroups, and customer engagements, Paul’s heard it all. Are there really non-logged operations? Can interrupting shrinks or rebuilds cause corruption? Can you override the server’s MAXDOP setting? Will the server always do a table-scan to get a row count? These are just a few of many, many myths that Paul will debunk in this fast-paced session on how SQL Server operates and should be managed and maintained.

Stored Procedures – Quick Tips to Solve Parameter Sniffing Problems

Kimberly L. Tripp

Level: 300

Parameters are used on almost all procedures but the process of optimization only happens when the procedure is first compiled (when no plan already exists in the cache for this procedure). This can lead to suboptimal plans in the cache — created for other parameter patterns / values / distributions. There are many solutions to these problems. Come to this session to see some quick tips for troubleshooting whether or not this is your stored procedure’s problem as well as a quick and easy [temprory] solution. This session will focus on short-term problem solving but also give you information / references for long-term coding best practices.
Continuing our indexing theme, I'll focus on what tools can be used to understand aspects of database development and administration.

**How permissions are assigned and who they're assigned to may be a better way to search XML data.**

**Sql Server Indexing for Performance**

**Kimberly L. Tripp**

**Level: 300**

Continuing our indexing theme, I'll focus on what tools can be used to help you create additional nonclustered indexes. I'll start with query plan analysis techniques that will help you better understand what SQL Server is doing and then I'll dive into a walk-through demo on how to use the tools to help you decide what indexes are best. We'll talk about the “green hint” that shows up in showplan (the good and the bad) as well as using DTA (the Database Engine Tuning Advisor). If you want a jump start on creating the RIGHT indexes for joins, this is the place to be!

**Sql Server 2014 In-Memory Index Internals**

**Tim Chapman**

**Level: 200**

SQL Server 2014 introduces a new memory-optimized feature called In-Memory OLTP, integrated into the SQL Server Engine, which can increase database performance by 5X-20X. New types of indexes are the foundational pillars of this amazing new database architecture. Join Microsoft field engineer Tim Chapman as he explores the internal workings of the new hash and range indexes present in SQL Server 2014.

**Developers: Who Needs a DBA?**

**Brent Ozar**

**Level: 200**

You store data in SQL Server, but you don’t have enough work to keep a full-time DBA busy. In just one session, you’ll learn the basics of performance troubleshooting, backup, index tuning, and security. Brent Ozar, recovering developer, will teach you the basic care and feeding of a Microsoft SQL Server 2005, 2008, 2012, or 2014 instance and give you scripts to keep you out of trouble.

Our goals for the session are:

1. Why every table needs to start with a clustered index
2. How to quickly guessestimate good-enough indexes
3. How to get the most resource-intensive queries on your server
4. How to set up the right backups for what your end users want
5. Which database roles give you simple, easy security?

**Sql Server Security for Developers**

**Tim Chapman**

**Level: 200**

Database security is one of the most overlooked and least understood aspects of database development and administration. How permissions are assigned and who they’re assigned to may mean the difference between an app that works properly and one that can lead to catastrophe. In this session, Microsoft Engineer Tim Chapman provides a detailed overview of the SQL Server security paradigm as well as several concrete examples of how security is assigned, the reasoning behind it, and how to avoid security pitfalls.

**Understanding and Preventing SQL Injection Attacks**

**Kevin Kline**

**Level: 200**

SQL Injection attacks are one of the most common hacker tricks used on the web. Learn what a SQL injection attack is and why you should be concerned about them. Join Kevin for this demo-packed session. You’ll get to witness first-hand several different types of SQL injection attacks, how to find them, and how to block them.

Prerequisites: Basic database administration and Transact-SQL skills

**Sql Server Trace Flags: A Practical Guide**

**Aaron Bertrand**

**Level: 200**

Join Aaron for a rundown of some of the more useful trace flags, including many undocumented ones. This session will provide information on how to get great insight into statistics, optimizer information, and how to coerce behaviors and bend SQL Server to your will. You could even call this session, “We enabled a trace flag – you won’t believe what happened next!” Come to this session so that you know what’s safe to use, what should ALWAYS be used, and when to BEWARE!

**Leveraging Resource Governor in SQL Server 2014**

**David Pless**

**Level: 300**

In this session, we will cover using Resource Governor to isolate workloads and how to use Resource Governor as a governance and as a monitoring solution. We will focus on Resource Governor’s capability to differentiate workloads and monitor resource usage at the application, database, user level, and more. We will cover the Resource Governor architecture and how improvements to the SQLOS in SQL Server 2012 and 2014 allows for increased resource controls. We will discuss how this information can be consumed through Resource Governor DMV’s, catalog views, and RG perfmon counters.

We will additionally leverage Resource Governor to monitor without limits to identify, for example, which applications for a particular database are using the most memory and CPU at the scheduler and NUMA level. Using Resource Governor in this way gives us a powerful method of creating a monitoring dashboard to show which components are using which resources. This is a powerful solution for hosting companies to be able to find out what applications are chewing up resources at the database level and much more.

Finally, we will examine Resource Governor capabilities in SQL Server 2014 to control storage performance with the addition of IO governance.

Our goals for the session are:

1. Understand the Resource Governor internals and the improvements made in SQL Server 2012 / 2014 to give DBAs greater controls.
2. Learn how Resource Governor can be monitored through DMVs, catalog views, and RG perfmon counters.
3. Identify techniques to leverage Resource Governor with Reporting Services as a method to identify performance monitoring trends.

**Licensing SQL Server**

**Brent Ozar**

**Level: 200**

Things change every year, and they never seem to get easier. How do we license SQL Server in a virtual environment? What does it mean to block them.

Software Assurance cost, and what does it get you? Who’s allowed to license SQL Server by the CPU, and who isn’t? Brent Ozar will simplify licensing down to a simple decision tree so you can know how much that new server will cost.

**SqlIntersection Closing Panel & RunAs Radio Recording**

Hosted by Richard Campbell of RunAs Radio and featuring Brent Ozar, Paul S. Randal, and Kimberly L. Tripp along with cameos from lots of SqlIntersection speakers

Level: ANY and EVERY – you never know what you’re going to get!

Bring your remaining questions to our closing panel and have some great fun with this highly interactive and always entertain- ing session hosted by Richard Campbell.

More sessions being added to the website.

Check the conference website for the latest information, DEVintersection.com

Sessions and speakers are subject to change.
Taxonomies, Content Types and Metadata, Oh My!
Ruven Gotz
Level: 200
You really don’t want your shiny new SharePoint installation to turn into another file dumping ground, just like the chaotic shared network drive did. If your current SharePoint installation is already heading in that direction, then you really want to take advantage of the power that SharePoint can provide for organizing knowledge and increasing findability. To do this successfully, you MUST understand Content Types and Metadata and how to leverage the tools and features of SharePoint to implement a coherent and usable taxonomy.

In this fast-moving session, you will hear clear (non-jargon) explanations of these taxonomy concepts and how they relate to each other. You will be given tools that you can use to educate your stakeholders, and you will learn how to apply them in a way that makes SharePoint into a much more powerful and useful tool.

Conquer the Chaos of End User Support and Drive SharePoint Adoption in Your Organization
Asif Rehmani
Level: 200
Is SharePoint working for you or are you working for SharePoint? Why do many end users cringe when they hear the word SharePoint? It’s not because SharePoint is a bad platform (quite the contrary actually). It is because of their past experiences with SharePoint. In this session, we will talk about how you can make your users fall in love with SharePoint and drive end user adoption of the platform.

Governance Strategies for 2013
Eric Riz
Level: 200
SharePoint 2013 changes the landscape in many ways, particularly with its application model and cloud capabilities. From a business perspective, this makes the job of the governance teams more difficult and complex as these issues become key priorities (and areas of weakness) for the organization. This session is a strategic conversation around the elements of 2013 that governance teams should be most concerned with, from data ownership to creating the correct policies and social rights to security. Attendees will learn tactical strategies which can be used as soon as they return to the office.

Building Your SharePoint Prototype and Pilot
Eric Riz
Level: 200
Implementing SharePoint is a concentrated effort that involves many people and moving parts. Many organizations choose to pilot their implementation in order to test the waters and get feedback on their content. Unfortunately, these same companies fail to successfully build a journey which incorporates prototyping and piloting successfully. The question is, how do you ensure that your pilot is successfully implemented? This session will provide the strategy and tips to do just that. We will lay out a defined strategy for choosing which departments in your organization to target for your pilot, and how to define the content and build the functionality they need to succeed. Discussion topics will include how to define your success measurements for the rollout, leverage a shortened cycle of design, development and delivery, documentation and training as well as gathering feedback from your participants. This is an action-packed session that is guaranteed to get your project and pilot started successfully.

Developing Applications with the Office 365 APIs and SharePoint Online
Scott Hillier
Level: 300
Are you a SharePoint developer writing cloud applications or a cloud developer interested in utilizing SharePoint workloads? With the introduction of the Office 365 APIs, both groups have something to be excited about. The Office 365 APIs expose Exchange online, SharePoint online, OneDrive for Business, and Azure Active Directory as RESTful services that can be consumed by web applications. This architecture opens up new possibilities for both SharePoint developers and traditional cloud developers. In this session, we will examine the services available using the Office 365 APIs and show how to incorporate them into web applications running in Azure. SharePoint developers will learn to use their existing skills to access new capabilities in Office 365 while cloud developers will learn to make use of SharePoint workloads in their applications.

Optimizing SQL Server 2012 for SharePoint 2013
Brian Alderman
Level: 300
Knowing the vast majority of the content accessed via SharePoint is stored in SQL Server, and also knowing an incorrect configuration of SQL Server can have a detrimental impact on the performance of SharePoint, it is important to understand the integration of these two products. Regardless of whether you have a dedicated DBA or the SharePoint administrator is also the DBA, there are critical SQL Server configurations that can be made that will impact the performance of SharePoint. Often DBAs are familiar with how to manage SQL Server, but may not be familiar with some nuances that SQL Server has when integrated with SharePoint. In this session, we will demonstrate how some default SQL Server settings negatively impact SharePoint and what changes can be made to improve the performance of SharePoint. These changes include database file settings and SQL Server instance settings. We’ll also examine how to properly install SQL Server and SharePoint so they work together as efficiently as possible. This discussion will introduce the best practices framework that will allow your SharePoint administrator and/or your DBA to configure SharePoint and SQL Server to provide optimal performance for your SharePoint implementation.

Managing Data Recovery in SharePoint 2013
Brian Alderman
Level: 300
SharePoint Server 2013 includes several content recovery options that provide the SharePoint administrators more granular content recovery options. Using Central Administration or PowerShell, you can export site collections, site, libraries, and list making it easier to backup, migrate, or archive content stored in SharePoint. SharePoint 2013 also provides the option of recovering site collections, sites, list and libraries from content databases that are no longer part of the SharePoint farm. Furthermore, you can configure your content databases to take advantage of SQL Server High Availability options like mirroring and AlwaysOn which provides quick recovery of your databases. With a vast majority of your SharePoint content stored in SQL Server, it is imperative that you have an efficient way to recover items or entire databases as quickly as possible. This discussion will introduce the best practices framework that will allow your SharePoint administrator to configure SharePoint and SQL Server for quick content recovery minimizing the downtime and providing shorter yet achievable Service Level Agreements (SLAs).

Overcoming SharePoint Limitations – Creating List Views for Large Lists
Mark Rackley
Level: 200
SharePoint List Views are a great way to report on information in SharePoint, communicate status, and stay organized. However, what happens when that list grows beyond SharePoint List View Threshold? Sure, if we are on-premises we can braise our administrators, but what if that’s not an option? What if you are using Office 365? Have we forever lost the ability to easily create list views once we cross that barrier? Is grouping by columns a thing of the past at that point? Fear not. In this session, we’ll take a real-world example of an organization’s need to effectively search and report on employee information stored in SharePoint and create effective "list views" using SharePoint’s REST functionality and a little client-side development.

Introduction to the SharePoint Client Object Model and REST API
Rob Windsor
Level: 200
As Microsoft was releasing SharePoint 2013, it was pretty clear that they were steering people away from using the product as a portal to using it as a gateway to external systems and services. Since the Server Object Model cannot be used remotely, developers building these external systems will need to become familiar with the Client Object Model (CSOM) and/or the REST API if they want to communicate with SharePoint. This session will introduce these two APIs, give a brief overview of their history, and then show you how to get started using them through a series of demonstrations.

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Dan Holme

“Best” Practices for SharePoint Development with JavaScript and jQuery
Rob Windsor
Level: 300
Much of the JavaScript sample code you see is written like script. It’s not structured or modular or layered. In other words, it doesn’t follow the generally accepted best practices we use when writing server-side code. In this session, we’ll take one of these script-like samples and incrementally improve it; adding structure, modularity and layering. In the end, you’ll find that while there are differences, client-side coding does not have to feel foreign to server-side developers.

SharePoint 2013 Workflows: Stages and State Machines
Mike Fitzmaurice
Level: 200
Stages are a new feature of the SharePoint 2013 Workflow Manager, but the concept behind it, State Machines, has been around for a long time. Stages are a better way to model processes, a better way to organize workflows, a better way to communicate with stakeholders and users, and a better way to build exception handling into your workflow solutions. This session will explain how they work and why they’re useful, then take you through transforming a classic sequential workflow into a stage-based design, and then enhancing it further with options only possible using stages. You’ll get a good balance of conceptual and practical knowledge you can use in any of your workflow projects.

Where Forms Fit Into Workflows: Use the Right Tool for the Right Task
Mike Fitzmaurice
Level: 200
If Microsoft’s retirement of InfoPath has you looking for alternatives, the first question worth asking is how to best use forms in the first place. This session is a response to observed attempts to put 100% of an application’s logic inside the form itself—a scenario InfoPath not only allowed, but arguably encouraged. This session focuses on product-independent techniques for separating presentation logic from process logic, ideally resulting in easier forms, easier workflows, and easier overall solutions you can document, version, and maintain. The session will balance guiding principles with practical demos.

Automate Business Processes with Powerful No-code SharePoint Designer 2013 Workflows: SharePoint Online and On-premise
Asif Rehmani
Level: 200
SharePoint Designer 2013 lets you design powerful, multi-step workflows from scratch using stages, loops, conditions, actions and more. You can even create workflows graphically using Visio 2013 components built directly within the SharePoint Designer 2013 environment. This session will explore the exciting opportunities to automate your business processes with SharePoint 2013 Workflows without using a single line of code!
Shifting the Paradigm of Requirements Gathering
Michelle Caldwell
Level: 200
Are you tired of attending or leading the same old boring requirements-gathering sessions? Would you like to find a way to get stakeholders excited about requirements gathering? Then this session is for you! Find out how to use collaborative play to build better solution requirements for SharePoint projects (or any other project for that matter). In this session, you will learn seriously fun ways to do work-seriously! Learn how to tap into true innovation and uncover hidden business requirements. What are you waiting for? Come to this class and learn how to put these tools into action!

By attending this session, you will be able to:
- Introduce new and field-tested concepts for creating a clear and compelling vision for SharePoint
- Facilitate more effective requirements-gathering sessions
- Identify and avoid five problem patterns that plague many project teams
- Hit the ground running with new templates that you can use to facilitate your own Innovation Games
- Refine requirements down to measurable business value, and map to strategic business goals using the “rainbow” technique

Understanding SharePoint 2013 App Security Vulnerabilities
Scot Hillier
Level: 300
As SharePoint developers move from the full-trust world of solutions to the low-trust world of apps, security takes on new importance. Suddenly, developers must be concerned about web security vulnerabilities such as man-in-the-middle, injection, over-posting, cross-site scripting, cross-site request forgery, and more. For traditional SharePoint developers, these ideas are likely new and somewhat confusing. In this session, we’ll take a look at the top security vulnerabilities that can affect SharePoint apps and show how the proper way to mitigate them. Attendees will exit the session with a good understanding of SharePoint app security vulnerabilities and how to avoid them.

Using jQuery to Maximize SharePoint Form Usability
Mark Rackley
Level: 200
You know what users hate? Ugly, unusable SharePoint forms. You know what developers hate? Cracking open Visual Studio or InfoPath for minor form modifications. There must be a better option.

In this session, you will learn how to use jQuery to transform SharePoint's out-of-box forms to make them dynamic, stylized, and more usable without the need for Visual Studio or InfoPath. Specifically, you will learn:
- How to hide, show and pre-populate SharePoint Form fields
- How to create cascading drop-down lists and custom field validations
- How to turn your bland SharePoint form into a visually stunning masterpiece

An Introduction to the SharePoint 2013 App Model for Developers
Rob Windsor
Level: 200
The App model is a new development/deployment model introduced with SharePoint 2013. When using this model, all code runs outside of the SharePoint server, either running in the client browser or on another server in your network or in the cloud. Since code is not being deployed to the server, interaction with SharePoint will be done using the enhanced and extended client object model and REST services. In this session, we’ll explore the App model and look at how to develop apps using Visual Studio and a new web-based tool code-named “Napa”.

Making SharePoint Strategic
Eric Riz
The highest and most effective use of SharePoint includes business units operating at the same level with SharePoint, including your original data. SharePoint must be deployed as a shared system of data, where trusted information is surfaced up from accounting, document management, data collection and governance. Without these components in place, it is questionable whether or not your implementation will succeed.

The question is, how do you create and align a SharePoint roadmap and plan that is strategic to your organization, and not tactically based on implementing SharePoint to perform only a percentage of what it is capable of doing? Join Eric Riz to learn how to make SharePoint the enterprise system that Microsoft intended it to be. He will discuss deployment strategies, tips for aligning your line of business (LOB) data, and help you conceptualize how your SharePoint implementation can become strategic while devising a business plan for your implementation. Attendees will learn how to see the tangible, conceptual workplace that your executives have hoped for SharePoint.

Building Business Solutions with the Office App Model
Richard diZerega
Learn about the latest ways to extend using the Office App Model. Hear about all the latest announcements from //build and Ignite events and how it can improve your solutions.

Building AngularJS Using Office 365
Scot Hillier
See website for abstract.

Optimizing and Accelerating Your SharePoint Farm
Chris McNulty
You may be planning to establish or upgrade a new SharePoint installation. Perhaps your SharePoint farm isn’t as fast or reliable as it used to be. Don’t give up! Either way, there are things you can do to accelerate the performance of your SharePoint farm.

Join Chris McNulty for a review of memory and service optimization, high performance designs, disk and database optimization, security, and caching techniques to make things better. We’ll also review how to measure and interpret SharePoint’s own key performance indicators. Be prepared for shredded storage and RPS, SQL tuning, BLOB caches and IOPS!

Using jQuery to Transform Your SharePoint Form
Jeremy Thake
See website for abstract.

Extending the Office 365 App Launcher with Your Web Apps
Jeremy Thake
See website for abstract.

Leveraging the RESTful CORS Office 365 APIs in Your Web Projects
Andrew Connell
See website for abstract.

SharePoint 2013 Sharing and Security
Dan Holme
SharePoint 2013 introduces new sharing features that make it easier than ever for end users, with appropriate permissions, to share content with internal and (in Office 365) external users. It’s more important than ever that you master SharePoint’s security model, with its deep hierarchy of secure objects, granular permissions and policies, and interconnected user interfaces. This session will demystify SharePoint security by dissecting each of these components and presenting best practices for implementing and managing security. You’ll learn how to effectively assign least privilege permissions.

You’ll discover under-documented “gotchas” of broken inheritance. You’ll take away options for new permission levels and settings that address common business requirements. And you’ll learn when and why it makes sense to leverage Active Directory groups or use SharePoint groups.

Building Business Solutions with the SharePoint App Model
Scot Hillier
Learn about the latest ways to extend using the SharePoint App Model. Hear about all the latest announcements from //build and Ignite events and how it can improve your solutions.

Developing with Office 365 and Implementing Application Lifecycle Management Practices
Richard diZerega
See website for abstract.

Building AngularJS Using Office 365
Scot Hillier
See website for abstract

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**PRE-CONFERENCE Workshops**

**Monday, May 18, 2015**

9:00am - 4:30pm

**Data-Centric Single Page Applications with Angular, Breeze, and Web API**

**Brian Noyes**

You need to build an HTML client app either as a browser app or to package as a hybrid mobile app, and there is a lot of data presentation and manipulation involved. You may be fully embracing the Single Page Application (SPA) architecture, or you may have some highly interactive and data-centric pages you need to implement. You want to make sure you end up with good, clean, maintainable, testable, and easy to implement client and server-side code. This workshop will take you end-to-end, showing you how to put together a rich data-driven HTML client interface using Angular to separate the UI data manipulation, separate the markup and logic, and navigate between views. You’ll see how to use Breeze to do the heavy lifting on making the service calls for you, tracking changes on the entities, sending changes to the server side in batches, and more. Then you’ll also see how to set up the server side using ASP.NET Web API to expose the services consumed by your client. By the end of the day, you will know how to build out the vertical slices of your app from top to bottom:

- How to do data binding in HTML client-side applications with AngularJS
- How to structure views, view models, and navigation with Angular
- How to simplify AJAX data access via services with Angular
- How to structure views, view models, and navigation with Angular
- How to do data binding in HTML client-side applications with AngularJS
- How to structure views, view models, and navigation with Angular
- How to simplify AJAX data access via services with Breeze.

**Getting Started with Xamarin Forms**

**Carl Franklin**

Xamarin Forms, Xamarin’s solution for creating native iOS and Android apps completely in Visual Studio, is compelling. Getting started, however, can be daunting. There are many moving parts that all have to fall into place before we can write Hello World. This workshop will get you off to a good start.

In this post-conference workshop we will walk through the setup process together, and write our first real cross-platform na...
Dan Wahlin

The web is best when it’s open and collaborative.

Developing SharePoint 2013 and Office 365 Apps

Scott Hilker

Level: 300

As SharePoint and Office developers transition from the traditional full-trust solution model to the SharePoint 2013 and Office 365 app models, they face many challenges. Initially, the focus is on the plumbing as developers work to understand things like host web, app web, REST APIs, and OAuth tokens. Moving forward, they discover that many new technologies such as jQuery, OData, HTML5, MVC5, and Web API 2 are fast becoming critical. As skills develop in even further, patterns like Model-View-ViewModel and Model-View-Controller become important for creating scalable and maintainable apps. In this one-day SharePoint and Office workshop, we’ll examine the foundation of the SharePoint 2013 and Office 365 app models along with the supporting technologies and patterns to give you a jump start on your app development projects. Attendees will learn how to correctly architect and create apps using the latest technologies and best practices whether in the cloud or on premises. Attendees will exit the workshop ready to start building scalable and maintainable apps.

Getting Requirements Right: Use Visual Tools and Innovation Games to Get Everyone on the Same Page

Ruven Gotz & Michelle Caldwell

Level: 200

If you don’t have a clear understanding of what your clients/stakeholders want, your project will likely fail in at least some key areas. The problem is that getting people to explain what they want is really hard. We will present a collection of innovative techniques, based on visual and tactile tools that have been proven to really help with this problem. Gamestorming and innovation techniques make it easier for your clients/stakeholders to explore the real issues and to articulate the true goals that they have for the project. Visual tools such as mind mapping let you capture and present your thinking in a clear way that allows for immediate validation and course correction. The tools and methods we will teach you are free or very low-cost and can be learned quickly. During the workshop, you will be an active participant which will give you a rapid understanding of how these methods work and give you the confidence to apply them on your projects. You will learn about eliciting client goals, prioritizing conflicting requirements and capturing the results in ways that can be easily understood. We will show you the visual tools for taxonomy and navigation design, capturing decision making in very complex (some say “wicked”) scenarios and short-circuiting the

See the latest information, DEVintersection.com

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endless rounds of meetings and document revisions that typically happen on projects. We will also show you other tactile/visual tools that are fast to implement and easy to learn for tasks such as wire framing and taxonomy design. In order to be successful on your projects, you need to achieve shared commitment via shared understanding. During this workshop, you will learn how to get there.

**POST-CONFERENCE Workshops**

**Cloud Powered Modern Websites**

Zoine Tejada & Michele Leroux Bustamante

Modern websites are built using a combination of tools, platforms and techniques. Whether it is providing rich graphics, animation and interaction in an age without Flash, attaining bi-directional communication between client and server with Web Sockets or Signalf, building a responsive website that intelligently adjusts itself to best fit your user’s device or building a website with all the storage, threading and offline use features that were previously only done with desktop apps. Modern websites are typically implemented with a development stack such as MEAN (MongoDB, Express, Angular, Node.js), LAMP (Linux, Apache, MySQL, PHP), ASP.NET, MVC, Web API, SQL or Ruby, Apache, MySQL. In this workshop we’ll provide you with a hearty taste of these architectures and compare approaches across them for developer productivity in web frameworks (Angular, MVC, Knockout, Bootstrap, Foundation), and implementing the data layer using different approaches among noSQL/newSQL and relational (MongoDB/docu- foundation), and implementing the data layer using different approaches among noSQL/newSQL and relational (MongoDB/docu- foundation), and implementing the data layer using different approaches among noSQL/newSQL and relational (MongoDB/docu-

**Metaprogramming with Roslyn**

Kathleen Dollard

Metaprogramming is the arching principle for techniques where code does more than the strict interpretation of the computer language. It encompasses strategies as diverse as code generation, Aspect Oriented Programming (AOP), Domain Specific Languages (DSL), and runtime code creation. The new .NET Compiler as a Service (Roslyn) opens up the opportunities in metaprogramming by making it practical to explore and create syntactic and semantic trees. This day starts with metaprogramming principles and an overview of techniques. The afternoon dives deep into a single easily accomplished approach to metaprogramming—code generation. You’ll learn how to think about your code as a set of patterns, unique input to those patterns and handcrafted customizations. You’ll learn more about working with the complexities of the Roslyn trees and creating custom built interfaces to simplify access to the information, for a specific purpose. You’ll leave able to create strongly typed code-first style input to your own templates and provide rich customization points that maintain application integrity. Use these techniques to remove the boring, stupid parts of application development.

**The Non-Designer’s Boot Camp for Designing User Experiences**

Billy Hollis

Do you know you need to create better user experiences, but don’t know how to start? This workshop can be your boot camp, teach you the essentials you need. The first one third will introduce you to the world of universal design principles, based in the human brain and visual system, that furnish the foundation of good design. The rest of the day, you’ll learn a basic design process: observing users, analyzing and prioritizing their needs, sketching design ideas, and evaluation of ideas to choose the most effective design. You’ll see the most important dos and don’ts for creating your design team, and do hands-on exercises to learn the mechanics of design and force you away from your past habits. You won’t be a design ninja when you leave, but you’ll understand the basics and know the resources you’ll need to learn more.

**Performance Tuning When You Can’t Fix the Queries**

Brent Ozar

Your users are frustrated because the app is too slow, but you can’t change the queries. Maybe it’s a third-party app, or maybe you’re using generated code, or maybe you’re just not allowed to change it. Take heart—there’s still hope. Brent Ozar does this every week, and he’ll share his proven methodologies to performance tune with indexes, SQL Server configuration switches, and hardware. In this one-day workshop, you’ll learn:

- Simplified internals—how SQL Server turns your query into an execution plan
- Wait stats solutions—a list of fixes for most common bottlenecks
- Plan cache analysis—how to discover the most resource-intensive queries so you know if indexes and hardware will work
- Monitoring metrics—what DMVs and Perfmon counters to monitor, and what thresholds to alert on
- Hardware warning signs—how to prove your server is undersized for your workloads
- Tools and scripts—the best free and paid tools to make your tuning job easier

This workshop is for developers, DBAs, and consultants who have to make SQL Server go faster. You should be comfortable writing queries and creating tables, but not as confident about interpreting SQL Server’s DMVS and diagnostic data.

**Customizing and Developing Rich Business Forms in SharePoint**

Mark Rackley

**Level: 200-300**

Default SharePoint forms are bland and limited. Adding real business logic to them? Forget about it. But with the impending death of InfoPath and no viable out-of-the-box form customization solutions, what’s a person to do without spending a lot of money? In these session, designers and developers will learn how to create rich custom forms using the out-of-the-box SharePoint forms as well as how to use free tools to create rich business forms that will make you forget all about InfoPath.
Top presenters with a passion to share their knowledge and expertise.

Questions answered, strategies defined.

Speakers

SCOT HILLER
INDEPENDENT CONSULTANT

BILLY HOLIS
NEXT VERSION SYSTEMS

DAN HOLME
IT UNITY

JOSH HOLMES
MICROSOFT

MARK RACKLEY
CAPSPIRE, LLC

TIM RADNEY
SQLskills.com

PAUL RANDAL
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For more information and trip planning tips, go to visitarizona.com.

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