

COLUMBUSCODECAMP

PRESENTED BY:



9 AM OCTOBER
13, 2012

1275 KINNEAR RD., COLUMBUS, OHIO
TEHCOLUMBUS BUILDING

Schedule of Events

The building's Wi-Fi network ID is "TCpublic" with a password of "columbus99" (all lowercase).

Time	Auditorium	Classroom A	Foster Room	Beta Box	Board Room
8:00–9:00 am	Doors will open for registration and breakfast <i>(made possible by our sponsors)</i>				
9:00–9:15	Opening Remarks				
9:15–10:30	Keynote: Evidence-Based Software Development <i>(Dan Saks)</i>				
10:30–11:00	Websites With Noir <i>(Raju Gandhi)</i>	Hybrid Approach to Moving to the Cloud <i>(Josh Harrison)</i>	Scaling PHP <i>(Anand Capur)</i>	Raspberry Pi <i>(Ethan Dicks)</i>	Tools Are for Smart People <i>(Brandon Lorenz)</i>
11:00–noon		Using BDD To Build .NET Web Applications <i>(Jerrel Blankenship)</i>	Optimizing Regular Expressions <i>(Kirk Kimmel)</i>	Programming on Bare Metal: Controlling Circuits with Code <i>(Guy Royse)</i>	
12:00–1:00	Introduction to Scala <i>(Steve Roggenkamp)</i>	Fun Observational Science w/Python and a Webcam <i>(Eric Floehr)</i>	Mobile App Development With Titanium <i>(Yiguang Hu)</i>	After the Code Is Done: Ops4Dev <i>(Matt Williams)</i>	OAuth for Authentication and Data Access <i>(Mark Aufdencamp)</i>
1:00–2:00	Woo Hoo! Lunch! <i>(made possible by our sponsors)</i>				
2:00–3:00	A Rational Approach to Programming Style <i>(Dan Saks)</i>	Creating Casual Games on Windows 8 and Windows Phone <i>(Doug Mair)</i>	Intro to Numerical Computing <i>(Jeffrey Armstrong)</i>	Clojure Koans <i>(Greg Malcolm)</i>	High-Level Language Interoperability <i>(Thomas Winningham)</i>
3:00–4:00	A Whole Team Approach to Testing <i>(Jon Kruger)</i>	Failure To Launch: Code, Upload, and Explode <i>(Jeremiah Peschka)</i>	Porting an Existing Embedded System to Linux <i>(Daniel Daly)</i>		So You Think You Know JavaScript <i>(Guy Royse)</i>
4:00–5:00	The Class That Knew Too Much: Refactoring Spaghetti Code <i>(Matthew Groves)</i>	Understanding and Preventing SQL Injection <i>(Kevin Feasel)</i>	NetBeans for PHP <i>(Mark Erbaugh)</i>		
5:00 pm	Door prize drawing, wrap-up, and goodbyes				

Speaker Notes

Download the EventBoard Mobile app or visit columbuscodecamp.com for more detailed biographies.

Anand Capur is the founder of ApproveIO, a payments startup in Columbus.

Brandon Lorenz is a Columbus-based web developer who embraces easier, more productive development.

Dan Saks (*keynote*) is president of Saks & Associates, offering consulting in C and C++ in embedded systems. Dan's Programming Pointers is a feature of Embedded.com; he is co-author of *C++ Programming Guidelines*.

Daniel Daly has been developing embedded systems software for 24 years, most recently in mobile robotics. His main focus is applying C++ and Linux to embedded systems.

Doug Mair is a principal consultant at Improving Enterprises in Columbus. He has developed software for graphics kiosks, rules engines, specialized hardware, and ASP.Net websites.

Eric Floehr is the founder of Intellovations (maker of ForecastWatch) and was previously the CTO of 3X Systems. He started the Columbus Ohio Python Users Group and has chaired PyOhio the past two years.

Ethan Dicks is an IT professional with background in embedded and systems development as well as UNIX/Linux system administration. He also teaches 3D printing and other classes at The Columbus Idea Foundry.

Greg Malcolm works with Ruby and Rails and JavaScript, but also has flirtations with .NET and Python. Greg is an active contributor to open source. His fake British accent is really coming along.

Guy Royse works for Pillar Technology in Columbus as an agile coach and software engineer. He has programmed in numerous languages but has more recently been working with Ruby and JavaScript.

Jeffrey Armstrong is founder of Approximatrix, providing tools to Fortran developers and assisting in scientific code development. He has experience in a variety of programming languages, including Python, Matlab, and Fortran. His efforts have included rocket science and enterprise medical software.

Jeremiah Peschka helps developers, DBAs, and engineers build faster, robust, and scalable solutions; Microsoft SQL Server is frequently a part of that solution, but he is familiar with more than just the database.

Jerrel Blankenship is a software craftsman specializing in Microsoft technologies. During his career, Jerrel has developed a number of .NET-based software projects that run on desktop, web, and mobile environments.

Jon Kruger is an independent consultant in Columbus specializing in software solutions, project leadership, and Agile coaching and training in a wide range of industries and environments.

Josh Harrison is director of .NET Solutions with Leading EDJE. For the past decade, he has helped organizations build software applications as well as giving talks on Microsoft-related technology topics.

Kevin Feasel is a database administrator at the Ohio Department of Alcohol and Drug Addiction Services. He used to be a developer but joined the dark side because they had cookies.

Kirk Kimmel, an open-source software user and advocate for more than 15 years, specializes in optimizing/scaling existing open-source solutions and developing bleeding-edge web applications.

Mark Aufdencamp is an independent polyglot software developer with 25 years of experience primarily in Java and Ruby/Rails. He is developer and webmaster for the Human Tribe Project (<http://humantribeproject.com>), a crowd-sourced fundraising site for people experiencing health care crises.

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Mark Erbaugh is an independent software developer specializing in web development.

Matt Williams's current passions lie in the areas of Dev Ops, cloud computing, Ruby, and teaching. Previously he was a Java instructor for Sun.

Matthew Groves works on the Telligent product team, is writing a book about .NET aspect-oriented programming, and teaches web development at Capital University.

Raju Gandhi is a Java/Ruby developer and a programming-language geek. He has been writing software for several industries including education, finance, construction, and manufacturing.

Steve Roggenkamp is a software developer with more than 25 years of experience on projects including computational geometry/finite-element systems, process control, user interfaces, and document processing.

Thomas Winningham is an enterprise data scientist with more than 20 years of experience. He has worked on multimedia kiosks, digital video, enterprise systems integration, machine learning, and distributed systems.

Yiguang Hu has been a Java developer for more than 15 years, working for companies from start-ups to multinationals. His web applications use struts, JSF, and grails, while his prototyping uses groovy and grails.

Presentation Descriptions

Download the EventBoard Mobile app or visit columbuscodecamp.com for more detailed descriptions.

Keynote: Evidence-Based Software Development (*Dan Saks*) >This keynote looks at some questionable beliefs about programming tools, styles, and practices. Come ready to have your sacred beliefs challenged!

A Rational Approach to Programming Style (*Dan Saks*) >This session presents an approach toward achieving consensus on programming style by using common principles rather than arbitrary rules.

A Whole-Team Approach to Testing (*Jon Kruger*) >Come get some practical, real-world tips on how you, as a developer, can redefine what QA means to your team.

After the Code Is Done: Ops4Devs (*Matt Williams*) >Ops4Dev helps developers improve stability, repeatability, and predictability through the use of best practices for operations.

Clojure Koans (*Greg Malcolm*) >This Koans workshop teaches the Clojure language, syntax, structure, as well as some common functions and libraries.

Creating Casual Games on Windows 8 and Windows Phone (*Doug Mair*) >Covers options available for writing Windows Phone games and migrating to Windows 8 RT with MonoGame and WriteableBitmapEx.

Presentation Descriptions

Failure To Launch: Code, Upload, and Explode (*Jeremiah Peschka*) >This talk covers how to handle the effects that a cloud-based environment may have on your APS.NET application.

Fun Observational Science With Python and a Webcam (*Eric Floehr*) >This talk details using Python, a webcam, Django, PIL, a database, and the standard libraries to create art and explore science.

High-Level Language Interoperability (*Thomas Winningham*) >This talk covers concepts, pitfalls, and strategies of talking between Java, C, Python, and several environments.

Hybrid Approach to Moving to the Cloud (*Josh Harrison*) >This talk discusses the benefits and drawbacks of using al-la-carte cloud services to add value to your applications.

Intro to Numerical Computing (*Jeffrey Armstrong*) >This talk explains the programming challenges specific to numerical and scientific computing, where speed is often of the utmost importance.

Introduction to Scala (*Steve Roggenkamp*) >This talk introduces you to Scala, covers the language ecosystem, and demonstrates some of the language capabilities.

Mobile-App Development With Titanium (*Yiguang Hu*) >This talk explains Titanium, a platform for developing applications using JavaScript compiled into native Android and iOS applications.

NetBeans for PHP (*Mark Erbaugh*) >This talk covers NetBeans as a PHP development IDE: installation for editing, running, debugging, and unit testing a program with database support.

OAuth for Authentication and Data Access (*Mark Aufdenkamp*) >This talk presents the needs that drive OAuth adoption as well as compare access methodologies and client vs. server-side implementations.

Optimizing Regular Expressions (*Kirk Kimmel*) >This talk discusss how regular expressions can be optimized for big data, unicode support, and cross-language comparisons.

Porting an Existing Embedded System to Linux (*Daniel Daly*) >This talk details porting to a single-board computer running Linux, including kernel development, debugging, toolchains, pitfalls, and advantages.

Programming on Bare Metal: Controlling Circuits with Code (*Guy Royse*) >This session covers programming the Arduino, basic electronics, and a demo of controlling something in the real world with code.

Raspberry Pi (*Ethan Dicks*) >This is an introductory look at the Raspberry Pi, a \$35 single-board computer that boots Linux from an SD card and includes USB, Ethernet, HDMI, and more.

Scaling PHP (*Anand Capur*) >This talk covers using PHP to build a highly scalable infrastructure for use as a payment gateway.

So You Think You Know JavaScript (*Guy Royse*) >This session introduces some of the richness of JavaScript in an exciting game show format — complete with prizes!

The Class That Knew Too Much: Refactoring Spaghetti Code (*Matthew Groves*) >This session covers the Single Responsibility Principle, as well as how to identify and remedy non-comforming classes.

Presentation Descriptions

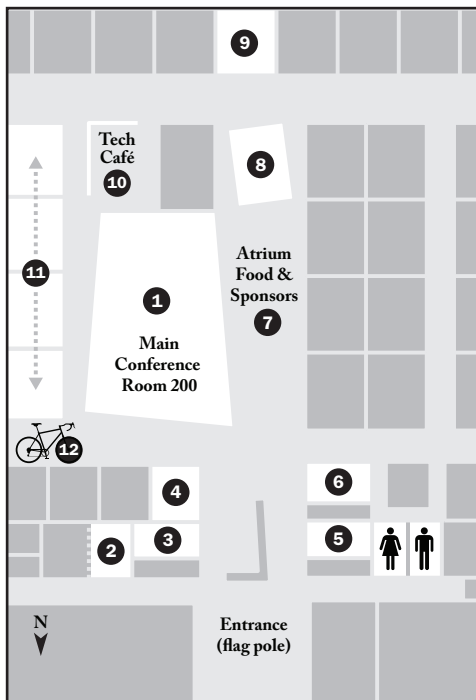
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Tools Are for Smart People (*Brandon Lorenz*) >This talk delves into the growing importance of tools in web development and how they help developers to work smart, not hard.

Understanding and Preventing SQL Injection (*Kevin Feasel*) >This talk covers SQL injection, how attackers can use it, and how to secure your sites so that your CIO and CISO never show up on the evening news.

Using BDD To Build .NET Web Applications (*Jerrel Blankenship*) >This talk shows how to use Behavior-Driven Development (BDD) to create a .NET web application, using SpecFlow and Watin.

Websites with Noir (*Raju Gandhi*) >This talk looks into the main components of Clojure-based Noir (Ring, Compojure, and Hiccup) and then show how to create a simple site using Noir.



Where to Go @ TechColumbus Building (1275 Kinnear Rd, Columbus, Ohio)

1. Main Conference Room 200
2. Classroom A - Room 104
3. Kitchen - Behold the coffee! Vending options are available, in case you aren't overjoyed by the caterer's sumptuous selections.
4. Break Room - place where folks can eat or hang out.
5. Board Room
6. Canary Conference Room 230 - will be used for "impromptu talks."
7. Atrium - Breakfast and Lunch available. Meet our sponsors here.
8. The Foster Conference Room 240
9. Walkway Lounge - quiet place for folks to hang out, and a refuge for last-minute speaker preparations.
10. TechCafé - place where folks can eat or hang out.
11. Beta Box
12. Save the environment and arrive in fashion! Park your bike inside.

Please take a moment to thank *Leading EDJE* and all of our generous sponsors for their support.

Code Camp would be less awesome without them!

