

# COLUMBUSCODECAMP

**9 AM** **OCTOBER**  
16TH, 2010

1275 KINNEAR RD., COLUMBUS, OHIO  
**TECHCOLUMBUS BUILDING**

# Schedule of Events

TIME	TRACK 1	TRACK 2
8:00–9:00 am	Doors will open for registration and breakfast, <i>made possible by our sponsors.</i>	
9:00	Opening Remarks	
9:00–9:30	Fight the Monoculture! presented by Dan Buch, <i>keynote speaker</i>	
10:00–10:30	If You Can See It, You Can Automate It: Sikuli, presented by Catherine Devlin	Finding Clojure, presented by Raju Gandhi
10:30–11:00		
11:00–11:30	Google Web Toolkit, presented by Yiguang Hu	Fortran 90: It's Not Your Father's FORTRAN, presented by Jeff Armstrong
11:30–12:00 pm		
12:00–12:30	Ruby Koans and Friends, presented by Greg Malcom and Marc Peabody	Extending Cocoa classes using the Category+Swizzle pattern, presented by John Wallace
12:30–1:00		
1:00–1:30	Lunch, <i>made possible by our sponsors</i>   “lightning talks”   door-prize drawings (books, software, gift certificates and more; visit columbuscodecamp.com for details)	
1:30–2:00		
2:00–2:30	Cucumber and Cheese, presented by Jeff Morgan	Mobile App Development Is So Freakin' Easy!, presented by Jeff Blankenberg
2:30–3:00		
3:00–3:30	Refactoring SQL Applications, presented by Jeremiah Peschka	Android with and without water wings, presented by Christopher Slee
3:30–4:00		
4:00–4:30	You, presented by Leon Gersing	Communicating with Perl and Arduino, presented by Robert Blackwell
4:30–5:00		
5:00 pm	Wrap-up   Goodbyes   final door-prize drawings	

## KEYNOTE

### Fight the Monoculture! (*Dan Buch*)

Diversity isn't something one should be promoting out of a sense of responsibility or guilt. Diversity is one of the most critical measures of a social group's health and viability. By taking cues from the fields of evolutionary biology, sociology and economics, the software industry can be advanced into a new (and exciting!) era of creative problem-solving. Not doing so may result in catastrophic failure.

# Presentation Descriptions

## Track 1

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### **If You Can See It, You Can Automate It: Sikuli** (*Catherine Devlin*)

Your computer should save you from doing tedious and repetitive tasks yourself, but automation programming has been too difficult for casual users. MIT's Project Sikuli changes that. It fuses traditional text-base scripts with actual screenshots of targets on your screen, making programming simple, versatile, and useful. If you've ever told a friend, "Go here, now click on this, then on that", you know enough to start using Sikuli.

### **Google Web Toolkit** (*Yiguang Hu*)

This talk will explain the Google Web Toolkit (GWT), GWT architecture, and why you would want to use GWT. In addition, it will include a demo of GWT and the recently released GWT Designer (a tool that makes GWT development easy and that makes it fast to generate a complicated UI).

### **Ruby Koans and Friends** (*Greg Malcom, Marc Peabody*)

The Koans walk you along the path to enlightenment in order to learn Ruby. The goal is to learn the Ruby language, syntax, structure, and some common functions and libraries. We also teach you culture. Testing is not just something we pay lip service to, but something we live. It is essential in your quest to learn and do great things in the language. Already completed Ruby Koans? Nowadays the Koans come in many other mouth-watering flavors! Maybe you'll be charmed by Python Koans. Or perhaps work on your Javascript chops.

### **Cucumber and Cheese** (*Jeff Morgan*)

Cucumber is a great tool for Acceptance Test Driven Development. And yet the way it is used by most teams yields tests that are very brittle and hard to maintain. I'll discuss my experience as an Agile Coach helping numerous teams implement Cucumber in an enterprise setting. In this discussion I will present design patterns that allow testers to create clean easily maintainable scripts.

### **Refactoring SQL Applications** (*Jeremiah Peschka*)

Refactoring SQL is not like refactoring application code. This talk will demonstrate proven SQL refactoring techniques that will help you identify where performance gains can be made, apply quick fixes, improve readability, and help you quickly locate places to make sweeping performance improvements. Jeremiah Peschka has years of hands on experience tuning SQL applications for performance, throughput, and concurrency.

### **You** (*Leon Gersing*)

This talk is based on my personal experiences (as well as those of my colleagues, friends) and on expert opinion from various psychologists regarding 50% of every relationship... you. It doesn't matter the context-- when you're dealing with people, you're in a relationship. How we navigate and deal with these relationships can provide inspiration to success and motivation to innovate; however, when there is a violation of trust and the "self" is traded for someone else's benefit we are left with shame, despair and isolation. This talk is about empowering the developer to find their voice, their inspiration, their identity in an ever-changing and difficult-to-navigate world of varied interpersonal relationships. Learn to interact positively, resolve conflict, express your feelings, set healthy boundaries and find the You in every relationship.

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# Presentation Descriptions

## Track 2

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### **Finding Clojure** (*Raju Gandhi*)

Clojure is a modern dialect of Lisp that runs on the JVM (and the .Net platform). Clojure is a functional programming language with a strong emphasis on pragmatism and performance. Clojure has been designed with concurrency in mind and provides several constructs to write multi-threaded programs. This talk will introduce the language, its syntax and a very brief overview of the concurrency constructs that Clojure provides. We will discuss Clojure's approach to functional programming and state management.

### **Fortran 90: It's Not Your Father's FORTRAN** (*Jeff Armstrong*)

Many developers hold the misconception that Fortran is an ugly, outdated language. This talk will dispel that myth by showing the features of Fortran 90 (newer versions): modules, vectorized mathematics, pointers, and integration with other languages. This talk includes example code featuring the advantages of Fortran.

### **Extending Cocoa classes using the Category+Swizzle pattern** (*John Wallace*)

The iPhone is all the rage. Not only does it provide a compelling end-user experience, but behind the scenes is a coding environment with features unlike those found in Java and C++. This talk shows how to extend Cocoa classes using a language feature called categories, and how to use a technique called swizzling to override existing methods in Cocoa classes. Using this technique you can modify the behavior of a base class so that all subclasses inherit that behavior, including subclasses where you don't have the source and cannot change their class parenting.

### **Mobile App Development Is So Freakin' Easy!** (*Jeff Blankenberg*)

You've certainly noticed that writing apps for mobile devices is the new hotness, and with the introduction of Windows Phone 7, it's now easy to do. This presentation will cover some of the basic concepts behind mobile app development, including: push notifications, event driven interfaces, and integrating with the Windows Phone 7 operating system.

### **Android with and without Water Wings** (*Christopher Slee*)

Have an idea for a mobile app and want to try your hand at Android? We will build an app using two development environments. Google app inventor and Eclipse/Android SDK and see the differences. The first is for learning how to swim, the other assumes you know what you're doing (and you will after this talk).

### **Communicating with Perl and Arduino** (*Robert Blackwell*)

This talk will get you going using Arduino, an open-source electronics prototyping platform. You will learn the "Hello, World" blinking LED sketch. From this basic sketch I will expand to show you how to begin communicating with the Arduino and Perl. You will learn how to take input from the outside world to control events in your Perl programs. You will learn how to control the outside world using Perl. These basic skills will open up your I/O world and you will use Perl to glue it together of course. More information about Arduino can be found here, <http://www.arduino.cc/>.

# Speaker Notes

Vist [columbuscodecamp.com](http://columbuscodecamp.com) for more detailed biographies.

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**Jeff Armstrong** is an aerospace engineer and software developer with years of experience designing and implementing numerical simulations in a variety of languages, including Fortran, Matlab, and Python.

**Robert Blackwell** is a parent, a Pittsburgher, and a Perl programmer as well as the co-organizer of the Pittsburgh Perl Workshop and the 10th Yet Another Perl Conference.

**Jeff Blankenburg** is an ultra-passionate web developer who works for Microsoft. As a Developer Evangelist, he has the unique responsibility to consult and advise software developers about the new tools, technologies, and practices available to them.

**Dan Buch**, *keynote speaker*, has been a full-time Python developer for the past 4 years. He is especially interested in Web and command-line programming; Python package distribution; and CPython internals.

**Catherine Devlin** accidentally became a database administrator late in the last millenium. She is the chair of PyOhio and works for IntelliTech Systems.

**Raju Gandhi**, a Java/Ruby developer and a programming language geek. He has been writing software for the better part of a decade in several industries including education, finance, construction and the manufacturing sector. Raju has a graduate degree in Industrial Engineering from Ohio University.

**Leon Gersing** has been bringing value to clients large and small for over ten years using technologies such as ASP.Net, C++, Objective-C, Ajax, and Actionscript as well as Ruby and Rails. Leon can be found tending binary zen gardens with fellow artisans at EdgeCase Software Artisans.

**Yiguang Hu** is a senior software engineer at OCLC. He has been developing applications for over ten years for nonprofits and start ups as well as large multinational companies in areas such as telecom, e-commerce, and web sites. He has used languages from Z80 assembly to C/C++, PHP to Java and Groovy.

**Greg Malcolm** has had a passion for writing code since the 80s, and is now a bit of a serial dabbler, currently working with projects in Ruby, Python, .NET and Javascript.

**Jeff “Cheezy” Morgan** has spent 23 years in the corporate IT, holding various roles including Senior Developer, Manager of Application and Enterprise Architect, and Director of Technology. He is currently Chief Technology Officer at Lean Dog Software Studio.

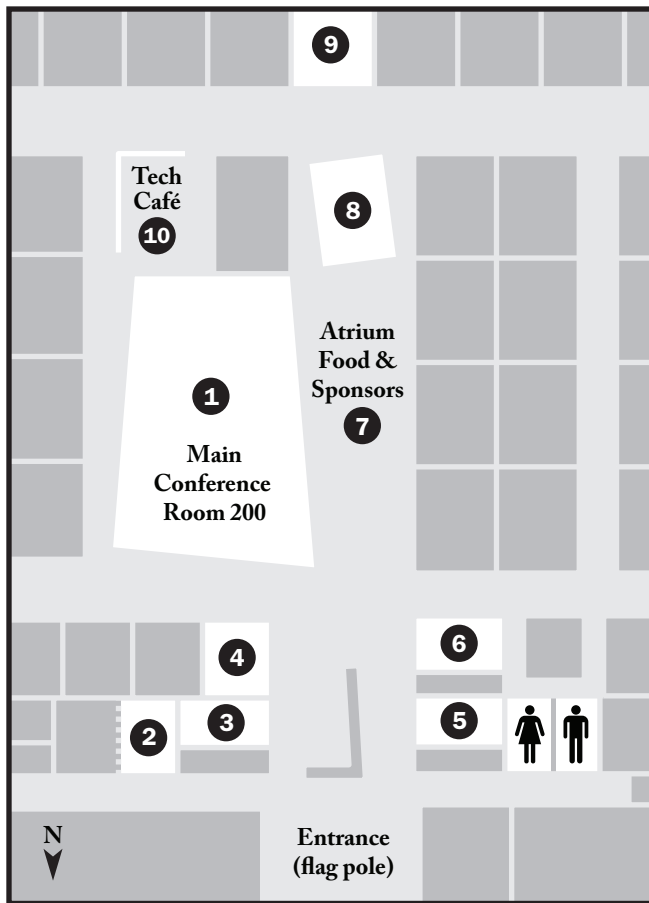
**Marc Peabody**’s background in Java lead to a fascination with other JVM languages after he learned of the power and elegance of Ruby not possible in Java. Marc brings the power of the Ruby language to Java enterprises with the help of JRuby.

**Jeremiah Peschka** is an Emerging Technology Expert with Quest Software. He works with different software to identify new techniques and trends in the world of data storage. Previously, Jeremiah has worked as a system administrator, developer, and DBA.

**Christopher Slee** co-founded software development company AWH in Dublin, Ohio and has grown the company on his passion for creating great software and websites that make customers happy.

**John Wallace** is a co-founder at Apps Incorporated, a company specializing in apps for iPhone, iPad, and Android. John’s interests include agile and test-driven development; UI design; Cocoa; and Objective-C.

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## Where to Go @ TechColumbus Building

1275 Kinnear Rd, Columbus, Ohio

1. Main Conference Room 200 - Track 1 presentations
2. Conference A Room 104 - Track 2 presentations
3. Kitchen - Behold the coffee!
4. Break Room - place to eat or hang out
5. Board Room - for continuing sessions after the time allotments (priority given to Track 2)
6. Canary Conference Room 230 - for continuing sessions after the time allotments (priority Track 1)
7. Atrium - Breakfast and Lunch available. Also, meet with the sponsors here.
8. The Foster Conference Room 240 will be used for "impromptu talks."
9. Walkway "lounge" with couches and chairs for people to hang out.
10. TechCafé has tables and chairs where folks can eat or hang out; Vending options are available, in case you aren't overjoyed by the sumptuous selections for breakfast and lunch provided by the caterers.

Columbus Code Camp is presented in part through the generous support of Dell KACE, a provider of the leading Systems Management Appliances.

*Thank you Dell KACE and all of our sponsors.*

Please take a moment to thank our generous sponsors. Code Camp would be less awesome without them.



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