

Java™ magazine

By and for the Java community



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Develop, deploy, and manage your applications in the cloud with Java EE and Oracle Java Cloud Service

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2013 DUKE'S CHOICE AWARDS



CMS or Portal? Choosing the Right Technology

dotCMS CTO Will Ezell takes a look at trends driving change for content management

Q Why do companies have trouble deciding between these systems?

There's a fair amount of overlap between a CMS and a portal—many portal tools contain rudimentary content management tools.

But while companies may be able to use a portal in place of a CMS system, getting it to look and act the way you like might be difficult. You might end up trying to hammer a square peg into a round hole.

How so?

Companies often choose to use portals for their document libraries or content-rich intranets. The issue is that portals are really just frameworks intended to provide an aggregated view into multiple enterprise applications based on a user's profile. Think of the old My Yahoo pages, which contained a lot of customizable, lightweight widgets—it turns out that the widgets were too lightweight and users inevitably would leave for the fuller experience of the native sites.

The real problem is that today's business users expect any site—web, mobile, even intranets—to look and interact in ways that portals weren't designed for.



Will Ezell, CTO, dotCMS

So it's a question of function not meeting need?

Portals are good at what they are designed for, but can be cumbersome to build in. They require your sites to function in a specific way, which makes it hard on your users. And these days, users are used to dealing with websites and apps that are flexible, intuitive, and very easy to use. Turns out, your workforce wants their work-related web experiences to be just as simple and easy as their consumer experiences.

So CMS systems like dotCMS are built to address ease of use?

Absolutely. If your team has ever wrestled with the look, feel or interactivity of your portal-driven site or intranet, you should consider dotCMS. DotCMS is designed from the ground up to manage and seamlessly deliver role-based content, sites, mobile sites, intranets and applications without impacting interactivity or imposing rigid look-and-feel requirements. It moves content and user experience to the center of the equation, where it belongs. We basically provide the development tools and get out of the way.

How do Java developers react to working with dotCMS?

When J2EE developers hear from a business unit, "I need ABC web site that does XYZ," they instinctively reach for a portal framework.

It turns out that a CMS might offer an easier, more flexible platform for delivering such sites and apps. DotCMS is based on familiar open standards such as OSGi, CMIS, Spring, Struts, Hibernate, Velocity and Elasticsearch, which also means that developers can take our code base and customize it to do whatever they need.

Our UI is very straightforward and easy to comprehend; we tried to make dotCMS as approachable and simple as possible. Plus, our use of loosely coupled RESTful APIs means that you can read/write content and apps to any 3rd-party web-based system, be it php, .NET or J2EE. It's just much easier to respond to changes and manage any given site or content.

And this may be the best part: it's a fraction of the price of most portal solutions in this space.

For more information visit dotCMS.com



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JAVAONE SHANGHAI



JavaOne Shanghai was held July 22–25 at the Shanghai Expo Center. Here are a few highlights:

Geeks ride. Now a tradition around the world, the Geek Bike Ride preceded JavaOne. In matching bike jerseys (pictured above), more than 50 riders enjoyed a ride near the Huangpu River. In deference to more than 90-degree heat and high humidity, the group stopped for refreshments halfway through the ride. It was great fun and camaraderie.

Java user group (JUG) meeting. On Sunday, the Green Tea JUG took advantage of the speakers coming to China for JavaOne. More than 150 developers heard speakers from Oracle, IBM, and Alibaba on topics ranging from Java EE new features to OpenJDK best practices. JUG leader **Leo Yu** said, “It was a great event!”

Embedded discussion. A panel discussion on “Embedded to the Enterprise” was held at the Asia Pacific Oracle User Group Summit. The discussion focused on the instrumental role of Java EE for the Internet of Things and the cloud going forward.

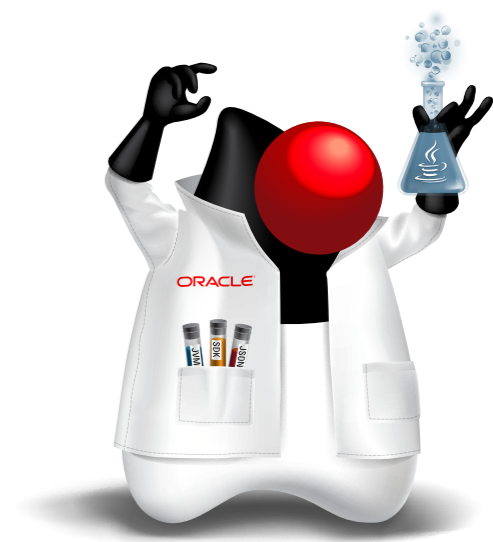
Java EE 7. Just released, Java EE 7 was a hot topic at the technical keynote. Java EE 7 content included a hands-on lab and sessions on the platform, WebSocket, and batch processing. An Oracle Java Cloud Service hands-on lab was also offered.



Alex Mironenko shows demos of embedded Java in action.



Simon Ritter goes head to head with Tori Wildt at JavaOne Shanghai.



Meet Scientist Duke

Each year, Oracle releases a personality for Duke, the official mascot of Java technology.

The latest is Scientist Duke. Much like a genius developer would with Java technologies, Scientist Duke is engaged in developing, mixing, and testing the latest ingredients to create the greatest formula/product/innovation ever. Last year, Adventure Duke was off on a mission to find the latest Java wonders around the world. 2011 unveiled Future Tech Duke, and 2010 brought us Surfing Duke.

Oracle Publishers Program

Oracle Publishers Program works with participating independent publishers to support the creation of high-quality technology books and related materials that focus on Oracle technologies. Independently published technology books are valuable in many ways, including raising awareness of Oracle products; making Oracle technology approachable for beginners; helping our customers be more successful; increasing product adoption; and generating buzz for new products and technologies. Oracle believes that publishers and authors are critical evangelists for Oracle, and that it is important to support the publication of Oracle technology books for the retail marketplace.

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Don't miss these Oracle Press author sessions at JavaOne!

Ed Burns is a Senior Staff Engineer for Oracle where he chairs the JSR 344 (JSF 2.2) Expert Group. He is the leader of JavaServer Faces and has used Hudson extensively.

- JSF 2.2 New Features in Context [CON3294]
- JSF for Multitenant-Enabled Applications [CON3298]
- What's New in Portlet 3.0 and JSF 2.2 [CON7809]

Winston Prakash is the Eclipse Hudson project leader and an expert on its architecture and implementation.

- Hudson: The Little Heart of Big Enterprises [CON3025]

Danny Coward is a software architect for the Java Platform and was the Specification Lead for JSR 356 – Java WebSocket.

- JSR 356: Inside the Java WebSocket API [CON3436]

Coming soon—available for preorder

Java EE Applications on the Oracle Java Cloud
Harshad Oak

Java EE and HTML5 Enterprise Application Development
Geertjan Wielenga, Arun Gupta, John Brock

Mastering Lambdas: Java Programming in a Multicore World
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Java: The Complete Reference, 9th Ed.
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Hudson Continuous Integration in Practice

Ed Burns and Winston Prakash

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Java WebSocket Programming

Danny Coward

Create, deploy, and secure dynamic enterprise server and client applications with the WebSocket protocol.



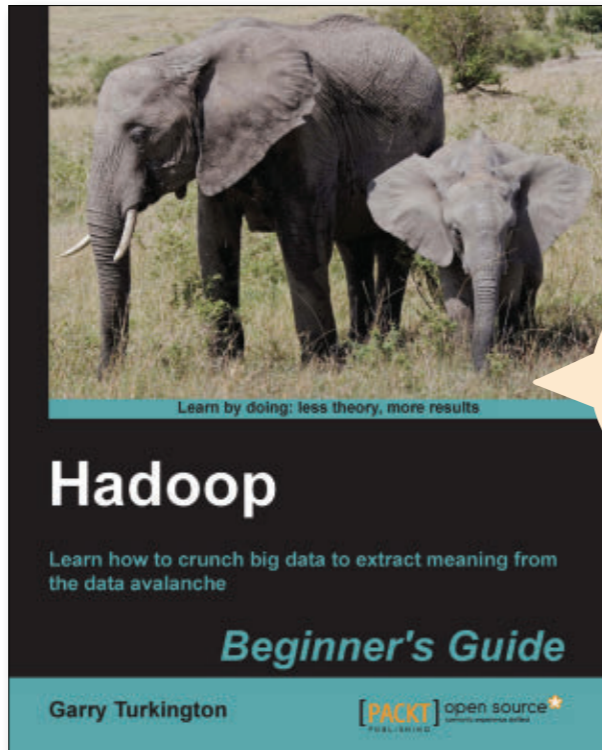
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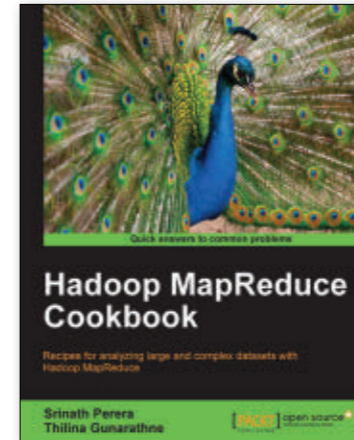
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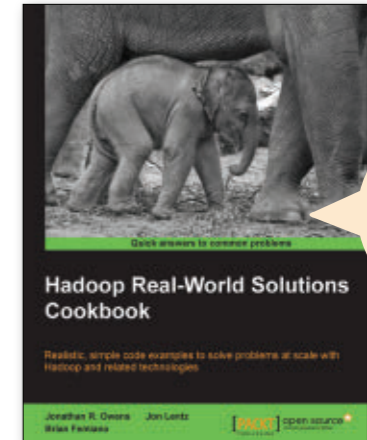
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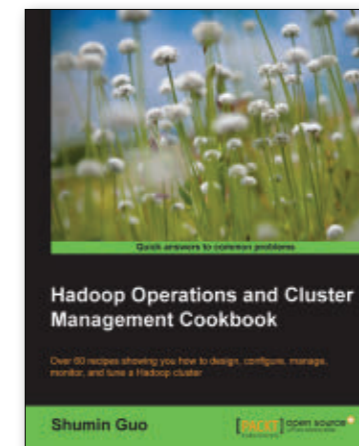


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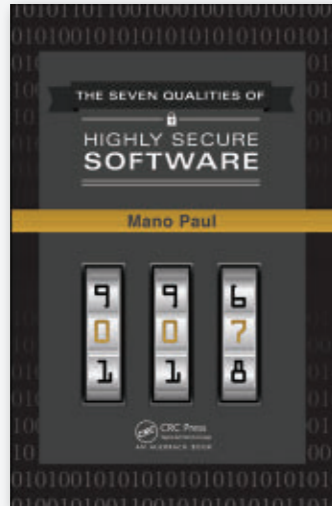
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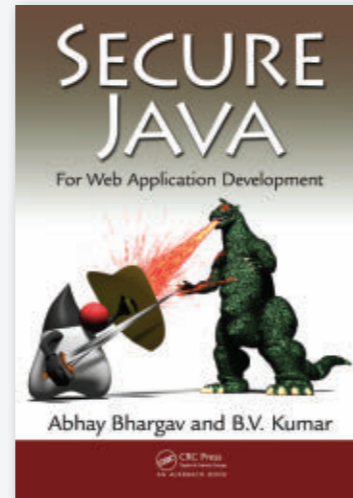


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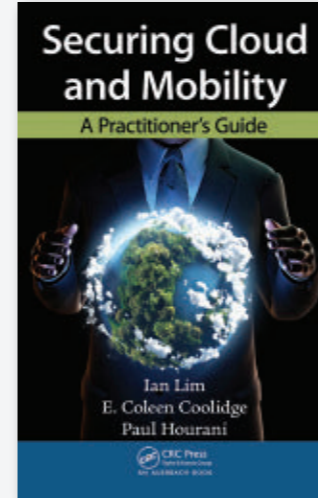
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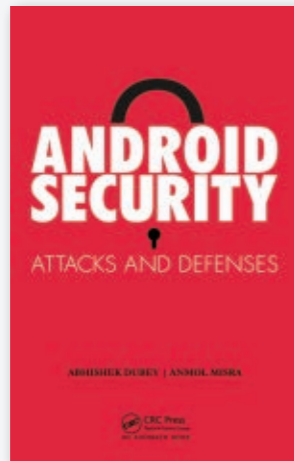
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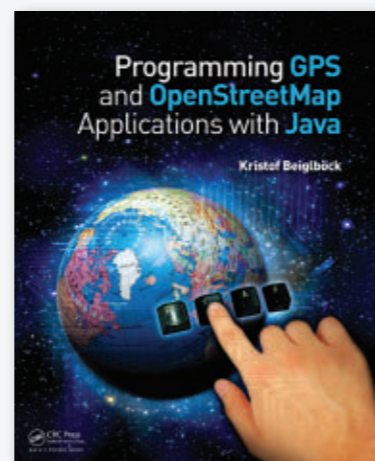
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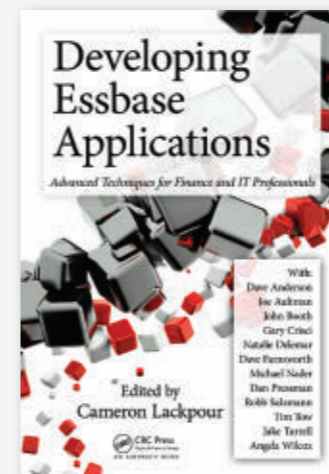
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Web applications in pure Java?

For over a decade, the web and internet have been the platform for all kinds of applications – personal and business. The biggest benefit of a web application has been the easiness to reach the audience's desktops without software installations, with a single deployment.

But at the same time we have been pushing the limits of browser technologies, most importantly HTML and JavaScript, to create even better user interfaces that meet the expectations.

The key elements in the architecture of a web based system are of course the browser and the application server.

There has been a long lasting fight over which side the applications should run on. In the browser you can have better responsiveness, interactivity and visuality for the

“Vaadin introduces a familiar user interface architecture that is based on Java classes, components and widgets.”

user, but server-side environment is much easier to manage – mostly because of solid component and service oriented architectures like Java EE. But what we want to have is best of both worlds.

Vaadin is an open-source web application architecture that brings more balance to this server-client fight or dilemma. Vaadin introduces a familiar user interface architecture that is based on Java classes, components and widgets. It is very quick to learn.

The key feature is that widgets functionally span from server to client. Think of a 3D animated overflow widget where the data is programmatically and securely bound in the server, but we have these fancy scroll effects using the latest browser technology. All this seamlessly in a single logical component.

Heavily based on object oriented Java language and dynamic loading and management of runtime components in Java EE, Vaadin brings you the reusability, expressiveness and programmatic easiness you already saw in old Java Swing applications. This time for pure web applications. In pure Java language.

LEARN MORE

- [JavaOne 2013 booth #5106](#)
- [The Vaadin open source project: vaadin.com](#)
- [Live demo: vaadin.com/demo](#)

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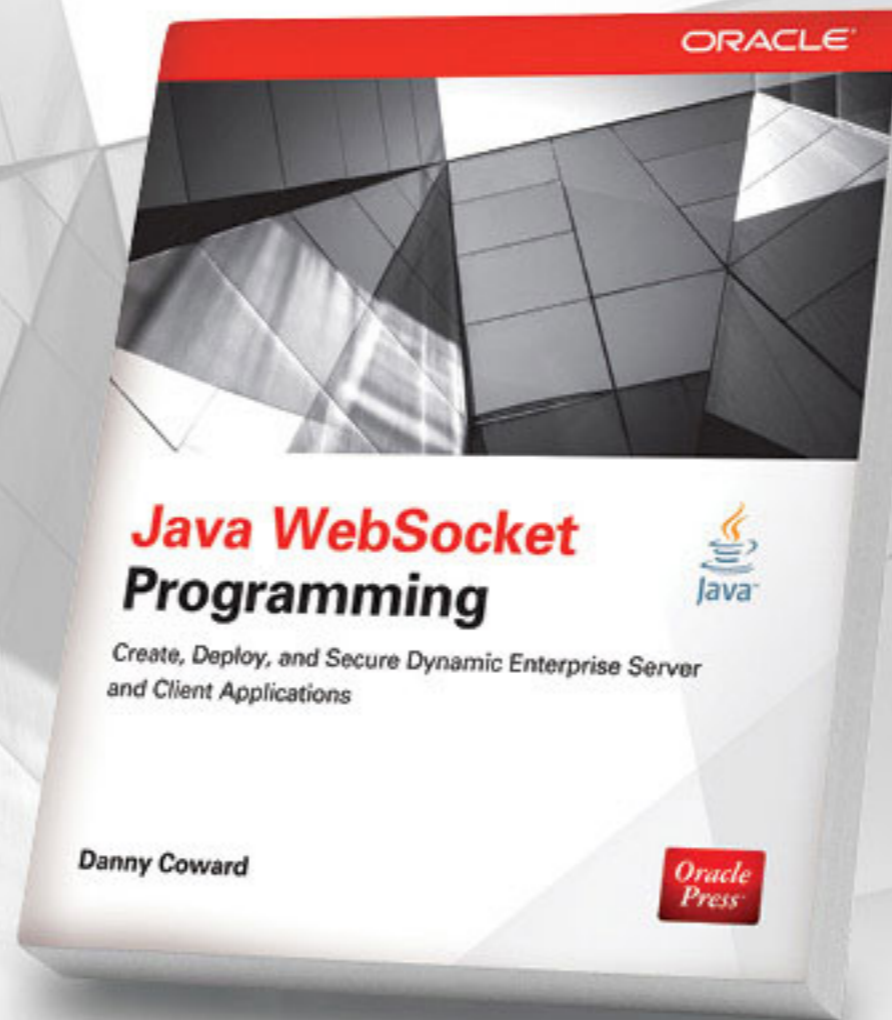
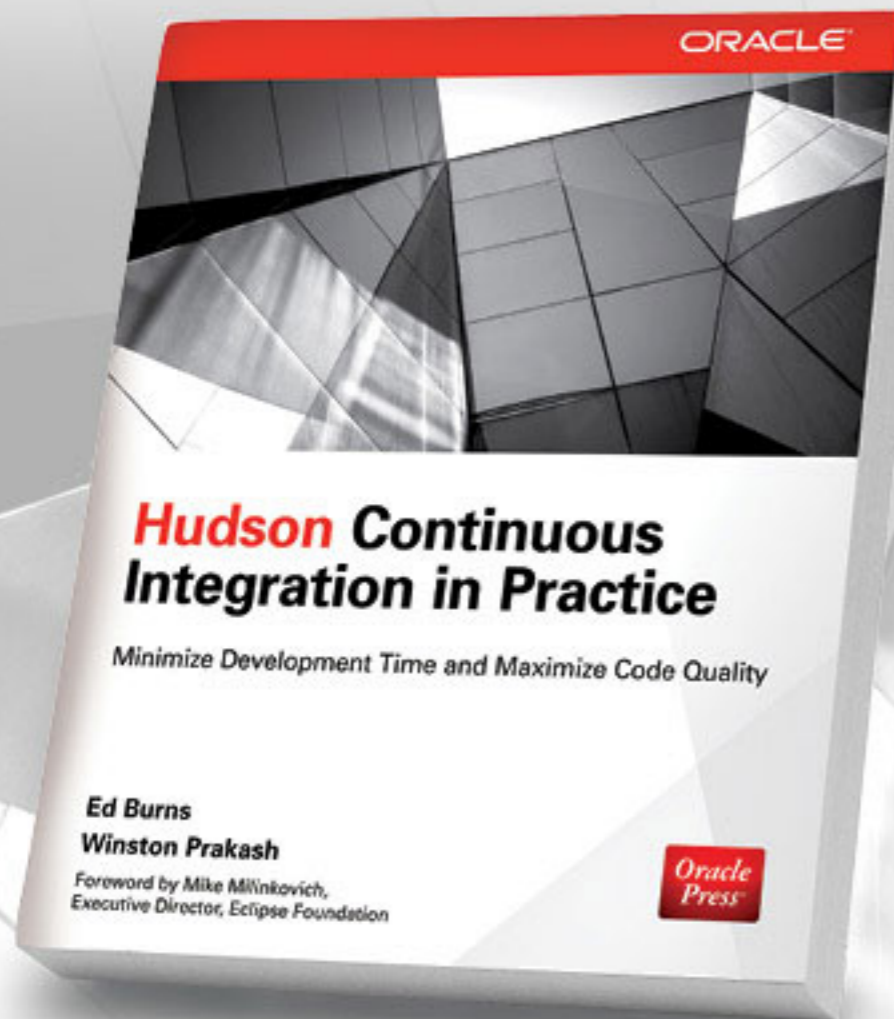
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