

Be sure to check out our new [Blogs](#) and discover all the new Free Training!



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## Newsletter for Computer IT Education, Training & Tutorial Resources

**\*\*\* ISSUE #69 - July 2007 \*\*\***

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**formerly [www.intelinfo.com](http://www.intelinfo.com)**

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[Intelligentedu.com/newsletter69.html](http://Intelligentedu.com/newsletter69.html)

Newsletter Archives are here:  
[Intelligentedu.com/newsletter.html](http://Intelligentedu.com/newsletter.html)

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## **1) Editor's Greeting:**

Hello everyone, and welcome to our new subscribers!

This is the July 2007 issue (#69) of our free monthly newsletter for Computer IT Education, Training, & Tutorial Resources providing you with the latest Free online IT Training Resources that we have recently discovered and researched. This newsletter is free to anyone subscribing ([instructions](#) at bottom, no username/password is needed). To access our member site, however, you do need a user name and password - registering as a member of [Intelligentedu.com](http://Intelligentedu.com) costs \$15 for two months, for more information please see [Become a Member of Intelligentedu.com](#).

My desire is that these free resources will help you with your computer education and training and are tools to advance your IT career. Our main mission is the training of those less fortunate who are seeking to become computer literate, both technically and from a user's perspective.

In this issue we describe and link to a total of 242 computer, IT and programming learning and tutorial web sites. By means of this email newsletter, you have knowledge of and access to these sites before our web site visitors do.

**\*\*\*Current News \*\*\***

Please take a look at our [Blogs](#), We post on a daily basis to these blogs all **New Free Training and Tutorial Resources**, as we discover and evaluate them, here are the links:

[Best New Free Technical Computer and Development Training Sites](#)

[Free Computer, Technical, and IT Books](#)

[Our 3 Blogs for EducationOnlineForComputers.com](#)

- [Web Development](#) - [Adobe & Macromedia](#) - [Microsoft Office](#)

To get your [Free Computer Training updates via RSS](#), please cut and paste this urls into your RSS reader:

<http://www.intelligentedu.com/blogs/feed/>

**Please Visit Our New [Free Training & Tutorial Search Engine](#)** - this new website at [www.EdComp.com](http://www.EdComp.com) is a search engine with a large database of over 150,000 free IT education and training web resources, with another 70,000 free resources reserved exclusively for paid members. If you're an Intelligentedu.com Member, go to [members.Edcomp.com](http://members.Edcomp.com) to access the special members' page for searching over 220,000 free training web resources.

All of the links for these 220,000 free web resources have been validated, so you should not get any broken ones. We are also caching all previous results pages to help you find all the free training content and materials you need and are looking for. So check out our new free IT training search engine now, and if you'd like to, please provide me your feedback. Again, the url is: <http://www.edcomp.com/>.

Thank you.

For your convenience, this newsletter is also available to subscribers in HTML

format at this special url: [http://www.intelligentedu.com/current\\_news.html](http://www.intelligentedu.com/current_news.html)

I wish you the best with your computer studies and learning.

Warm Regards,  
Scott Turton  
Newsletter Editor and Webmaster  
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<http://www.intelligentedu.com/>

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**"Learn New Skills and Increase Your Earning Power  
- With Free Online Computer Training!"**

\*\*\* [Become a Member of Intelligentedu.com](http://www.intelligentedu.com) \*\*\*

Our Members' Site contains the web's best computer and IT training resources and tutorials. This content is individually linked and presented in a way to expedite and facilitate your IT learning experience. We have done all the web research and presentation work for you so you can concentrate solely on your computer training. For short FAQ Answers, please see the end of this newsletter.

The total price to join as a member is only \$15.00 total for 2 months, \$25 for 4 months, \$34 for 6 months, or \$59 for a whole year. The funds generated will assist us to help all those seeking IT education and application development training. Here's the link to see what's available on our member's site and to sign up:  
<http://www.intelligentedu.com/sign-up/index.html>.

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**EdComp.com:**  
<http://www.edcomp.com/>

This is our new free computer and IT education and training search engine housing over 220,000 free training internet resources! Just type in a topic you're

looking for and get tons of great web resources instantly. These search results are much better than the big search engines, like google. You can also check out our predefined search results page giving you tons of free training resources:  
<http://www.edcomp.com/predefined.htm>.

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**EducationOnlineForComputers.com:**

<http://www.educationonlineforcomputers.com>

Our new software application and office training and tutorial site, EducationOnlineForComputers.com, is now up and running. We give you Free access to hundreds of Free Training and Tutorials covering Microsoft Office, Flash, Photoshop, Dreamweaver and FrontPage. We also provide you a member site for the best available online software application training. You can sign up for the Free Newsletter here:

[http://www.educationonlineforcomputers.com/optin\\_newsletter.html](http://www.educationonlineforcomputers.com/optin_newsletter.html)

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**-> Here are Your 3 Rewards for Subscribing to this Newsletter <-**

**\*\*\* Free Online IT Training Materials for Subscribers \*\*\***

This section of our site contains over 2,000 free IT, computer and programming training resource links:

[http://www.intelligentedu.com/free\\_it\\_training\\_materials\\_and\\_books.html](http://www.intelligentedu.com/free_it_training_materials_and_books.html)

**\*\*\* Free Online Computer Training and Tutorial Resources \*\*\***

Containing over 8,000 free IT training and tutorial resources, this section of our site is available only to our newsletter subscribers and web site members:

[http://www.intelligentedu.com/newly\\_researched\\_free\\_training.html](http://www.intelligentedu.com/newly_researched_free_training.html)

**\*\*\* Free e-Book: "Understanding Computer Security" \*\*\***

Our new e-book contains the best information from U.S. government agency computer security papers and guides and presents it in a coherent and understandable manner. My hope is that this e-book will make computer security easier to learn. Click here to receive your Free Copy:

[http://www.intelligentedu.com/Understanding\\_Computer\\_Security.zip](http://www.intelligentedu.com/Understanding_Computer_Security.zip) (553 kb).

When unzipped it is a windows executable.

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## 2) The Best New Free I.T. Training & Tutorial Sites:

This section of our newsletter contains the best new free IT training and tutorial sites that we have found and researched in the last few weeks. These resources will be added to our Free IT Training & Courses page at [Intelligentedu.com/cat1.html](http://Intelligentedu.com/cat1.html), our Free IT Tutorials and Guides page at [Intelligentedu.com/cat2.html](http://Intelligentedu.com/cat2.html), or to our [members' site](#).

### **EdComp.com:**

<http://www.edcomp.com/>

This is our new Free computer and IT education, training and tutorial search engine housing over 150,000 free training internet resources! Just type in a topic you're looking for and get tons of great web resources instantly. We believe these results are better than the big search engines, like google.

You can start searching right now using this form:

Here are a few search results to get you started:

#### **Web Development:**

<http://www.edcomp.com/results/web+programming.html>

<http://www.edcomp.com/results/web+development+tutorial.html>

<http://www.edcomp.com/results/web+tutorial.html>

<http://www.edcomp.com/results/css.html>

### **Java Learning Resources:**

<http://www.edcomp.com/results/java+tutorial.html>

<http://www.edcomp.com/results/java+2.html>

<http://www.edcomp.com/results/java+servlets.html>

<http://www.edcomp.com/results/j2ee+tutorial.html>

### **Linux Tutorials:**

<http://www.edcomp.com/results/linux.html>

<http://www.edcomp.com/results/linux+tutorials.html>

<http://www.edcomp.com/results/linux+programming.html>

<http://www.edcomp.com/results/linux+.html>

### **XML Tutorials:**

<http://www.edcomp.com/results/xml.html>

<http://www.edcomp.com/results/xml+tutorials.html>

<http://www.edcomp.com/results/xslt.html>

<http://www.edcomp.com/results/xsl+tutorial.html>

<http://www.edcomp.com/results/xpath.html>

### **C++ Tutorials:**

<http://www.edcomp.com/results/c++-tutorials.html>

<http://www.edcomp.com/results/c++.html>

<http://www.edcomp.com/results/c++-programming.html>

### **A+ Tutorials and free practice questions:**

<http://www.edcomp.com/results/a+.html>

<http://www.edcomp.com/results/comptia+a+.html>

<http://www.edcomp.com/results/comptia+a+-study+guides.html>

<http://www.edcomp.com/results/a+-tutorials.html>

### **iNet+ Tutorials:**

<http://www.edcomp.com/results/inet+.html>

<http://www.edcomp.com/results/i-net+.html>

### **Network+ Tutorials:**

<http://www.edcomp.com/results/network+.html>

### **MCSE preparation:**

<http://www.edcomp.com/results/mcse.html>  
<http://www.edcomp.com/results/70-290.html>  
<http://www.edcomp.com/results/70-291.html>  
<http://www.edcomp.com/results/70-293.html>  
<http://www.edcomp.com/results/70-294.html>  
<http://www.edcomp.com/results/70-296.html>  
<http://www.edcomp.com/results/70-297.html>

**.Net:**

<http://www.edcomp.com/results/dotnet.html>  
<http://www.edcomp.com/results/dot-net.html>  
<http://www.edcomp.com/results/dotnet+tutorials.html>

**C#:**

<http://www.edcomp.com/results/c#.html>  
<http://www.edcomp.com/results/csharp.html>  
<http://www.edcomp.com/results/c#+tutorial.html>  
<http://www.edcomp.com/results/csharp+tutorial.html>

**Windows 2003:**

<http://www.edcomp.com/results/windows+2003.html>  
<http://www.edcomp.com/results/windows+server+2003.html>

**Intelligentedu.com paid Member-only search with 70,000 more free resources:**

<http://members.edcomp.com/index.aspx>

If you forgot your password please go here to retrieve it:

<http://www.intelligentedu.com/amember/member.php>

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**[TrainingByEmail](#)**

Visit [TrainingByEmail](#) to receive **Free Training for C#, ASP.Net, SQL, Word, Excel, and Outlook**, via your email every week! We will send out a new training



in the topic of your choosing every week. You can then save this, print it out, or delete it all at your convenience. And you can't beat the price, FREE!

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## **[Intelligentedu Online Library of Training Courses](#)**

This is another one of our new Free training and tutorial sites, providing over 450 free online IT tutorials. Tutorials range from entry level training on using word processors through to advanced techniques in programming, web development, database design, and network routing. In-depth courses are also available at low cost.

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## **[AJAX Articles and Tutorials from Mozilla](#)**

Asynchronous JavaScript and XML ([AJAX](#)) is a method, or model, of using existing technologies in combination together. These include: [HTML](#) or [XHTML](#), [Cascading Style Sheets](#), [JavaScript](#), [The Document Object Model](#), [XML](#), [XSLT](#), and [XMLHttpRequest](#). When these technologies are combined in the AJAX model, web applications have the ability to make fast, incremental updates to the user interface without reloading the entire browser page, thus the application becomes quicker and more responsive to user actions.

The following are [AJAX Articles and Tutorials](#) hosted and linked from Mozilla.org that will help you learn how to use and code with the AJAX model. These will teach you and show you how to use many useful AJAX coding techniques.

## **[AJAX: Getting Started](#)**

- [1 What's AJAX?](#)
- [2 Step 1 – say "Please!" or How to Make an HTTP Request](#)

- [3 Step 2 – "There you go!" or Handling the Server Response](#)
- [4 Step 3 – "All together now!" - A Simple Example](#)
- [5 Step 4 – "The X-Files" or Working with the XML Response](#)
  
- [AJAX: Community](#)
- [AJAX: Other Resources](#)
- [A Simpler Ajax Path \(external\)](#)
- [AJAX Patterns: Design Patterns for AJAX Usability \(external\)](#)
- [AJAX and scripting Web services with E4X, Part 1 \(external\)](#)
- [AJAX and scripting Web services with E4X, Part 2 \(external\)](#)
- [AJAX with JavaScript disabled \(external\)](#)
- [ARIA: Accessible Rich Internet Applications](#)
- [Ajax Mistakes \(external\)](#)
- [Ajax: A New Approach to Web Applications \(external\)](#)
- [Core JavaScript 1.5 Guide](#)
- [Core JavaScript 1.5 Reference](#)
- [Fixing the Back Button and Enabling Bookmarking for AJAX Apps \(external\)](#)
- [Guide to Using XMLHttpRequest \(external\)](#)
- [Guide to Using XMLHttpRequest \(with Baby Steps\) \(external\)](#)
- [How to create a DOM tree](#)
- [Key-navigable custom DHTML widgets](#)
- [Online and offline events](#)
- [Parsing and serializing XML](#)
- [Using XPath](#)
- [Very Dynamic Web Interfaces \(external\)](#)
- [XMLHttpRequest](#)
- [XMLHttpRequest at XULPlanet \(external\)](#)
- [nsJSXMLHttpRequest at XULPlanet \(external\)](#)
- [nsXMLHttpRequest at XULPlanet \(external\)](#)
- [nsXMLHttpRequest.idl \(LXR\) \(external\)](#)

## **AJAX Tutorials and Techniques**

- [Alternate Ajax Techniques](#) - Most articles on Ajax have focused on using XMLHttpRequest as the means to achieving such communication, but Ajax

techniques are not limited to just XMLHttpRequest. There are several other methods.

- [Ajax: A New Approach to Web Applications](#) - Jesse James Garrett, of [adaptive path](#), wrote this article in February 2005, introducing AJAX and its related concepts.
- [A Simpler Ajax Path](#) - "As it turns out, it's pretty easy to take advantage of the XMLHttpRequest object to make a web app act more like a desktop app while still using traditional tools like web forms for collecting user input."
- [Fixing the Back Button and Enabling Bookmarking for AJAX Apps](#) - Mike Stenhouse has penned this article, detailing some methods you can use to fix back button and bookmarking issues when developing AJAX applications.
- [Ajax Mistakes](#) - Alex Bosworth has written this article outlining some of the mistakes AJAX application developers can make.
- [AJAX Tutorial](#) with examples.
- [XMLHttpRequest specification](#) - W3C Working draft

### **More AJAX Articles and Tutorials:**

[Ajax IE caching issue](#)

[What is So Special About AJAX](#)

[Is Ajax development slowing down](#)

[Biggest AJAX problem](#)

[Surveying open-source AJAX toolkits](#)

[Live Filter - Reinvesting Search](#)

[Declarative AJAX Components and XML Namespaces`](#)

[Optimizing Page Load Time](#)

[Integrating Maps into Your Java Web Application with Google Maps and Ajax](#)

[Cybercrooks add Ajax coding Ajax File uploads to Amazon S3](#)

[How to create the Google Suggest feature with ASP.NET 2.0](#)

[Building a Pagination System with AJAX](#)

[Asynchronous file upload with AJAX progress bar in PHP](#)

[ajaxload - Ajax loading gif generator](#)

[AJAX Activity Indicators How to Create a Basic JavaScript Drag and Drop Functionality](#)

## **AJAX: Tools**

[AJAX Debugging Tool \(external\)](#)

[Firebug Firefox extension \(external\)](#)

[Flash / AJAX Integration Kit \(external\)](#)

[Flash / AJAX Integration Kit Example \(external\)](#)

## **XMLHttpRequest**

[XMLHttpRequest](#)

[Guide to Using XMLHttpRequest \(external\)](#)

[XMLHttpRequest at XULPlanet \(external\)](#)

[XMLHttpRequest changes for Gecko1.8](#)

[nsIJSXMLHttpRequest at XULPlanet \(external\)](#)

[nsIXMLHttpRequest at XULPlanet \(external\)](#)

[nsIXMLHttpRequest.idl \(LXR\) \(external\)](#)

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## **Enterprise Java Technologies Tech Tips**

Here are Sun Developer Network's [Enterprise Java Technologies Tech Tips](#).

These provide Java tips, techniques, and sample code on many technical Java topics targeted to developers using the Java Enterprise Edition (Java EE). If you'd like, you can download all of these Java tips and techniques in one [.zip file](#).

[Using Annotations in Web Applications](#)

[How to Get the Best Performance Out of a Java Persistence Implementation](#)

[Using Generics With Java Persistence](#)

[Tech Tips Quiz](#)

[Securing Web Services Using WSIT](#)

[Using Security Annotations in Enterprise Beans](#)

[EJB 3.0 Compatibility and Migration](#)

[Using an EJB Session Bean as a Model Facade](#)

[Customizing an ELResolver in JSP 2.1](#)

[Introduction to jMaki](#)

[Pitfalls in Constructing Java Persistence Query Language Queries](#)

[EJB 3.0 Interceptors -- Continued](#)

[Using Java Persistence With JavaServer Faces Technology,](#)

[Using a Model Facade](#)

[The Java Persistence Query Language](#)

[EJB 3.0 Interceptors](#)

[Configuring JAX-WS Handlers on the Client,](#)

[Tech Tips Quiz](#)

[Extending the Java EE Unified Expression Language with a Custom ELResolver,](#)

[Configuring, Packaging, and Deploying JAX-WS Handlers](#)

[Document Handling Using JAX-WS Dispatch and Provider APIs ,](#)

[Using Multiple Databases in a Java Persistence Application](#)

[Writing a Handler in JAX-WS,](#)

[Inheritance and the Java Persistence API](#)

[Using JAX-WS-Based Web Services with SSL,](#)

[Document Handling in Web Services Applications](#)

[Porting Java WSDP 2.0-Based Web Services to Java EE 5,](#)

[Call Flow Monitoring in GlassFish](#)

[Developing Web Services Using EJB 3.0,](#)

[Using Custom MBeans to Extend the GlassFish Administration System](#)

[Using AJAX With Non-HTML Markup in JSF,](#)

[Accessing a Secure Enterprise Bean From a Java Client or Through Java Web](#)

[Start Technology](#)

[What's New in JAXB 2.0,](#)

[Monitoring Web Services](#)

[Developing Web Services Using JAX-WS,](#)

[Charset Conversions from Browser to Database](#)

[Using AJAX with Java Technology,](#)

[Converting a POJO to a Persistent Entity](#)

[The Schema Validation Framework,](#)

[More About the Sun Java Streaming XML Parser](#)

[Accessing the Bean Environment in EJB 3.0 Session Beans,](#)

[Tech Tips Quiz](#)

[Enterprise Java Technologies Tech Tips Questionnaire](#)  
[Performing JAXR Registry Updates,](#)  
[The Java Application Verification Kit for the Enterprise, Part 2](#)  
[JAX-RPC Binding Styles and Use Attributes,](#)  
[The Java Application Verification Kit for the Enterprise](#)  
[Creating a Simple Web Service Using JAX-RPC,](#)  
[Using Relax NG With JAXB](#)  
[An Introduction to SAAJ,](#)  
[Improved Internationalization in the Java Servlet 2.4 API](#)  
[Using Message-Driven Beans with EJB 2.1,](#)  
[Java API for XML Registries \(JAXR\)](#)  
[Understanding JMX Technology,](#)  
[Introducing the Sun Java Streaming XML Parser](#)  
[Introduction to the Java Transaction API,](#)  
[Using the Java XML Digital Signature API](#)  
[Object Serialization with the JAXB Libraries,](#)  
[Revisiting Timers with Enterprise Beans](#)  
[J2EE Connector Architecture 1.5,](#)  
[Custom Components With JavaServer Faces Technology](#)  
[Value and Method Binding Expressions in JavaServer Faces Technology,](#)  
[Persisting Model Components With Java Data Objects](#)  
[Using JAX-RPC to Expose a Java Object as a Web Service,](#)  
[Component Systems and Class Loader Boundaries](#)  
[Using Existing Web Resources,](#)  
[Using TrAX for XPath](#)  
[Advanced HTML Email,](#)  
[Domain-neutral Messaging with JMS 1.1](#)  
[Converting Your Data Structures to XML,](#)  
[The Enterprise Bean Timer Interface](#)  
[Using the JavaMail API to Send HTML Email,](#)  
[Experimenting with JDBC](#)  
[Improving Designs with the MVC Design Pattern,](#)  
[Introducing JavaServer Faces Technology](#)  
[Custom Tag Files,](#)  
[Using Enterprise Beans with JSP Pages](#)  
[JSP 2.0 Expression Language](#)  
[Introducing the J2EE 1.4 Platform](#)  
[The JavaServer Pages Standard Tag Library \(JSTL\)](#)

[Customizing Deployment With Environment Entries](#)  
[Exploring Web-tier Attribute Scope](#)  
[Introduction to JNDI](#)  
[Writing an Entity Resolver](#)  
[Advanced EJB QL](#)  
[EJB QL Select Methods](#)  
[Application Initialization Using Listeners](#)  
[Finder Methods and EJB-QL](#)  
[Creating a Message-Driven Bean](#)  
[Iterating Nodes in DOM Trees](#)  
[Listing Web Archive Resources](#)  
[Servlet Life Cycle Listeners](#)  
[Java Logging with J2EE](#)  
[HTTP Request Forwarding, Redirecting, and Including](#)  
[Publish/Subscribe Messaging With JMS Topics](#)  
[Using the Document Object Model](#)  
[Changing the JAXP Parser Classes](#)  
[Using JMS Queues](#)  
[Creating Parsers with JAXP](#)  
[Referencing Enterprise Beans](#)  
[JavaServer Pages \(JSP\) Error Pages](#)  
[Preventing Repeated Operations](#)

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## [\*\*109 Linux Tutorials and Learning Articles\*\*](#)

Here are 109 Linux Tutorials and Learning Articles, mostly from [IBM's developerWorks](#). Included here are their most popular 10 Linux articles, Linux tutorials covering how to use the kernel to make system calls, use Linux's proc filesystem, make linkages between user-space and the Linux kernel, LPI Certification Exam preparation, learning PHP, Python, KParts, Rebol scripting, Ruby, JFS, and Linux networking.

[\*\*Top 10 Linux Articles and Tutorials from developerWorks\*\*](#)

Here are the current 10 most popular Linux tutorials and articles on IBM developerWorks:

1) [\*\*Discover the Linux Kernel Virtual Machine\*\*](#)

Linux and flexibility go hand in hand, and the options for virtualization are no different. But recently, a change in the Linux virtualization landscape has appeared with the introduction of the Kernel virtual Machine, or KVM. KVM is the first virtualization solution to be part of the mainline Linux kernel (V2.6.20). KVM supports the virtualization of Linux guest operating systems -- even Windows with hardware that is virtualization-aware. Learn about the architecture of the Linux KVM as well as why its tight integration with the kernel may change the way you use Linux.

2) [\*\*Parallelize applications for faster Linux booting\*\*](#)

One of the biggest complaints about Linux, particularly from developers, is the speed with which Linux boots. By default, Linux is a general-purpose operating system that can serve as a client desktop or server right out of the box. Because of this flexibility, Linux serves a wide base but is suboptimal for any particular configuration. This article shows you options to increase the speed with which Linux boots, including two options for parallelizing the initialization process. It also shows you how to visualize graphically the performance of the boot process.

3) [\*\*Windows-to-Linux roadmap: Overview\*\*](#)

IBM e-business architect Chris Walden is your guide through a nine-part developerWorks series on moving your operational skills from a Windows to a Linux environment. He covers everything from logging to networking, and from the command-line to help systems -- even compiling packages from available source code.

4) [\*\*Second Life client, Part 1: Hacking Second Life\*\*](#)

The open source release of the Second Life viewer program by developer Linden Lab offers a rare opportunity to peer into the comparative strengths of closed and open source development models. This article, the first in a series, gives an overview of some of the differences between these development styles, and talks about what's involved in setting up your own build environment.

5) **Bash by example**

- [\*\*Part 1: Fundamental programming in bash\*\*](#)

By learning how to program in the bash scripting language, your day-to-day interaction with Linux will become more fun and productive, and you'll be able to build upon those standard UNIX constructs (like pipelines and



redirection) that you already know and love.

- [Part 2: More bash programming fundamentals](#)

This second installmen

## 6) [Virtualization with coLinux](#)

Virtualization with VmWare, Xen, and Kernel-based Virtual Machine (KVM) are all the rage these days. But did you know that you can run Linux cooperatively with Windows? This article explores Cooperative Linux (coLinux), starting with a quick introduction to virtualization and then looking at the approach taken by coLinux. You'll also see how to get coLinux up and running on Windows.

## 7) [Boot Linux faster](#)

This article shows you how to improve the boot speed of your Linux system without compromising usability. Essentially, the technique involves understanding system services and their dependencies, and having them start up in parallel, rather than sequentially, when possible.

## 6) [Visualize your data with gnuplot](#)

Turn your data and functions into professional-looking graphs with Gnuplot 4.0, a freely distributed plotting tool. In this article, get a hands-on guide to gnuplot that emphasizes the idioms you'll need to use this tool effectively.

## 9) [Reduce your Linux memory footprint](#)

A lack of physical memory can severely hamper Linux performance. In this article, learn how to accurately measure the amount of memory your Linux system uses. You also get practical advice on reducing your memory requirements using an Ubuntu system as an example.

## 10) [Sugar, the XO laptop, and One Laptop per Child](#)

One Laptop per Child (OLPC) is an organization whose mission is to develop a low-cost laptop (USD100) with accompanying software to spread computer literacy to children around the world. Because the device targets children, it must provide a novel user interface and applications that allow children to experiment with tools for expression and learning. The operating system for the OLPC is a port of the Linux kernel but with a unique interface called Sugar. In this article, learn about the Sugar human interface, see how to virtualize an OLPC laptop on a standard PC using QEMU, and take a tour of Sugar and the OLPC capabilities.

**Here are some other good Linux Tutorials and How Tos from developerWorks and elsewhere...**

[Kernel command using Linux system calls](#)

Learn how a Linux system call is performed from user-space to the kernel. Explore the Linux system call interface (SCI), find out how to add new system calls (and alternatives for doing so), and discover utilities related to the SCI.

### [Access the Linux Kernel using the /proc filesystem](#)

Learn how to develop kernel code that uses the /proc file system for user-space/kernel communication.

### [Anatomy of the Linux kernel](#)

The Linux kernel consists of a sensible set of subsystems and layers. Learn the architecture to better understand and navigate the Linux source.

### [Sysenter Based System Call Mechanism in Linux 2.6](#)

Get a detailed look at the system call gate between the user-space application and the kernel. This paper focuses on the transition mechanisms provided in the 2.6 kernel.

### [Assembly Language Linkages](#)

Details the assembly language linkages between the user-space and the Linux kernel.

### [Linux Syscalls man page](#)

This gives a complete list of system calls available in Linux.

### [Systems Calls article at Wikipedia](#)

This article offers an interesting perspective on system calls, including history and typical implementations.

### [Kernel application program interface \(API\)](#)

Documents many of the kernel functions available for general (in-kernel) use, including user-space memory-management functions as well as many others.

### [Turbocharge Ruby on Rails with ActiveScaffold](#)

Learn how to use the ActiveScaffold, which is a plugin that provides dynamic model-based view generation, making data-entry UI development in Rails easy.

### [Tuning LAMP systems, Part 3: Tuning your MySQL server](#)

Learn how to fine tune mysqld.

### [Webcast: Integrating Open Source into your Business](#)

IBM advises not to build a separate Open Source strategy, but rather consider effective alternatives to integrate Open Source into your existing strategy, your IT infrastructure, and your business. This webcast reviews IBM's combination of open source and commercial software offerings and their experiences with Linux,

Apache, Eclipse and many other open source projects.

### **Here are 88 Linux Tutorials at IBM developerWorks:**

- [Industrial-strength Linux lockdown, Part 1: Removing the shell](#)
- [Deploy Red Hat across multiple computers using Tivoli Provisioning Manager for OS Deployment](#)
- [UNIX tips and tricks for a new user, Part 4: Some nifty shell tricks](#)
- [LPI exam 102 prep, Topic 109: Shells, scripting, programming, and compiling](#)
- [UNIX tips and tricks for a new user, Part 3: Introducing filters and regular expressions](#)
- [vi intro -- the cheat sheet method](#)
- [LPI exam 102 prep, Topic 108: Linux documentation](#)
- [LPI exam 102 prep, Topic 107: Printing](#)
- [Using open source software to design, develop, and deploy a collaborative Web site, Part 4: Building your development environment in Linux](#)
- [Porting to the Linux Standard Base](#)
- [LPI exam 202 prep, Topic 214: Network troubleshooting](#)
- [LPI exam 202 prep, Topic 212: System security](#)
- [LPI exam 202 prep, Topic 210: Network client management](#)
- [LPI exam 202 prep, Topic 208: Web services](#)
- [LPI exam 102 prep, Topic 106: Boot, initialization, shutdown, and runlevels](#)
- [LPI exam 102 prep, Topic 105: Kernel](#)
- [LPI exam 101 prep, Topic 110: The X Window System](#)
- [LPI exam 101 prep, Topic 104: Devices, Linux filesystems, and the Filesystem Hierarchy Standard](#)
- [LPI exam 202 prep, Topic 207: Domain Name System \(DNS\)](#)
- [LPI exam 202 prep, Topic 206: Mail and news](#)
- [LPI exam 101 prep, Topic 103: GNU and UNIX commands](#)
- [LPI exam 202 prep, Topic 205: Networking configuration](#)
- [LPI exam 101 prep, Topic 102: Linux installation and package management](#)
- [LPI exam 201 prep, Topic 211: System maintenance](#)
- [LPI exam 201 prep, Topic 213: System customization and automation](#)
- [LPI exam 201 prep, Topic 214: Troubleshooting](#)
- [LPI exam 201 prep, Topic 209: File and service sharing](#)
- [LPI exam 201 prep, Topic 204: Hardware](#)
- [LPI exam 201 prep, Topic 203: Filesystem](#)
- [LPI exam 201 prep, Topic 202: System startup](#)

- [LPI exam 201 prep, Topic 201: Linux kernel](#)
- [LPI exam 101 prep, Topic 101: Hardware and architecture](#)
- [Sockets programming in Ruby](#)
- [Sockets programming in Python](#)
- [Hacking the Linux 2.6 kernel, Part 2: Making your first hack](#)
- [Hacking the Linux 2.6 kernel, Part 1: Getting ready](#)
- [Learning PHP, Part 3: Authentication, objects, exceptions, and streaming](#)
- [Linux virtualization on POWER5: A hands-on setup guide](#)
- [Manage C data using the GLib collections](#)
- [Learning PHP, Part 2: Upload files and use XML to store and display file information](#)
- [Learning PHP, Part 1: Register for an account, upload files for approval, and view and download approved files](#)
- [Test-first Ruby programming](#)
- [Embed Python scripting in C applications](#)
- [Build a GCC-based cross compiler for Linux](#)
- [Embed Perl scripting in C applications](#)
- [Linux-powered networking, Part 3: Integrate Linux and Windows with Samba](#)
- [Linux-powered networking, Part 2: Set up a DHCP server to manage IP addresses](#)
- [Linux-powered networking, Part 1: Build a DNS server with ISC BIND](#)
- [Network packet capturing for Linux](#)
- [Using the GNU text utilities](#)
- [Programming Linux sockets, Part 2](#)
- [Build a grid app with Python, Part 5: Tracking and management](#)
- [Build a grid app with Python, Part 4: Metadata](#)
- [Build a grid app with Python, Part 3: Security](#)
- [Build a grid app with Python, Part 2: Communication](#)
- [Build a grid app with Python, Part 1: Introduction](#)
- [Programming Linux sockets, Part 1](#)
- [Build grid applications with the Python Extensions for the Grid \(PEG\)](#)
- [Build Python grid applications with the Globus Toolkit](#)
- [Installing Tivoli Access Manager on Linux](#)
- [Making of MetroSphere, Part 16: Secure version management with CVS](#)
- [Build a Linux test network](#)
- [Introduction to User-Mode Linux](#)
- [Build an LDAP-based address book](#)
- [Linux links wirelessly](#)

- [Tuning Red Hat for maximum performance](#)
- [Living in Emacs](#)
- [Creating KParts components, Part 2](#)
- [Creating KParts components, Part 1](#)
- [Linux clustering with MOSIX](#)
- [Introduction to XFree86 4.x](#)
- [Configuring TCP/IP under Linux](#)
- [Tcl/TK quick start](#)
- [Beginning Haskell](#)
- [Backing up your Linux machines](#)
- [Fast Web browsing with a caching proxy](#)
- [Installing FreeBSD](#)
- [Creating dynamic Web sites with PHP and MySQL](#)
- [Bridging XPCOM/Bonobo: Techniques](#)
- [Building KDE themes for Linux](#)
- [Inside the Apache directory structure](#)
- [CVS for the developer or amateur](#)
- [Using Perl to access DB2 for Linux](#)
- [Getting to know GRUB](#)
- [JFS fundamentals](#)
- [Rebol scripting basics](#)
- [Using regular expressions](#)
- [Compiling and installing software from sources](#)

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## **[Top 10 Programming Diggs for the past 30 days](#)**

It's time again for my picks for the best [Programming Diggs](#). Here is my list of what I consider the Top 10 Programming Diggs for the past 30 days. These will help you learn and understand current development technologies, such as Python, Linux, Google Gears, Firefox Extensions, Web applications, AJAX, Ruby On Rails, CSS, and programming techniques.

## **[Master Python in 10 Minutes](#)**

So, you want to learn the Python programming language but can't find a concise and yet full-featured tutorial. This tutorial will attempt to teach you Python in 10 minutes. [More...](#)

### [Want to be a good Computer Scientist? Forget Math](#)

ITwire from Australia is running an interesting story about a new book seeks to demolish the concept that computer science is rooted in mathematics and, in particular that the notion of the algorithm is fundamental to computer science. [More...](#)

### [/dev/hello\\_world: A Simple Introduction to Device Drivers under Linux](#)

Since the misty days of yore, the first step in learning a new programming language has been writing a program that prints "Hello, world!" (See the Hello World Collection for a list of more than 300 "Hello, world!" examples.) In this article, we will use the same approach to learn how to write simple Linux kernel modules and device drivers. [More...](#)

### [The Power of Google Gears \(Part 1\)](#)

Web application development is the perfect 95 percent solution. It's very easy to develop a simple HTML frontend to something like PHP or Rails, to deliver data to and from a MySQL database. You can even give it a more desktop feel by using Ajax tools. But that last five percent, the ability for desktop applications to work offline, was missing [More...](#)

### [Make Your Own Firefox Extensions](#)

Most Firefox users have clicked through Tools | Add-ons | Get Extensions (or visited addons.mozilla.org) to download some from the main repository. But why not make your own? Fortunately, it's not hard. [More...](#)

### [A Web App Autopsy](#)

Particle tree looks under the hood of the popular web apps Wufoo, Blinksale, FeedBurner and RegOnline. What programming languages did they use? How long did it take them to launch? How many lines of code do they have? What were their conversions like? A must read for anyone looking at creating a start up. [More...](#)

### [80+ AJAX Solutions For Professional Coding](#)

Long list of Ajax techniques & tutorials: Auto-completion, instant field editing, menus, calendars, interactive elements, visual effects, animation, basic javascripts, as well as an extensive developer's suite should give you a useful and powerful toolbox you can use every day, without a need to go through hundreds of AJAX-related bookmarks. [More...](#)

## **[Starting Ruby on Rails: What I Wish I Knew](#)**

Ruby on Rails is an elegant, compact and fun way to build web applications. Unfortunately, many gotchas await the new programmer. Now that I have a few rails projects under my belt, here 's my shot at sparing you the suffering I experienced when first getting started. [More...](#)

## **[Ten CSS tricks you may not know](#)**

Cascading Style Sheets are the foundation on which many of the best websites are built. Using CSS allows developers to describe the common style for the website, in terms of colours, fonts and layouts. In this tutorial, Trenton Moss of Webcredible shares some of his top tips to help you get the most from your CSS. [More...](#)

## **[Introduction to Object-Oriented Programming](#)**

Object-oriented programming is a set of practices for encouraging code reuse and making sure programmers are producing code that can be used in production for a long time. object: utterly hopeless, miserable, humiliating, or wretched: object poverty. [More...](#)

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## **[6 Free Web Design Guides](#)**

Sessions School of Design offers six well written Website Design Guides in their [POP! Library of Visual Design Guides](#). By using these web design guides you will obtain real world training on improving your design skills in these areas: Web Site Design, Layouts, Digital Photography, Branding, and Animation. These downloadable full-color training documents were written by 15 professional designers. Free registration is required.

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## **[Bulletproof HTML - 37 Steps to Perfect Markup](#)**

This tutorial article from Sitepoint highlights and answers some of the most frequently asked questions about HTML.

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## **[Brad's Unix and Linux Publications](#)**

Brad is a Unix and Linux systems administrator, and he also know a bit about Windows. He has written articles for SAGE-AU's newsletter, Sage Advice, and he maintains some packages for Debian. The following are , which are his articles and tutorials showing you how to do many system admin and networking tasks that will help you in your work.[Brad's Publications](#)

- [Linux](#)
  - [Apache](#)
  - [Squid](#)
  - [SSH](#)
  - [Perl](#)
  - [LDAP](#)
  - [Internet](#)
  - [Firewall](#)
  - [XFree86](#)
  - [Various](#)
  - [Notes](#)
  - [Scripts](#)
- 
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### 3) New Free Computer IT Books, Publications & Book Sites:

Some of these web resources will be added to our Free IT Books page at [Intelligentedu.com/free\\_computer\\_books.html](http://Intelligentedu.com/free_computer_books.html) and some will be added to our [members site](#).

#### [100 Java Programming and Web Development Ebooks](#)

Here is a web repository of over 100 [Java Programming and Web Development Ebooks](#). These programming ebooks cover many Java technologies, along with AJAX, JavaScript, CSS, DHTML, HTML, and MySQL. These are in pdf and chm formats.

#### eBook Topics:

- Oracle Application Server 10G Web Development
- Core JavaServer Faces
- Struts Reference eBook
- JavaServer Pages (JSP 2.0)
- AJAX In Action
- Eclipse Distilled
- Java Programming Language Guide
- Java Traps, Pitfalls, and Corner Cases
- Java Programming Language Guide
- Eclipse eBook
- The Java Programming Language
- Agile Java Development with Spring, Hibernate, and Eclipse
- AJAX Patterns and Best Practices
- Beginning JavaScript with DOM Scripting and AJAX - From Novice to Expert Spring Mvc And Web Flow
- Apache Ant
- Jakarta Tomcat 5
- Spring
- Jakarta Struts
- Foundations of AJAX eBook
- Pro JSF and AJAX Building Rich Internet Components

- Struts Applications Building Web Sites with Struts
- SCJP
- Web Frameworks: Struts, Spring MVC, WebWork, Tapestry and JSF
- DHTML and Web Design Using JavaScript and DOM
- Design Patterns - Elements of Reusable Object-Oriented Software
- Design Patterns Elements of Reusable Object Oriented Software
- DHTML Utopia
- MySQL eBook
- CSS Mastery Advanced Web Standards Solutions
- HTML Utopia - Designing Without Tables Using CSS
- JSP - Struts eBook - Building Web Applications with the Leading Java Framework
- JFC Swing Tutorial A Guide to Constructing GUIs
- Guide to web application development with Tapestry
- JavaServer Faces JSF eBook
- Java 2
- JSTL eBook
- Java Web Development - Struts, Tapestry, Commons, Velocity, Junit, Axis, Cocoon, Internetbeans, Webwork
- IntelliJ IDEA eBook
- AJAX eBook
- Accessibility - Making Your Web Site More Usable for Everyone
- Ant Guide
- Eclipse IDE eBook
- High Performance MySQL
- Java Swing
- JavaServer Pages
- Javascript And DHTML eBook
- Regular Expressions
- Programming Jakarta Struts
- UNIX Power Tools
- Cascading Style Sheets The Definitive Guide
- JavaServer Faces
- GNU Emacs
- Tomcat Guide
- Sed & Awk
- FreeBSD and OpenBSD Security
- Unix Backup and Recovery
- AJAX Design Patterns
- Eclipse IDE eBook
- Essential SNMP
- Jakarta Commons eBook
- Java 1.5 Tiger A Developers Notebook

- Learning Java
- Swing Hacks
- AJAX Hacks Tips And Tools For Creating Responsive Web Sites
- Rt Essentials Ebook
- Java Examples eBook
- Java eBook
- RADIUS iNT eBook
- Core JSTL - the JSP Standard Tag Library
- Core Servlets and JavaServer Pages, Core Technologies
- More Servlets and JavaServer Pages
- Agile Java - Coding with Test Driven Development
- Core Java 2 Volume I
- Core Java 2 Volume II
- Jakarta Velocity
- Exam Cram 2 Sun SCJD (Exam CX-310-252A and CX-310-027)
- Java 2 Developer Exam Cram 2 Exam CX-310-252A And CX-310-027 eBook
- Regular Expression eBook Reference
- SCJP Exam - 310-055 Exam Q and A
- SCJP Sun Certified Programmer for Java 5 Study Guide (Exam 310-055)
- The CSS Anthology 101 Essential Tips Tricks and Hacks
- Struts Recipes - Hibernate
- Style with CSS - A Designer's Guide
- Core JSTL Mastering the JSP Standard Tag Library
- Sun Java Certification - Kathy Sierra, SCJP1 5, SCJP 310-055
- Nessus Snort and Ethereal Power Tools Customizing Open Source Security Applications
- Writing Security Tools and Exploits
- The Javascript Anthology 101 Essential Tips, Tricks & Hacks-Sample
- WebWork In Action
- Java Open Source Programming With Xdoclet, Junit, Webwork, Hibernate
- Java Development with the Spring Framework
- Ibm Websphere 5.0 Application Server
- Javascript For Web Developers
- Apache Tomcat 5
- Jakarta Struts
- AJAX
- Latex Companion
- Tapestry In Action
- Jakarta Struts eBook
- Core Web Programming
- Java Swing
- Java Servlet and JSP eBook

- [Java Manual](#)
  - [Programmers AJAX](#)
- 

## [Ebooks for Open Source Technologies](#)

[OpenSourceProject.org.cn](http://OpenSourceProject.org.cn) hosts ebooks in the categories linked below. These cover many open source technologies, including Linux, Databases, Email, Interfaces, Multimedia, Security, Application Development and Programming, Web Development, and Web Authoring.

### Ebook Subjects:

- [Database](#) - MySQL (34)
  - [Email](#) (12)
  - [Embedded Linux](#) (13)
  - [Enterprise/Business](#) (5)
  - [Games](#) (3)
  - [Interface](#) (5)
  - [Kernel](#) (4)
  - [Linux distribution](#) (18)
  - [Multimedia](#) (9)
  - [Office/Text Editors](#) (7)
  - [Open Source Sponsor](#) (3)
  - [Science](#) (1)
  - [Security](#) (13)
  - [Software Development](#) (74)
  - [SystemAdministration](#) (23)
  - [Web Authoring](#) (4)
-

## [Free eBook Source](#)

This site, [Free eBook Source](#), provides download links to freely available Programming and Computer eBooks covering many areas and topics. Most of these are in pdf ebook format.

- [.Net Framework](#)
- [Algorithms](#)
- [Artificial Intelligence](#)
- [ASP.Net](#)
- [Assembly - BIOS](#)
- [Accounts-Finance-Economics](#)
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- [Compilers](#)
- [Cookery](#)
- [Database + PHP + Web](#)
- [Director](#)
- [Dreamweaver](#)
- [Engineering](#)
- [Encryption-Cryptography](#)
- [Flash](#)
- [IELTS, SAT, TOEFL, GRE, GMAT](#)
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- [Hacking](#)
- [Java](#)
- [Love and Romance](#)
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- [Travel Guide eBooks](#)
- [Networking](#)
- [Magazines](#)
- [Mathematics](#)
- [Medicine Biology Chemistry](#)
- [MS Office Suit](#)
- [Oracle](#)
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- [SEO](#)
- [SQL](#)
- [Windows Programming](#)
- [Software Engineering-UML](#)
- [Web](#)
- [XML](#)

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## [67 Freely Available eBooks](#)

Here are 67 freely available ebooks, mostly in pdf format, available from [salaam.cs.buap.mx/EBOOKS](http://salaam.cs.buap.mx/EBOOKS). These cover Linux, Flash, Data Mining, Gaming, Machine Learning, Lisp, Security, and Computer Vision.

### [Linux](#)

Linux Unix System Administration Handbook (ebook)

An Introduction to Linux Systems Administration

Linux RedHat Cluster Manager Installation Administration Guide

Unix System Administration - A Beginner's Guide (Hp Ux, Solaris, Linux)

Microsoft Windows Small Business Server 2003 Installation, Administration, Configuration and Troubleshooting, Delivery Guide

Red Hat Linux System Administration Primer

Red Hat Linux Networking And System Administration

SUSE Linux Administration Guide

SUSE Linux IMAP Server Installation, Configuration and Administration

### [Flash](#)

Macromedia Flash MX Techniques

Flash 4 Manual

Flash MX 2004 ActionScript eBook

Flash MX Actionscript eBook

Flash MX Tutorials

How to Make Flash & PHP Talk

Learning Flash

Macromedia Flash Making movies

Macromedia Flash MX Building a 100% Flash Site

Macromedia Flash MX Actionscript eBook

Macromedia Flash MX eBook

Macromedia Flash MX Tutorials

Macromedia Flash MX Manual

Play Piano In A Flash

Using Flash

Learning Flash MX 2004

Flash MX Level 1

## [Data Mining](#)

Data Mining Bioinformatic eBook

Principles of Data Mining - Adaptive Computation and Machine Learning

Learning with Kernels: Support Vector Machines, Regularization, Optimization, and Beyond

Data Mining Concepts, Models, Methods, and Algorithms

Media Photo Retouching with Photoshop: A Designer's Notebook

Data mining in medical databases

Developing Bioinformatics Computer Skills

Principles of Data Mining

Machine Learning

DataMining Concepts and Techniques

Data Mining Practical Machine Learning Tools And Techniques

Information Visualization Perception

Data Mining Methods and Models

## [Games](#)

Direct3D

General3D

## [Machine Learning](#)

Artificial Intelligence and Machine Learning, Neural and Statistical Classification

Artificial Intelligence and Machine Learning

Machine learning in Computer chess the next generation

Machine Learning

Introduction to Machine Learning

Noisy Time Series Prediction Using a Recurrent Neural Network and Grammatical Inference

## [Lisp](#)

Common Lisp, The Language

Practical Common Lisp

Common Lisp A Gentle Introduction

## Good Lisp Programming Style

### [Prolog](#)

An Introduction to Support Vector Machines and Other Kernel Based Learning Methods

### [Security](#)

70-310 MCSD MCAD - Developing XML Web Services and Server Components with Microsoft Visual Basic .NET

Advanced Networking (ppt)

IPsec How To Configure w2K Xp - Client To Connect To Standards Based Ipsec Vpn Servers

Guidelines for the Security of Information Systems and Networks

TCP Internetworking (ppt)

Developing XML Web Services and Server Components with MS VB.NET

Firewalls DMZ

### [Computer Vision](#)

Computer Vision eBook - 1

Computer Vision eBook - 2

Computer Vision eBook - 3

Geometric Algebra & Computer Vision

Handbook of Computer Vision Algorithms in Image Algebra

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## [11 Programming Ebooks](#)

Here are [11 Programming Ebooks](#) covering C#, ASP.NET, XML, Java, HTML, XHTML, JavaScript, Struts, and XSLT. These application development ebooks are in pdf and chm formats.

### [EBook Topics:](#)

C# and ASP.NET 2.0 Advanced Application Design

Beginning ASP.NET 2.0 with C#

C# ASP.NET 2.0

ASP.NET 2.0 XML

Java 2 Reference



HTML and XHTML Reference eBook  
JavaScript Reference eBook  
Struts Reference  
XSLT eBook  
XSLT - Learning XML Transformations  
XSL Transformations (XSLT) Reference

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### **[SQL Server 2005 Books Search](#)**

Here are two online searches for SQL Server 2005 books and related topics, and more free online books to go along with the [free SQL Server 2005 books](#) I wrote about and linked to in an earlier blog post.

### **[SQL Server 2005 Books Online Scoped Search](#)**

Search for SQL Server 2005 topics, features, and concepts using this search that returns free chapters and tutorials from SQL Server 2005 online books and guides.

### **[SQL Server 2005 Books Online](#)**

This is a Live Search macro to targeting searches to Books Online for SQL Server 2005.

### **[SQL Server 2005 Books Online](#)**

This is the original set of books providing documentation to help you understand SQL Server 2005, and how to implement data management and business intelligence projects. SQL Server 2005 includes several data management and analysis technologies.

#### **[Database Engine](#)**

The Database Engine is the core service for storing, processing and securing data. The Database Engine provides controlled access and rapid transaction processing to meet the requirements of the most demanding data consuming applications within your enterprise. The Database Engine also provides rich support for sustaining high availability.

### [Analysis Services](#)

Analysis Services delivers online analytical processing (OLAP) and data mining functionality for business intelligence applications. Analysis Services supports OLAP by allowing you to design, create, and manage multidimensional structures that contain data aggregated from other data sources, such as relational databases.

### [Integration Services](#)

Integration Services is a platform for building high performance data integration solutions, including packages that provide extract, transform, and load (ETL) processing for data warehousing.

### [Replication](#)

Replication is a set of technologies for copying and distributing data and database objects from one database to another, and then synchronizing between databases to maintain consistency.

### [Reporting Services](#)

Reporting Services delivers enterprise, Web-enabled reporting functionality so you can create reports that draw content from a variety of data sources, publish reports in various formats, and centrally manage security and subscriptions.

### [Notification Services](#)

Notification Services is an environment for developing and deploying applications that generate and send notifications. You can use Notification Services to generate and send timely, personalized messages to thousands or millions of subscribers, and can deliver the messages to a variety of devices.

### [Service Broker](#)

Service Broker helps developers build scalable, secure database applications. Service Broker includes infrastructure for asynchronous programming that can be used for applications within a single database or a single instance, and also for distributed applications.

### [Full-Text Search](#)

Full-Text Search contains the functionality you can use to issue full-text queries against plain character-based data in SQL Server tables. Full-text queries can include words and phrases, or multiple forms of a word or phrase.

## [SQL Server 2005 Express Edition Books Online](#)

- [Overview of SQL Server Express](#)
- [Distributing SQL Server Express](#)
- [Replication in SQL Server Express](#)

## [SQL Server 2005 Compact Edition Books Online](#)

- [SQL Server Compact Edition Concepts](#)
  - [SQL Server Compact Edition Programming](#)
- 

## [Free Book on Python Programming and Natural Language](#)

[NLTK, the Natural Language Toolkit](#), is a suite of open source Python modules, data sets and tutorials supporting research and development in natural language processing. [Natural language processing](#) systems convert information from computer databases into normal-sounding human language, and natural language understanding systems convert samples of human language into more formal representations that are easier for computer programs to manipulate. In theory natural language processing is a very attractive method of [human-computer interaction](#).

[NLTK](#) currently contains 50,000 lines of code, 300Mb of datasets, and a free [360 page book](#) that teaches both Python and Natural Language Processing (written by Steven Bird, Ewan Klein, and Edward Loper). Presentation [slides](#) are also available for some of the book chapters. NLTK has been adopted in at least 40 [University Courses](#). It is hosted on sourceforge, and is ranked among the top 200 projects. The fact that Python lets them do this is a testament to its usefulness. The [NLTK Python book](#) has been revised in Part I (tokenization, tagging, chunking) and Part II (grammars and parsing).

### [Python Book Table of Contents:](#)

Frontmatter  
[HTML PDF](#) Preface

[HTML](#) [PDF](#) 1. Introduction

Part I — Basics

[HTML](#) [PDF](#) 2. Programming

[HTML](#) [PDF](#) 3. Words

[HTML](#) [PDF](#) 4. Tagging

[HTML](#) [PDF](#) 5. Chunking

Part II — Parsing

[HTML](#) [PDF](#) 6. Structured Programming

[HTML](#) [PDF](#) 7. Grammars and Parsing

[HTML](#) [PDF](#) 8. Advanced Parsing

[HTML](#) [PDF](#) 9. Feature Based Grammar

Part III — Advanced Topics (Draft only, 50% complete)

[HTML](#) [PDF](#) 10. Advanced Programming (25% complete)

[HTML](#) [PDF](#) 11. Semantic Interpretation (90% complete)

[HTML](#) [PDF](#) 12. Language Engineering (25% complete)

[HTML](#) [PDF](#) 13. Managing Linguistic Data (50% complete)

Appendixes

[HTML](#) [PDF](#) 14. Regular Expressions

[HTML](#) [PDF](#) 15. NLP using Python vs Other Languages

[HTML](#) [PDF](#) 16. NLTK Modules and Corpora

[HTML](#) [PDF](#) 17. Cheat Sheet

[HTML](#) [PDF](#) Term Index

[HTML](#) [PDF](#) Download entire book

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## 4) University Computer Science Course Sites Free to Browse and Study:

These web sites will be added to our Free University IT Course Webs page at [intelligentedu.com/cat3.html](http://intelligentedu.com/cat3.html)

### 24 University Computer Science Courses

Here are the links to 24 University Computer Science Courses in the Department of Computer Science and Information Systems at the University of Limerick. These provide detailed course lecture notes, slides, and other educational content in many software development and I.T. areas. The materials in these course modules can help you learn and improve you skills in software development methodologies, systems analysis, software architecture, computer graphics, programming, operating systems, and many more technical topics. Click on the 'Lecture' links to access the main content.

#### Computer Science Course Modules:

- [CS4112 - Computer Science 2](#)
- [CS4121 - Information Systems & Modelling](#)
- [CS4125 - Systems Analysis](#)
- [CS4135 - Software Architecture](#)
- [CS4211 - Computer Organisation 1](#)
- [CS4157 - Software Quality](#)
- [CS4411 - Imperative Programming 1](#)
- [CS4513 - Introduction to Systems Analysis](#)
- [CS4568 - Advanced Software Quality](#)
- [CS4815 - Computer Graphics](#)
- [CS4816 - Artificial Intelligence](#)
- [CS4828 - Computer Integrated Manufacturing](#)
- [CS4838 - Advanced Topics in Computer Architecture](#)
- [CS4878 - Applications of Machine Learning](#)
- [CS4911 - Introduction to Information Technology](#)
- [CS4925 - Business Information Technology 1](#)
- [CS5111 - Programming Language 1](#)

- [CS5121 - CS5411: Introduction to Development of Info. Sys](#)
  - [CS5122 - Development of Information Systems II](#)
  - [CS5211 - Computer Organization](#)
  - [CS5212 - Operating Systems](#)
  - [CS5702 - Software Engineering Requirements](#)
  - [CS5703 - Software Engineering Quality](#)
  - [CS5706 - Software Design](#)
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**5) The Best Suggested Sites from our Website Users** - Every month we feature the best suggested IT training and tutorial sites from our website visitors. Here are this month's sites:

### **[Free Sun Solaris 10 Training and Tutorials](#)**

Here is [Sun Solaris 10 Training and Tutorials](#), which is a great free Solaris training and learning resource site. The Solaris 10 tutorials hosted by this site cover and teach many Solaris topics, which are linked below.

- [Access Control and System Messaging Configuration](#) (8)
- [Apache-MySQL-PHP-SSL](#) (4)
- [Archiving and Restoring the System](#) (5)
- [Archiving Files and Remote Transfer](#) (11)
- [Configuring and Managing Network Applications](#) (15)
- [Configuring the Network](#) (22)
- [Configuring the Network Interface Layer](#) (3)
- [Managing File Systems](#) (23)

- [Managing Network Printers and System Processes](#) (11)
  - [Manipulating and Managing Files and Directories](#) (20)
  - [Naming Services Setup](#) (12)
  - [Network Basics](#) (5)
  - [Performing User and Security Administration](#) (7)
  - [Searching and Process Manipulation](#) (6)
  - [Solaris 10 installation](#) (2)
  - [Solaris 10 OS x64/x86-Based Systems Differences](#) (81)
  - [Storage Volume Management](#) (12)
  - [System Boot Procedures](#) (9)
  - [Using Components of the Desktop System](#) (12)
  - [Virtual File Systems and Core Dump Management](#) (15)
  - [Working With the Shell](#) (10)
- 

## **[Free AutoCAD Online Course](#)**

Here is a free AutoCAD course, offered by Netlearn.com.au: [Introduction to AutoCAD - Free Online Basic Course](#). It provides you with an introduction to AutoCAD covering the AutoCAD topics listed below. This course covers offers over 100 essential AutoCAD lessons. Free registration is required.

AutoCAD Topics taught in this free course:

- An overview of the netLearn course
- Operating the netLearn course
- An overview of the AutoCAD interface
- AutoCAD menus, buttons and palettes
- Entering commands into AutoCAD
- Saving Files
- Command types and subcommands
- Basic Drawing Commands
- Basic Editing Commands
- Basic techniques in drawing accurately
- Entering distances
- Setting up for printing

- Printing your drawing

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## **[39 Univeristy Programming and IT Courses](#)**

Here are the course content and materials for [39 Univeristy Computer Engineering Courses](#), from the Dept. of Computer Engineering at Eastern Mediterranean University. To access the lecture notes, slides, tests and solutions, for most of these programming and I.T. courses, just click on the 'Lecture Notes' link. By reading and reviewing the course notes and slides of these university courses, you can improve your knowledge and understanding of these computer technologies.

### **Spring Semester 2006-2007 Undergraduate Courses:**

[CMPE 101 Foundations of Computer Engineering](#)

[CMPE 112 Programming Fundamentals](#)

[CMPE 205 Introduction to Computing](#)

[CMPE 212 Programming Languages and Object Oriented Methods](#)

[CMPE 218 Principles of Programming Languages](#)

[CMPE 231 Data Structures](#)

[CMPE 242 Operating Systems](#)

[CMPE 326 Microprocessors](#)

[CMPE 344 Computer Networks](#)

[CMPE 352 Database Management Systems II](#)

[CMPE 414 Advanced Programming platform](#)

[CMPE 416 Object Oriented Programming and Graphical User Interfaces](#)

[CMPE 418 Internet Programming](#)

[CMPE 444 Data Communications](#)

[CMPE 445 Internet Architecture and Protocols](#)

[CMPE 472 Automata Theory](#)

### **Spring Semester 2006-2007 Graduate Courses:**

[CMPE 535 Knowledge Engineering](#)

[CMPE 542 Advance Networking](#)

[CMPE 553 Cryptography and Network Security](#)

[CMPE 581 Modeling Multimedia Systems](#)

[CMPE 598 Graduate Seminar](#)



**Fall Semester 2006-2007 Undergraduate Courses:**

[CMPE 241 Operating Systems](#)

[CMPE 325 Computer Architecture II](#)

[CMPE 343 System Programming](#)

[CMPE 351 Database Management Systems I](#)

[CMPE 415 Visual Programming](#)

[CMPE 423 Embedded System Design](#)

[CMPE 427 Hardware Realization of Algorithms](#)

[CMPE 461 Artificial Intelligence](#)

[CMPE 466 Computer Graphics](#)

[CMPE 474 Performance Analysis of Computer Systems](#)

**Fall Semester 2006-2007 Graduate Courses:**

[CMPE 549 Wireless Personal Communications](#)

[CMPE 552 Database and File Security](#)

[CMPE 583 Web Semantics](#)

**Undergraduate Courses Offered in Spring 2005-2006:**

[EE 220 Electric Circuits](#)

[EE 240 Electronics](#)

[CMPE 318 Programming Language Design](#)

[CMPE 443 Real Time System Design](#)

[CMPE 476 System Simulation](#)

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**6) New Computer & IT Training & Tutorial Link & Resource Sites:**

These web sites will be added to our IT Links and Resources page at

[Intelligentedu.com/cat6.html](http://Intelligentedu.com/cat6.html)

[iTutor.info](http://iTutor.info) provides over 1,500 tutorial web resources to several important development and I.T. areas.

[iTutor.info Tutorial Categories:](#)

- [Access](#)
- [AJAX](#)
- [ASP/ASP.NET](#)
- [C/C++/C#](#)
- [CSS](#)
- [HTML](#)
- [Java](#)
- [Javascript](#)
- [MsSQL \(2\)](#)
- [Perl/CGI](#)
- [PHP](#)
- [Visual Basic](#)
- [XML](#)

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## 7) I.T. Sites and Free Downloads Worth Mentioning:

*The following programs are totally Free, no popups, no adware, no spyware, and no shareware.*

RegCompact.NET 2.0

RegCompact.NET 2.0 will enhance your system's performance by optimizing the arrangement of data stored in your system's registry hives. During the normal operation of a Windows system, registry data is constantly being written to and removed from the registry. This tool solves the problem of registry fragmentation and large size by rewriting the registry hives into new files which are completely optimised and often much smaller. Your computer is restarted after the registry hives are compacted and during system startup the old, fragmented files are replaced with the newly generated and optimized ones. Requires Microsoft .NET Framework.

[Download](#) (99 kB)

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### **Sygate Personal Firewall 5.6**

Sygate Personal Firewall provides network and internet security in a user friendly interface, protecting your PC from hackers, trojans and DoS attacks. New features include full-ICS support, protocol driver level protection, enhanced logging, and more. This free personal firewall provides you protection from malicious code intrusions, keeping the information on your PC safe and private.

[Download](#) (8282 kB)

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### **Pimmy 3.5**

Pimmi is one of the lightest e-mail programs available, allowing you manage your mail on an unlimited number of mailboxes and write messages using different signatures and accounts. You can store your mail in easy-to-use folders on your disk, or delete it from the server before downloading it. Pimmy can automatically download and filter messages and allows you to write messages off-line and send them when connected. This email client also manages newsgroups displaying messages in tree view.

[Download](#) (361 kB)

### **Dexpot 1.3**

Dexpot increases the area of your screen by up to 20 times. It creates several Virtual Desktops to work easier and faster with many open windows on Windows 95/98/ME and NT4/2000/XP. Dexpot optimizes the window management of your PC, eliminates the problem of the disorder on your desktop and has many more functions. All functions use a unified graphical interface which is very easy to operate.

[Download](#) (1712 kB)

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### **Save2FTP 1.9**

Save2FTP is an easy-to-use utility that allows you automatically backup of your important data to remote FTP servers. It will help you organize your backups and schedule automatic backups. It has an intuitive user interface with advanced features easily accessible to beginners and professionals.

[Download](#) (998 kB)

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### **UltraFXP 1.07**

UltraFXP is an FTP client for MS Windows. It can transfer files from FTP servers directly to and from your local hard drive, or transfer files between FTP sites (site to site transfer). The user interface is very intuitive and comes with many features,

along with synchronization of folders and drag 'n drop.

[Download](#) (2883 kB)

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## **8) Question of the Month about Technical Training:**

Each month Scott Turton will answer a current or important question that we have received about computer and IT training and career development.

### **July 2007 Question of the Month:**

How is the SAP job market and how does it compare to jobs in other I.T. skill areas?

### **Answer:**

In the U.S. job market, SAP continues to do well, and is, in fact, the leading I.T. skill on Dice.com today. To get an idea of the job market for SAP and other leading I.T. technologies, I performed a search in Dice.com on job title only on July 18, 2007. I received the following results:

- SAP - 6420 jobs
- Java - 4523 jobs
- J2EE - 1709 jobs
- C++ - 1268 jobs
- .NET - 2846 jobs
- C# - 1607 jobs
- VB.Net - 361 jobs
- Oracle - 3895 jobs

This Computerworld article titled, "[SAP upgrades drive talent demand](#)", says "...job seekers who keep their (SAP) skills up to date can easily jump into these new roles. And as companies race to fill the positions, knowing when, where and how to build their skills can help IT pros edge out the competition and win jobs." It further clarifies that "Many hiring managers we spoke with voiced how difficult it is to find qualified candidates whose skills can support current implementations. The reason: SAP America is selling software at a double-digit compounded percentage rate in North America, leading to a flood of upgrades and installations that require new or heightened SAP skills."

The bottom line is, if you are looking to improve your current SAP skills, then you should try to get involved in an upgrade project to the latest SAP versions. Also, when interviewing for a SAP job, attempt to discover how the organization approaches its enterprise resource planning system. Look for those companies that see their ERP system less as a transaction system and more of a system that can be leveraged for business intelligence purposes by integrating its various parts with Web services.

I hopes this help you.

Scott Turton  
Site Editor  
<http://www.intelligentedu.com>

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## 9) Please Support Our Training Mission

<http://www.intelligentedu.com/support.html>

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**Computer Education, Training, & Tutorial Resources**

**<http://www.intelligentedu.com/>**

**Free I.T. Training Now!**

A free and member-based I.T. educational and training portal web site. We have compiled, categorized, described, and linked many, many sites that will be of keen interest to computer science students and instructors and others seeking free training and knowledge about computers. All areas are covered, from programming to systems administration to networking to the internet. You are able to study and learn all about computers and I.T. via Free training, courses, tutorials, books, guides, documentation, articles, tips, notes, and help. Also offered are free technical training tutorials co-branded with [Freeskills.com](http://www.freeskills.com/)/. Check us out today.

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**\*\*\* Intelligentedu.com's Member Site \*\*\***

<http://www.intelligentedu.com/sign-up/index.html>

Our Members' Site contains the web's best computer and IT training resources and tutorials. This content is individually linked and presented in a way to expedite and facilitate your IT learning experience. We have done all the web research and presentation work for you so you can concentrate solely on your computer training.

Intelligentedu.com Member Site FAQ Answers:

1. Over half of the web sites and pages in our members site are not in the free section of our web site. The online training resources in our members' site are linked and laid out in a much more detailed fashion than those in the free section. This will save you time in finding all the best free training on the web.
2. If you use a credit card when joining, you may choose to be billed by PayPal, or you may purchase from 2checkout.com, our authorized retailer, whichever you choose.
3. You have a choice to select the non-recurring or recurring method of payment. If you select non-recurring, when your membership period expires, you will not be automatically charged another fee on your credit card or check.
4. If you are looking for training and tutorials covering popular software such as Microsoft Office, Flash, Photoshop, Dreamweaver, Web Development, Windows and Computer Hardware, please see our sister site, <http://www.EducationOnlineForComputers.com>

The total price to join our member's site is only \$15.00 total for 2 months, \$25 for 4 months, \$34 for 6 months, or \$59 for a whole year. The funds generated will assist us to help all those seeking IT education and application development training. Here's the link to see what's available on our member's site and to sign up: [<http://www.intelligentedu.com/sign-up/index.html>](http://www.intelligentedu.com/sign-up/index.html). You can email Scott Turton



with questions at [scott\\_turton@intelligentedu.com](mailto:scott_turton@intelligentedu.com).

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