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Tools Sensei (First Edition)

There's nothing that hard-core Unix and Linux users are more fanatical about than their text editor. Editors are the subject of adoration and worship, or of scorn and ridicule, depending upon whether the topic of discussion is your editor or someone else's. vi has been the standard editor for close to 30 years. Popular on Unix and Linux, it has a growing following on Windows systems, too. Most experienced system administrators cite vi as their tool of choice. And since 1986, this book has been the guide for vi. However, Unix systems are not what they were 30 years ago, and neither is this book. While retaining all the valuable features of previous editions, the 7th edition of Learning the vi and vim Editors has been expanded to include detailed information on vim, the leading vi clone. vim is the default version of vi on most Linux systems and on Mac OS X, and is available for many other operating systems too. With this

guide, you learn text editing basics and advanced tools for both editors, such as multi-window editing, how to write both interactive macros and scripts to extend the editor, and power tools for programmers -- all in the easy-to-follow style that has made this book a classic. Learning the vi and vim Editors includes: A complete introduction to text editing with vi: How to move around vi in a hurry Beyond the basics, such as using buffers vi's global search and replacement Advanced editing, including customizing vi and executing Unix commands How to make full use of vim: Extended text objects and more powerful regular expressions Multi-window editing and powerful vim scripts How to make full use of the GUI version of vim, called gvim vim's enhancements for programmers, such as syntax highlighting, folding and extended tags Coverage of three other popular vi clones -- nvi, elvis, and vile -- is also included. You'll find several valuable appendixes, including an alphabetical quick reference to both vi and ex mode commands for regular vi and for vim, plus an updated appendix on vi and the Internet. Learning either vi or vim is required knowledge if you use Linux or Unix, and in either case, reading this book is essential. After reading this book, the choice of editor will be obvious for you too. Since

not all graphic formats are of equal complexity, author John Miano does not simply choose a number of file formats and devote a chapter to each one. Instead, he offers additional coverage for the more complex image file formats like PNG (a new standard) and JPEG, while providing all information necessary to use the simpler file formats. While including the well-documented BMP, XBM, and GIF formats for completeness, along with some of their less-covered features, this book gives the most space to the more intricate PNG and JPEG, from basic concepts to creating and reading actual files. Among its highlights, this book covers: -- JPEG Huffman coding, including decoding sequential mode JPEG images and creating sequential JPEG files-- Optimizing the DCT-- Portable Network Graphics format (PNG), including decompressing PNG image data and creating PNG files-- Windows BMP, XBM, and GIF This open access book summarizes knowledge about several file systems and file formats commonly used in mobile devices. In addition to the fundamental description of the formats, there are hints about the forensic value of possible artefacts, along with an outline of tools that can decode the relevant data. The book is organized into two distinct parts. First, Part I describes several different file systems

that are commonly used in mobile devices: APFS is the file system that is used in all modern Apple devices including iPhones, iPads, and even Apple Computers, like the MacBook series. Ext4 is very common in Android devices and is the successor of the Ext2 and Ext3 file systems that were commonly used on Linux-based computers. The Flash-Friendly File System (F2FS) is a Linux system designed explicitly for NAND Flash memory, common in removable storage devices and mobile devices, which Samsung Electronics developed in 2012. The QNX6 file system is present in Smartphones delivered by Blackberry (e.g. devices that are using Blackberry 10) and modern vehicle infotainment systems that use QNX as their operating system. Second, Part II describes five different file formats that are commonly used on mobile devices: SQLite is nearly omnipresent in mobile devices with an overwhelming majority of all mobile applications storing their data in such databases. The second leading file format in the mobile world are Property Lists, which are predominantly found on Apple devices. Java Serialization is a popular technique for storing object states in the Java programming language. Mobile application (app) developers very often resort to this technique to make their application state persistent. The Realm

database format has emerged over recent years as a possible successor to the now ageing SQLite format and has begun to appear as part of some modern applications on mobile devices. Protocol Buffers provide a format for taking compiled data and serializing it by turning it into bytes represented in decimal values, which is a technique commonly used in mobile devices. The aim of this book is to act as a knowledge base and reference guide for digital forensic practitioners who need knowledge about a specific file system or file format. It is also hoped to provide useful insight and knowledge for students or other aspiring professionals who want to work within the field of digital forensics. The book is written with the assumption that the reader will have some existing knowledge and understanding about computers, mobile devices, file systems and file formats. With this edition of Special Edition Using Office XP there is a continual emphasis on realistic applications and uses of the program features. While there are many other big books in the Office market today, there are few that tailor coverage uniquely for the intermediate to advanced Office user as Special Edition Using does, delivering more focused value for the customer. It has been updated to reflect Office XP's Smart tags, collaboration

features, speech and dictation tools, built-in recovery features, "add network place" wizard and much more Beyond the Basics... Beneath the Surface...In Depth Do more in less time! Whatever your Microsoft Office experience, don't let Office 2016 make you feel like a beginner! This book is packed with intensely useful knowledge, tips, and shortcuts you just won't find anywhere else. It's the fastest, best way to master Office 2016's full power, and the great new features built into Word, Excel, PowerPoint, Outlook, Publisher, and OneNote. This friendly, expert guide will make you way more productive... whether you're creating documents, analyzing data, delivering presentations, designing newsletters, taking quick notes, or managing your life! Take full advantage of Office 2016's cloud integration Use Insights for Office to quickly access information Easily create complex Word documents, from books to mail merges Coauthor Word documents with collaborators in real time Build flexible, reliable Excel workbooks with formulas and functions Transform data into insight with Excel charts and PivotTables Discover best practices for creating great PowerPoint slides, handouts, and notes Take advantage of the new Tell Me Box, which provides access to contextual and traditional Office help features including the new

Insights pane Use Outlook 2016's Clutter feature to clear away low-priority email
Create visually compelling documents of all kinds with Publisher 2016 Gather, organize, share, and use knowledge with OneNote 2016 Get more done faster by integrating OneNote with other Office 2016 components Discover Microsoft's new mobile Word, Excel, and PowerPoint apps for Windows 10 All In Depth books offer Comprehensive coverage, with detailed solutions Practical, real-world examples with nothing glossed over or left out Troubleshooting help for tough problems you can't fix on your own This book is part of Que's Content Update Program. As Microsoft updates features of Office, sections of this book will be updated or new sections will be added to match the updates to the software. See inside for details. Configure, run, and troubleshoot Windows Vista Home Premium or Windows Vista Home Basic with the detailed coverage you'll find in this comprehensive guide. With a task-based approach and clear instructions, this book helps you become an advanced user of Windows Vista—even if you're just starting out. From administering your computer and surfing the Web securely to advanced maneuvers such as creating your own movies and burning DVDs, you'll find what you need to master the powerful features of

Windows Vista. This book illustrates the potential for computer simulation in the study of modern slavery and worker abuse, and by extension in all social issues. It lays out a philosophy of how agent-based modelling can be used in the social sciences. In addressing modern slavery, Chesney considers precarious work that is vulnerable to abuse, like sweat-shop labour and prostitution, and shows how agent modelling can be used to study, understand and fight abuse in these areas. He explores the philosophy, application and practice of agent modelling through the popular and free software NetLogo. This topical book is grounded in the technology needed to address the messy, chaotic, real world problems that humanity faces—in this case the serious problem of abuse at work—but equally in the social sciences which are needed to avoid the unintended consequences inherent to human responses. It includes a short but extensive NetLogo guide which readers can use to quickly learn this software and go on to develop complex models. This is an important book for students and researchers of computational social science and others interested in agent-based modelling. An explanation of the basic principles of data This book explains the basic principles of data as buildingblocks of electronic

evidential matter, which are used in a cyberforensics investigations. The entire text is written with noreference to a particular operation system or environment, thus itis applicable to all work environments, cyber investigationscenarios, and technologies. The text is written in astep-by-step manner, beginning with the elementary buildingblocks of data progressing upwards to the representation andstorage of information. It inlcudes practical examples andillustrations throughout to guide the reader. Helping you quickly get up to speed, THE SHELLY CASHMAN SERIES MICROSOFT 365 & OFFICE 2021 INTERMEDIATE, 1st edition, includes the latest on Microsoft 365 and Office 2021 features along with enhanced support for Mac users. Its trademark step-by-step, screen-by-screen, project-based approach enables you to expand your understanding of Office applications through hands-on experimentation and critical thinking. Module Learning Objectives are mapped to Microsoft Office Specialist (MOS) certification objectives, reinforcing the critical skills needed for college and career success. In addition, Other Ways boxes reveal alternate click paths to achieve a step, while BTW call-outs offer helpful hints as you work through your projects so you can make the most of Microsoft Office tools. Important Notice:

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Annotation copyrighted by Book News, Inc., Portland, OR Windows® 8.1 IN DEPTH Do more in less time! Experienced with Windows? Don't let Windows 8.1 make you feel like a beginner again! This book is packed with intensely useful knowledge you won't find anywhere else. Full of new tips and shortcuts, it's the fastest, best way to master Windows 8.1's full power, get comfortable with its radically different interface, and leverage its new tools for everything from business to video, security to social networking! • Take a quick guided tour of everything that's new in Windows 8.1 • Survive without the Start menu • Navigate the Windows 8.1 interface (and

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In Depth is the only tool you need to get more done in less time! CATEGORY: Windows Operating System COVERS: Microsoft® Windows 8.1 Windows XP

In a Nutshell is a comprehensive, compact reference that systematically documents what serious users need to know about both Windows XP Home Edition and Windows XP Professional. Part of the bestselling "In a Nutshell" series, this book contains more information about using Windows XP than any other book on the market. Guaranteed.

Windows XP in a Nutshell was cowritten by David A. Karp, author of the no-nonsense Windows Annoyances book series and creator of the popular Annoyances.org web site, and Tim O'Reilly, the publisher whose books have revolutionized computer book publishing with their common-sense approach, depth of detail, and focus on practical information that you can really use.

In Windows XP in a Nutshell, you'll find:

- Detailed information on virtually every command and utility available in Windows XP, including both Windows-based and command prompt-based applications and accessories (not just those in the Start menu);
- Detailed advice and documentation on system configuration,

with extensive coverage of the Control Panel, the Registry Editor, and the Microsoft Management Console; A comprehensive guide to every setting in every dialog box, menu, and Properties sheet throughout Windows XP; Quick reference to keyboard shortcuts, special symbols, common filename extensions, and background services; A detailed treatment of networking, describing how to build a home or SOHO network, the best ways to connect to the Internet, and how to implement a high level of security in an insecure world; Hundreds of tips, gotchas, and clever ways to do familiar and not-so-familiar tasks; A reference to the Windows Script Host (WSH), the system that lets you use VBScript, JavaScript, and even Perl to automate common tasks; A better guide to upgrading and migrating to Windows XP than you'll find anywhere else. This book and companion disk are designed for accomplished programmers who understand the Windows environment and want to optimize their files. The text will especially benefit tool developers, multimedia developers, and graphic tool developers. Microsoft® Windows Vista™ Unleashed, Second Edition Paul McFedries
Second Edition Includes coverage of Windows Vista Service Pack 1! Microsoft Windows Vista Unleashed, Second Edition, is a book for people, like you, who don't consider

themselves to be “average users.” It’s a book for anyone who finds that doing things the official way is slower, less efficient, and less powerful because Windows Vista was designed from the ground up to avoid confusing novice users. The result is default settings that restrict flexibility, interminable wizards that turn 2-step tasks into 12-step sagas, and the hiding of powerful and useful programs behind layers of menus and dialog boxes. To unleash the potential of Windows Vista, you need a different approach that blows away Vista’s novice features and scorns the standard way of doing things. This book goes beyond the standard-issue techniques sanctioned by Microsoft and parroted in other Windows Vista books. Instead, this book offers shortcuts for boosting your productivity, customizations for making Windows Vista work the way you do, workarounds for known Windows Vista problems, and warnings for avoiding Windows Vista pitfalls. Along the way, you’ll learn about all kinds of insider details, undocumented features, powerful tools, and background facts that help put everything into perspective. Paul McFedries is the president of Logophilia Limited, a technical writing company. He has been working with computers for more than 30 years and has been using Microsoft Windows since version 1. Paul has

written more than 50 books that have sold more than 3 million copies worldwide. Learn what's new in Windows Vista Service Pack 1 Customize Windows Vista startup Troubleshoot software and hardware problems Tune Windows Vista's performance Automate Windows Vista with powerful and flexible scripts Implement Internet security and privacy features Configure and administer a small network Get the most out of Control Panel, group policies, the Registry, Device Manager, and other powerful tools Set up a complete maintenance program to keep Windows Vista running smoothly Discover a complete list of Windows Vista shortcut keys, a detailed look at the Command Prompt, and a batch file primer Master the new desktop search engine and learn how to group, stack, and filter files Understand and work with Windows Vista's User Account Control security feature Get the most out of your Tablet PC Take advantage of new Internet features such as RSS feeds, multiple home pages, and tabbed browsing Category: Microsoft Operating Systems Covers: Microsoft Windows Vista User Level: Intermediate—Advanced "Fully updated and revised for Eclipse 3.0, this book is the definitive Eclipse reference--an indispensable guide for tool builders, rich client application developers, and anyone customizing or extending the Eclipse

environment." --Dave Thomson, Eclipse Project Program Director, IBM The Ultimate Guide to Eclipse 3.0 for the Java Developer. No Eclipse Experience Required! Eclipse is a world-class Java integrated development environment (IDE) and an open source project and community. Written by members of the IBM Eclipse Jumpstart team, The Java(tm) Developer's Guide to Eclipse, Second Edition, is the definitive Eclipse companion. As in the best-selling first edition, the authors draw on their considerable experience teaching Eclipse and mentoring developers to provide guidance on how to customize Eclipse for increased productivity and efficiency. In this greatly expanded edition, readers will find A total update, including the first edition's hallmark, proven exercises--all revised to reflect Eclipse 3.0 changes to the APIs, plugins, UI, widgets, and more A special focus on rich client support with a new chapter and two exercises A comprehensive exercise on using Eclipse to develop a Web commerce application using Apache's Tomcat A new chapter on JFace viewers and added coverage of views A new chapter on internationalization and accessibility New chapters on performance tuning and Swing interoperability Using this book, those new to Eclipse will become proficient with it, while advanced developers

will learn how to extend Eclipse and build their own Eclipse-based tools. The accompanying CD-ROM contains Eclipse 3.0, as well as exercise solutions and many code examples. Whether you want to use Eclipse and Eclipse-based offerings as your integrated development environment or customize Eclipse further, this must-have book will quickly bring you up to speed. This is nothing less than a totally essential reference for engineers and researchers in any field of work that involves the use of compressed imagery. Beginning with a thorough and up-to-date overview of the fundamentals of image compression, the authors move on to provide a complete description of the JPEG2000 standard. They then devote space to the implementation and exploitation of that standard. The final section describes other key image compression systems. This work has specific applications for those involved in the development of software and hardware solutions for multimedia, internet, and medical imaging applications. Contains instructions for timesaving techniques when using Microsoft Windows Vista, covering such topics as customizing the desktop, managing passwords, setting security, streamlining maintenance, working with multimedia, and setting up a home network. An engaging read, this text imparts

best practices for using the Perforce Software Configuration Management system--written by a Perforce insider. In the second edition of this very successful book, Tony Sammes and Brian Jenkinson show how the contents of computer systems can be recovered, even when hidden or subverted by criminals. Equally important, they demonstrate how to insure that computer evidence is admissible in court. Updated to meet ACPO 2003 guidelines, *Forensic Computing: A Practitioner's Guide* offers: methods for recovering evidence information from computer systems; principles of password protection and data encryption; evaluation procedures used in circumventing a system's internal security safeguards, and full search and seizure protocols for experts and police officers. Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Networked computing, wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations. Practically every crime now involves some aspect of digital evidence; digital forensics provides the techniques and tools to articulate this evidence. Digital forensics also has myriad intelligence applications. Furthermore, it has a vital role

in information assurance -- investigations of security breaches yield valuable information that can be used to design more secure systems. Advances in Digital Forensics VII describes original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include: Themes and Issues, Forensic Techniques, Fraud and Malware Investigations, Network Forensics, and Advanced Forensic Techniques. This book is the 7th volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics. The book contains a selection of 21 edited papers from the 7th Annual IFIP WG 11.9 International Conference on Digital Forensics, held at the National Center for Forensic Science, Orlando, Florida, USA in the spring of 2011. Advances in Digital Forensics VII is an important resource for researchers, faculty members and graduate students, as well as for practitioners and individuals engaged in

research and development efforts for the law enforcement and intelligence communities. Gilbert Peterson is an Associate Professor of Computer Engineering at the Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA. Sujeet Sheno is the F.P. Walter Professor of Computer Science at the University of Tulsa, Tulsa, Oklahoma, USA.

A resource to help forensic investigators locate, analyze, and understand digital evidence found on modern Linux systems after a crime, security incident or cyber attack. Practical Linux Forensics dives into the technical details of analyzing postmortem forensic images of Linux systems which have been misused, abused, or the target of malicious attacks. It helps forensic investigators locate and analyze digital evidence found on Linux desktops, servers, and IoT devices. Throughout the book, you learn how to identify digital artifacts which may be of interest to an investigation, draw logical conclusions, and reconstruct past activity from incidents. You'll learn how Linux works from a digital forensics and investigation perspective, and how to interpret evidence from Linux environments. The techniques shown are intended to be independent of the forensic analysis platforms and tools used. Learn how to: Extract evidence from storage devices and

analyze partition tables, volume managers, popular Linux filesystems (Ext4, Btrfs, and Xfs), and encryption Investigate evidence from Linux logs, including traditional syslog, the systemd journal, kernel and audit logs, and logs from daemons and applications Reconstruct the Linux startup process, from boot loaders (UEFI and Grub) and kernel initialization, to systemd unit files and targets leading up to a graphical login Perform analysis of power, temperature, and the physical environment of a Linux machine, and find evidence of sleep, hibernation, shutdowns, reboots, and crashes Examine installed software, including distro installers, package formats, and package management systems from Debian, Fedora, SUSE, Arch, and other distros Perform analysis of time and Locale settings, internationalization including language and keyboard settings, and geolocation on a Linux system Reconstruct user login sessions (shell, X11 and Wayland), desktops (Gnome, KDE, and others) and analyze keyrings, wallets, trash cans, clipboards, thumbnails, recent files and other desktop artifacts Analyze network configuration, including interfaces, addresses, network managers, DNS, wireless artifacts (Wi-Fi, Bluetooth, WWAN), VPNs (including WireGuard), firewalls, and proxy settings Identify traces of attached peripheral devices (PCI, USB,

Thunderbolt, Bluetooth) including external storage, cameras, and mobiles, and reconstruct printing and scanning activity. The book is written for an undergraduate course on digital electronics. The book provides basic concepts, procedures and several relevant examples to help the readers to understand the analysis and design of various digital circuits. It also introduces hardware description language, VHDL. The book teaches you the logic gates, logic families, Boolean algebra, simplification of logic functions, analysis and design of combinational circuits using SSI and MSI circuits and analysis and design of the sequential circuits. This book provides in-depth information about multiplexers, demultiplexers, decoders, encoders, circuits for arithmetic operations, various types of flip-flops, counters and registers. It also covers asynchronous sequential circuits, memories and programmable logic devices. This book is the second edition of a critically acclaimed reference. AppleScript is a scripting language allowing users add functionality to the Mac operating system, automating tasks, adding functions, making things easier. It's popular because it's available for free on any Mac operating system, and it is easy to pick up and use, so it is within the bounds of any fairly proficient Mac user, not just

developers. The new edition offers a complete guide to using AppleScript, from beginning steps, right up to the professional level - nothing is left out. This edition is updated to support AppleScript 1.10/Mac OS X Tiger.

Windows 7 may be faster and more stable than Vista, but it's a far cry from problem-free. David A. Karp comes to the rescue with the latest in his popular Windows Annoyances series. This thorough guide gives you the tools you need to fix the troublesome parts of this operating system, plus the solutions, hacks, and timesaving tips to make the most of your PC. Streamline Windows Explorer, improve the Search tool, eliminate the Green Ribbon of Death, and tame User Account Control prompts. Explore powerful Registry tips and tools, and use them to customize every aspect of Windows and solve its shortcomings. Squeeze more performance from your hardware with solutions for your hard disk, laptop battery, CPU, printers, and more. Stop crashes, deal with stubborn hardware and drivers, fix video playback issues, and troubleshoot Windows when it won't start. Protect your stuff with permissions, encryption, and shadow copies. Secure and speed up your wireless network, fix networking woes, make Bluetooth functional, and improve your Web experience. Get nearly all of the goodies in Windows 7 Ultimate, no matter which

edition you have "Blunt, honest, and awesome."
--Aaron Junod, Manager, Integration Systems at
Evolution Benefits "This could be the best
[money] you've ever spent." --Jon Jacobi, PC
World "To use Windows is to be annoyed -- and
this book is the best way to solve any
annoyance you come across. It's the most
comprehensive and entertaining guide you can
get for turning Windows into an operating
system that's a pleasure to use." --Preston
Gralla, author of Windows Vista in a Nutshell,
and Computerworld contributing editor Beyond
the Basics...Beneath the Surface...In Depth
Microsoft Word 2010 IN DEPTH Advice and
techniques that you need to get the job done.
Looking for ways to streamline your work so
you can focus on maximizing your time? In
Depth provides specific, tested, and proven
solutions to the problems you run into every
day—things other books ignore or oversimplify.
This is the one book you can rely on to answer
the questions you have now and will have in
the future. In Depth offers Comprehensive
coverage with detailed solutions Breakthrough
techniques and shortcuts that are unavailable
elsewhere Practical, real-world examples with
nothing glossed over or left out
Troubleshooting help for tough problems you
can't fix on your own Outstanding authors
recognized worldwide for their expertise and

teaching style Quick information via sidebars, tips, reminders, notes, and warnings In Depth is the only tool you need to get more done in less time! Introduction. Modern Music Education -- Creativity in Music Education -- Technology in Music Education -- The Informal Learning Approach -- Digital Audio Workstations -- Notation Software -- Other Online Tools for Fostering Creativity -- Makey Makey and Coding for Creativity -- Electronic, Digital, and Virtual Instruments -- Tech for Facilitating Creativity with Small Ensembles -- Other Considerations. The Third International Conference on Network Security and Applications (CNSA-2010) focused on all technical and practical aspects of security and its applications for wired and wireless networks. The goal of this conference is to bring together researchers and practitioners from academia and industry to focus on understanding modern security threats and countermeasures, and establishing new collaborations in these areas. Authors are invited to contribute to the conference by submitting articles that illustrate research results, projects, survey work and industrial experiences describing significant advances in the areas of security and its applications, including:

- Network and Wireless Network Security
- Mobile, Ad Hoc and Sensor Network

Security • Peer-to-Peer Network Security • Database and System Security • Intrusion Detection and Prevention • Internet Security, and Applications Security and Network Management • E-mail Security, Spam, Phishing, E-mail Fraud • Virus, Worms, Trojan Protection • Security Threats and Countermeasures (DDoS, MiM, Session Hijacking, Replay attack etc.) • Ubiquitous Computing Security • Web 2.0 Security • Cryptographic Protocols • Performance Evaluations of Protocols and Security Application

There were 182 submissions to the conference and the Program Committee selected 63 papers for publication. The book is organized as a collection of papers from the First International Workshop on Trust Management in P2P Systems (IWTMP2PS 2010), the First International Workshop on Database Management Systems (DMS- 2010), and the First International Workshop on Mobile, Wireless and Networks Security (MWNS-2010). Key ideas in programming language design and implementation explained using a simple and concise framework; a comprehensive introduction suitable for use as a textbook or a reference for researchers. Hundreds of programming languages are in use today—scripting languages for Internet commerce, user interface programming tools, spreadsheet macros, page format specification

languages, and many others. Designing a programming language is a metaprogramming activity that bears certain similarities to programming in a regular language, with clarity and simplicity even more important than in ordinary programming. This comprehensive text uses a simple and concise framework to teach key ideas in programming language design and implementation. The book's unique approach is based on a family of syntactically simple pedagogical languages that allow students to explore programming language concepts systematically. It takes as premise and starting point the idea that when language behaviors become incredibly complex, the description of the behaviors must be incredibly simple. The book presents a set of tools (a mathematical metalanguage, abstract syntax, operational and denotational semantics) and uses it to explore a comprehensive set of programming language design dimensions, including dynamic semantics (naming, state, control, data), static semantics (types, type reconstruction, polymorphism, effects), and pragmatics (compilation, garbage collection). The many examples and exercises offer students opportunities to apply the foundational ideas explained in the text. Specialized topics and code that implements many of the algorithms

and compilation methods in the book can be found on the book's Web site, along with such additional material as a section on concurrency and proofs of the theorems in the text. The book is suitable as a text for an introductory graduate or advanced undergraduate programming languages course; it can also serve as a reference for researchers and practitioners. Details a variety of front-end technologies and techniques and reviews Web design fundamentals while explaining how to work with HTML, graphics, and multimedia and interactive applications. If you need Windows XP solutions fast, then this book is for you-whether you're new to Windows XP or you need help dealing with the applications that come with it. Open the book and you'll discover clear, easy-to-follow instructions for more than 250 key Windows XP tasks, each presented in ten quick steps-or less. Easy-to-navigate pages, lots of screen shots, and to-the-point directions guide you through every common (and not-so-common) Windows XP challenge-and help you get more done in less time. * Each solution is ten steps-or less-to help you get the job done fast * Self-contained two-page spreads deliver the answers you need-without flipping pages * A no-fluff approach focuses on helping you achieve results * A resource packed with useful and

fun ways to get the most out of Windows XP

Several recent papers underline methodological points that limit the validity of published results in imaging studies in the life sciences and especially the neurosciences (Carp, 2012; Ingre, 2012; Button et al., 2013; Ioannidis, 2014). At least three main points are identified that lead to biased conclusions in research findings: endemic low statistical power and, selective outcome and selective analysis reporting. Because of this, and in view of the lack of replication studies, false discoveries or solutions persist. To overcome the poor reliability of research findings, several actions should be promoted including conducting large cohort studies, data sharing and data reanalysis. The construction of large-scale online databases should be facilitated, as they may contribute to the definition of a "collective mind" (Fox et al., 2014) facilitating open collaborative work or "crowd science" (Franzoni and Sauermann, 2014). Although technology alone cannot change scientists' practices (Wicherts et al., 2011; Wallis et al., 2013, Poldrack and Gorgolewski 2014; Roche et al. 2014), technical solutions should be identified which support a more "open science" approach. Also, the analysis of the data plays an important role. For the analysis of large datasets, image processing

pipelines should be constructed based on the best algorithms available and their performance should be objectively compared to diffuse the more relevant solutions. Also, provenance of processed data should be ensured (MacKenzie-Graham et al., 2008). In population imaging this would mean providing effective tools for data sharing and analysis without increasing the burden on researchers. This subject is the main objective of this research topic (RT), cross-listed between the specialty section "Computer Image Analysis" of Frontiers in ICT and Frontiers in Neuroinformatics.

Firstly, it gathers works on innovative solutions for the management of large imaging datasets possibly distributed in various centers. The paper of Danso et al. describes their experience with the integration of neuroimaging data coming from several stroke imaging research projects. They detail how the initial NeuroGrid core metadata schema was gradually extended for capturing all information required for future metaanalysis while ensuring semantic interoperability for future integration with other biomedical ontologies. With a similar preoccupation of interoperability, Shanoir relies on the OntoNeuroLog ontology (Temal et al., 2008; Gibaud et al., 2011; Batrancourt et al., 2015), a semantic model that formally

described entities and relations in medical imaging, neuropsychological and behavioral assessment domains. The mechanism of "Study Card" allows to seamlessly populate metadata aligned with the ontology, avoiding fastidious manual entrance and the automatic control of the conformity of imported data with a predefined study protocol. The ambitious objective with the BIOMIST platform is to provide an environment managing the entire cycle of neuroimaging data from acquisition to analysis ensuring full provenance information of any derived data. Interestingly, it is conceived based on the product lifecycle management approach used in industry for managing products (here neuroimaging data) from inception to manufacturing. Shanoir and BIOMIST share in part the same OntoNeuroLog ontology facilitating their interoperability. ArchiMed is a data management system locally integrated for 5 years in a clinical environment. Not restricted to Neuroimaging, ArchiMed deals with multi-modal and multi-organs imaging data with specific considerations for data long-term conservation and confidentiality in accordance with the French legislation. Shanoir and ArchiMed are integrated into FLI-IAM1, the national French IT infrastructure for in vivo imaging. Do more in less time! Whether you're an entrepreneur,

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