

ORIGINAL ARTICLE

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Application of Adobe® Photoshop® CC 2018 for identifying color laser printer source of Xerox® brand



Ahmad Saed Salim^{1*} and Asmaa Abdel Monsef Abdalla²

Abstract

Background: In a field of digital forensic science, we have struggled to prove and keep any evidence in its most original form. The seized source of color laser printers in forgery crimes has been still an awkward issue today in digital forensic labs for identification. Till now no any scientific method has reported at all over the world that could be applied to make a success in an investigation for identifying the source of color laser printers with accuracy ratio 100%.

Method: We have explored an advanced security feature that has embedded in the color laser printouts of Xerox® brand. Adobe® Photoshop® CC 2018 has used as an indirect and nondestructive tool for our work.

Results: In this study, we could detect the hidden information (steganalysis) embedded in the color laser printouts of Xerox® brand candidate. Therefore, we could extract the clear precise machine identification code pattern corresponding to each color laser printer of Xerox® brand selected.

Conclusion: Via Adobe® Photoshop® CC 2018, we could successfully track all active security features characteristic of the color laser printers of Xerox® brand. Moreover, we could detect the identity and uniqueness of each color laser printer which had studied with an accuracy ratio reached to a hundred percent.

Keywords: Digital forensic science, Color laser printer steganography, Embedded security features, Adobe Photoshop

Main text

Since 1990, the Japan Business Machine Makers Association (JBMA) adopted a Counterfeit Protection System to decrease the counterfeiting and positively identify color laser copiers used illegally (MAPS Workshop, 2000) (Tweedy, 2001). In 2010, with a concordance between the US Secret Service and Freedom of Information Act (FOIA) and printer manufacturers (Canon, Brother, Casio, Hewlett-Packard, Konica, Minolta, Ricoh, Sharp and Xerox) agreed for commitments for identification counterfeiting crimes had committed via color laser machines. Therefore, the determination of color laser printers source seized in forgery crimes became one of the most challenges in digital forensic labs today.

In the last decade, digital forensic labs have introduced excess approaches to try catching a source of a defendant color laser printer such as, halftone analysis (Kim & Lee, 2014), statistical analysis of discrete wavelet transform (J. Choi et al., 2009) and noisy features analysis (J. H. Choi, Lee, & Lee, 2013), etc. have used. Notwithstanding, the previous methods could give good evidence but didn't reach to hundred percent in their detections. So, we have explored a new methodology for identifying the color laser printer source in a good attend enabling us to achieve an accuracy ratio hundred percent in our investigations. In our work, we have followed an active strategy for the identification. The active strategy has presented as a form of steganography for securing color laser printouts (Mace, 2010). The printer steganography consisted of embedded small microdots in their sizes, appeared in yellow color for a naked eye by zooming in with 36 X and

* Correspondence: scholar_ahmad2006@yahoo.com, AhmadSaedSalim@ps.gov.eg

¹Forgery and Counterfeiting Researches Department, Forensic Medicine authority, Ministry of Justice, Cairo 11581, Egypt
Full list of author information is available at the end of the article

Adobe Photoshopr Panel Developers Guide

Marco Casario



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Development will make you an even more potent and indispensable force on any development team **Adobe Photoshop**

Lightroom 2 for Digital Photographers Only Rob Sheppard,2008-11-03 Veteran photographer Rob Sheppard finds that Lightroom 2 can give you back the control over color images that photographers once enjoyed in the traditional darkroom Packed with secrets Rob has discovered and developed this book shows you how Lightroom processes RAW and JPEG files non destructively how to navigate quickly through your photos in any module with Filmstrip how you can optimize your photos easily with the adjustment brush and graduated filter tools speedy and simple ways to process multiple images and how to prepare images for print or online display **Adobe Photoshop Lightroom Classic For Dummies** Rob

Sylvan,2019-07-11 Edit organize store and share photos Whether you are brand new to photography a devoted enthusiast or a seasoned pro there s a version of Lightroom for you Lightroom For Dummies is the book to help you learn which version of Lightroom is right for your needs The main focus of the book is on using Lightroom Classic but also includes an introduction to Lightroom CC All with the goal of helping you get started on the right foot toward taking your photographic workflow to the next level The book is a great starting place to help you improve your family photos or add advanced Lightroom skills that aid your career Look inside to find the steps to navigating the software and getting top notch results Deciding which version of Lightroom is the best fit Take control of your photo library with Lightroom Classic Importing organizing and finding photos Editing and sharing your photos Producing a slideshow book print or web gallery Gain a foundation for getting started with Lightroom CC Get ready to spend less time in front of the computer and more time behind the lens [Learn Design for iOS](#)

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Responsive Web Design with Adobe Photoshop Dan Rose, 2015-01-12 For a couple of decades now designers have used Photoshop to mock up Web page designs However that work generally results in a static graphic of the page which has to be translated by a developer into the components of a Web page HTML files and Web compatible image files Our multi device world has shown us that this

approach to web design including full page comps done in Photoshop is increasingly problematic Modern web designers are adopting a new approach creating flexible web pages whose layout can adapt to suit the screen on which they are displayed This is Responsive Web Design RWD Until now books on designing responsive Web sites have focused on HTML and CSS in other words they've been very code centric and visual creativity seems to take a back seat This new book is aimed at the visual Web designer who's accustomed to working in Photoshop Adobe Photoshop CC contains many new features that help streamline the process of converting a static page design to a set of components for a responsive web page Dan Rose is one of the best known advocates of this new way of working in Photoshop He's observed that only a few people are talking about Photoshop for RWD constructively yet a majority 63% as of his last informal poll of web designers are using Photoshop for more than simple asset creation This transition is a pain point for many designers His new book will balance coverage of conceptual issues how to fit tools like Photoshop to the design workflow rather than fitting a workflow to the tools with practical design exercises tailored to help communicate the overall design direction of the page while respecting the needs of the fluid Web In addition he will introduce methods for taking HTML back into Photoshop for further refinement

Dreamweaver CS5.5: The Missing Manual David Sawyer McFarland, 2011-06-22 Dreamweaver is the tool most widely used for designing and managing professional looking websites but it's a complex program That's where Dreamweaver CS5.5 The Missing Manual comes in With its jargon free explanations 13 hands on tutorials and savvy advice from Dreamweaver expert Dave McFarland you'll master this versatile program with ease Get A to Z guidance Go from building your first web page to creating interactive database driven sites Build skills as you learn Apply your knowledge through tutorials and downloadable practice files Create a state of the art website Use powerful easy to use tools such as CSS3 and Spry effects to build visually rich fast loading pages Add instant interactivity Choose from pre packaged JavaScript programs to add drop down menus tabbed panels forms and other features Tap into databases Connect your site to a database and build pages that dynamically sort and display stored information Go mobile Build and preview websites for smartphones and tablets Discover hidden tips and tricks Get undocumented workarounds and shortcuts

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Adobe Photoshop Panel Developers Guide**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Adobe Photoshop Panel Developers Guide

1. Understanding the eBook Adobe Photoshop Panel Developers Guide
 - The Rise of Digital Reading Adobe Photoshop Panel Developers Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Adobe Photoshop Panel Developers Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Adobe Photoshop Panel Developers Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Adobe Photoshop Panel Developers Guide
 - Personalized Recommendations
 - Adobe Photoshop Panel Developers Guide User Reviews and Ratings

- Adobe Photoshopr Panel Developers Guide and Bestseller Lists
- 5. Accessing Adobe Photoshopr Panel Developers Guide Free and Paid eBooks
 - Adobe Photoshopr Panel Developers Guide Public Domain eBooks
 - Adobe Photoshopr Panel Developers Guide eBook Subscription Services
 - Adobe Photoshopr Panel Developers Guide Budget-Friendly Options
- 6. Navigating Adobe Photoshopr Panel Developers Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Adobe Photoshopr Panel Developers Guide Compatibility with Devices
 - Adobe Photoshopr Panel Developers Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Adobe Photoshopr Panel Developers Guide
 - Highlighting and Note-Taking Adobe Photoshopr Panel Developers Guide
 - Interactive Elements Adobe Photoshopr Panel Developers Guide
- 8. Staying Engaged with Adobe Photoshopr Panel Developers Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Adobe Photoshopr Panel Developers Guide
- 9. Balancing eBooks and Physical Books Adobe Photoshopr Panel Developers Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Adobe Photoshopr Panel Developers Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Adobe Photoshopr Panel Developers Guide
 - Setting Reading Goals Adobe Photoshopr Panel Developers Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Adobe Photoshopr Panel Developers Guide
 - Fact-Checking eBook Content of Adobe Photoshopr Panel Developers Guide
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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