UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

HP INC.; DELL TECHNOLOGIES INC.; DELL INC.; ASUSTEK COMPUTER INC.; and ASUS GLOBAL PTE. LTD.,
Petitioner

v.

LITL LLC,
Patent Owner

IPR2024-00404
U.S. Pat. No. 8,624,844

DECLARATION OF JACKOB BEN-EZRA

Declaration of Jackob Ben-Ezra

I Jackob Ben-Ezra, declare as follows:

1. I am an attorney at DLA Piper LLP (US). I am familiar with the facts set forth herein. If called as a witness in this proceeding, I could and would competently testify to all facts within my personal knowledge except where stated upon information and belief.

2. Attached hereto as **Exhibit 1** is a true and correct copy of a record for copyright Registration No. TX0006158941 dated April 27, 2005, which I downloaded from the U.S. Copyright Office website (www.copyright.gov) on January 18, 2024, for the book titled *Windows XP Pro: The Missing Manual (2nd Edition)*, by David Pogue. The copyright registration record states that the book was published November 23, 2004 and has 689 pages (which matches the last native page number in EX1007).

3. Attached hereto as **Exhibit 2** is a true and correct copy of an Amazon webpage for the book titled *Windows XP Pro: The Missing Manual (2nd Edition)*, by David Pogue and identified by ISBN-13: 978-0596008987/ISBN-10: 0596008988 (the same ISBN numbers on rear cover of EX1007), which I visited on January 11, 2024. Toward the bottom of the webpage is an option to see customer reviews. When I clicked "See more reviews" I sorted all customer reviews by "Most recent," populating four pages of web reviews. Attached hereto

as **Exhibit 3** are true and correct copies of four webpages of Amazon.com reviews (which prints out to 17 pages). These four webpages contain 38 user reviews of the book, of which 14 are dated before April 1, 2008 and 13 are dated before April 1, 2007. The earliest review is dated January 15, 2003.

4. Attached hereto as **Exhibit 4** is a true and correct copy of the Amazon.com webpage for the book titled *Windows XP Pro: The Missing Manual (2nd Edition)*, by David Pogue Pogue and identified by ISBN-13: 978-0596008987/ISBN-10: 0596008988, with a capture date of January 4, 2007, which I obtained from Archive.org on January 11, 2024. This webpage shows a link, "Add to Shopping Cart," indicating the book was for sale. This webpage also contains six user reviews of the book, all dated before the capture date, January 4, 2007.

5. Attached hereto as **Exhibit 5** is a true and correct copy of the O'Reilly Media Inc.'s Catalog webpage for the book titled *Windows XP Pro: The Missing Manual (2nd Edition)*, by David Pogue and identified by ISBN-10: 0596008988, with a capture date of July 28, 2006, which I obtained on January 22, 2024. The webpage contains a section called "Reader Reviews From Amazon (Ranked by 'Helpfulness')," which includes a quote from a review with an accompanying date of "March 2004."

6. Attached hereto as **Exhibit 6** is a true and correct copy of an article and supporting images from CNET's news.com.com website titled "The $100 laptop moves closer to reality". The article has a capture date of October 19, 2005 and the images have a capture date of October 13, 2005, both of which I obtained from Archive.org on January 16, 2024.

7. Attached hereto as **Exhibit 7** is a true and correct copy of a magazine article entitled "Your Next Operating System," from PC Magazine, dated September 26, 1995.

I declare under the penalty of perjury under the laws of the United States of America that the foregoing is true and correct. I understand that willful false statements are punishable by fine or imprisonment or both (18 U.S.C. § 1001).

Executed on January 24, 2024 in Houston, Texas.

/Jackob Ben-Ezra/
Jackob Ben-Ezra

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Type of Work: Text
Registration Number / Date: TX0006158941 / 2005-04-27
Title: Windows XP Pro : the missing manual / David Pogue, Craig Zacker and L. J. Zacker.
Edition: 2nd ed.
Imprint: Sebastopol, CA : O'Reilly, c2004.
Description: 689 p.
Copyright Claimant: Pogue Press
Date of Creation: 2004
Date of Publication: 2004-11-23
Previous Registration: Prev. reg.
Basis of Claim: New Matter: updating & revisions.
Variant title: Windows XP Pro : the missing manual
Names: Pogue, David
Zacker, Craig
Zacker, L. J.
Pogue Press

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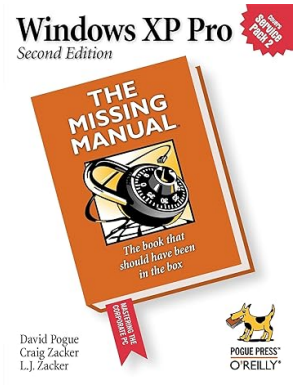

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Windows XP Pro: The Missing Manual: The Missing Manual Second Edition

by David Pogue (Author), Craig Zacker (Author), L.J. Zacker (Author)

4.3 ★★★★☆ 38 ratings See all formats and editions

With the release of Windows XP Service Pack 2 (SP2), Microsoft latest and most reliable corporate desktop operating system now provides better protection against viruses, worms, and malicious hackers. SP2 includes Windows Firewall, Pop-up Blocker for Internet Explorer, and the new Windows Security Center. But it still comes without a single page of printed instructions. This superbly written guide fills the gap. Coauthored by David Pogue, *New York Times* technology columnist and Missing Manuals creator, *Windows XP Pro: The Missing Manual* uses wit, technical insight, and scrupulous objectivity to light the way for first-time and intermediate network and standalone PC users. In fact, this jargon-free book explains XP's features so clearly revealing which work well and which don't that it should have been in the box in the first place. The book reveals which features work well and which don't, such as the Remote Desktop software that enables people to connect to the office from home, the encryption file system that protects sensitive information, and the Windows Messenger that enables real-time text, voice and video communication. Contents include:

- **Getting started**. The book's early chapters cover using menus, finding lost files, reducing window clutter, and taming the new, multi-column Start menu.
- **Mastering the network**. Special chapters help you navigate the corporate network, dial in from the road, and even set up your own small-office (peer-to-peer) network, step by step.
- **Understanding security**. User accounts, file encryption, and the NTFS file system keep your private files private, while still offering network access to coworkers you specify.
- **Flying the Net**. This book demystifies Outlook Express 6 for email, Internet Explorer 6 for Web browsing, and the new Windows Messenger for voice, chat, and video conferencing.

Windows XP Pro: The Missing Manual isn't for system administrators or OS theory geeks; it's for the novice or budding power user who wants to master the machine and get down to work. Yet, anyone who uses XP Pro (including hardcore techies) will find this new system much easier-- and more fun--to digest with this new Missing Manual.

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ISBN-10	ISBN-13	Edition	Publisher	Publication d
0596008988	978-0596008987	Second	O'Reilly Media	December 28, :

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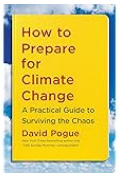

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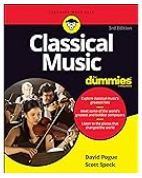

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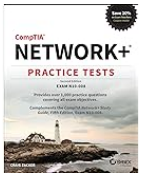

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Editorial Reviews

About the Author

David Pogue, Yale '85, is the weekly personal-technology columnist for the New York Times and an Emmy award-winning tech correspondent for CBS News. His funny tech videos appear weekly on CNBC. And with 3 million books in print, he is also one of the world's bestselling how- to authors. He wrote or co-wrote seven books in the "For Dummies" series (including Macs, Magic, Opera, and Classical Music). In 1999, he launched his own series of amusing, practical, and user-friendly computer books called Missing Manuals, which now includes 100 titles.

Craig Zacker has published numerous books and articles on networking topics and Windows NT.

L.J. Zacker has published numerous books and articles on networking topics.

Product details

Publisher : O'Reilly Media; Second edition (December 28, 2004)
Language : English
Paperback : 704 pages

ISBN-10 : 0596008988
ISBN-13 : 978-0596008987
Item Weight : 2.52 pounds
Dimensions : 7 x 1.39 x 9.19 inches
Best Sellers Rank: #2,574,379 in Books (See Top 100 in Books)
#24 in Windows XP Guides
#362 in Word Processing Books
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Customer Reviews: 4.3 ★★★★☆ 38 ratings

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About the authors

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David Pogue

David Pogue was the New York Times weekly tech columnist from 2000 to 2013. He's a five-time Emmy winner for his stories on "CBS News Sunday Morning," a New York Times bestselling author, a five-time TED speaker, and host of 20 NOVA science

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2 star 4%
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Top reviews

Top reviews from the United States

Donald E. Halley

★★★★★ **R.T.F.M. (an acronym from the past)**

Reviewed in the United States on November 30, 2013

Verified Purchase

Yes, Virginia, computers used to come with operating manuals instead of user agreements and disclaimers. Over time, the power of the web made manuals pretty much a thing of the past, but XP Pro was right at that time before absolutely everything was on the Internet, it came without a useful manual, and hence this book. It was a "missing manual" in that reading it would put you so sleep, but if you were patient, the information was in there. I don't suppose they're selling a whole lot of these today, but I'm submitting this review just to get it off my list of purchases needing review.

Helpful | Report

db

★★★★☆ **as good as an OS manual can be**

Reviewed in the United States on April 25, 2016

Verified Purchase

as good as an OS manual can be. This is probably the last copy to an XP manual to ever be sold. The evil empire's best-ever operating system doesn't seem to work too well on today's equipment.

Helpful | Report

J. Pepoon

★★★★★ **Another Windows "rescue" manual**

Reviewed in the United States on January 14, 2015

Verified Purchase

Another home run from Pogue Press! I kept this along side my computer for clear, expert guidance as I plumbed my way through XP. Thanks to Mr. Pogue the trip went quite smoothly. The company slogag "The book that should have been in the box" really says it all. Thanks for making my introduction to XP such an effortless one devoid of the mystifying terminology and instructions that confuse the newby rather than help.

Helpful | Report

JGK

★★★★★ **Used but Ecellent condition.**

Reviewed in the United States on June 29, 2010

Verified Purchase

The windows XP Pro the Missing Manual came in better than expected condition. Arrived prior to promised date. It looked brand new except for a few sentences highlighted in various parts.
I was very pleased. The book is very informative and worth buying for anyone wanting to master XP. Has real and easy to follow instructions and explanations, not like the Microsoft big manual. Recomend it's purchase.
Thank you Book Jingle.
JKG

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michael m murillo

★★★★☆ **This book is a surprise of information..**

Reviewed in the United States on February 21, 2013

Verified Purchase

This book is a surprise of information.. Pleny of learning here in this one.. Input after input it does not stop anywhere's in learning from this book..

Helpful | Report

Charles B. Silsbee

★★★★★ **Great Book**

Reviewed in the United States on April 15, 2008

Verified Purchase

I got a new computer with Vista. What a mess, never could get anything done with it. Went back to XP and got the book "Windows XP Pro The Missing Manual" This is definately one great book. If you want to learn and know all about Windows XP this is the book. Like the title says it should have been in the box. Maybe some day Microsoft will get with it and include good manuals in there products.

Helpful | Report

B Ardell Young

★★★☆☆ **MISSING MANUAL MISSED**

Reviewed in the United States on August 13, 2004

Verified Purchase

I expected more from this book since the title implies more information that has not been available. I didn't see anything in the book that was new.

It is not a bad manual but there are several books that provide the same information. Perhaps, the problem with the book is the title because it leads one to think it will include more than it actually delivers.

If you do not have a good reference book on Windows XP Professional, you would not go wrong with this book.

13 people found this helpful

Helpful | Report

Old Viking

★★★★★ **Find it fast, right and easy**

Reviewed in the United States on March 9, 2004

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I have bought too many 'helper' books, manuals etc. over the years - and mostly found them cumbersome and hard-to digest. NOT so with the David Pogue & Zacker "Missing Manual". I can relate to several questions that needed explanations - and every time I check them out in this publication - I get the answers that serve my curiosity - and by that, tremendously improve my XP experiences and work. This Manual is for us, who are 'non-geeks' and like to improve our skills. Thank you, guys!

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mary muston

★★★★★ **Windows xp pro**

Reviewed in the United Kingdom on October 10, 2018

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Excellent

Report

Mr Jones

★☆☆☆☆ **Oh dear I got it all wrong**

Reviewed in the United Kingdom on October 23, 2005

Verified Purchase

I thought this book was going to be full of things Microsoft don't tell you such as hints and tips. But no, its stuff they don't tell you because most of it is insanely obvious. Like minimising and maximising or adding a Printer. Microsoft are probably just saving paper by not printing this sort of stuff. If you're a complete newbie to Windows buy it. If you're looking for stuff they don't tell you, like (well I'm not sure now because I didnt find it here!).
This book will NOT make you and XP expert. At best it might save you from embarrasment.

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38 global ratings

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by David Pogue

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3 star 7%

2 star 4%

1 star 4%

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Donald E. Halley

R.T.F.M. (an acronym from the past)

Reviewed in the United States on November 30, 2013

Yes, Virginia, computers used to come with operating manuals instead of user agreements and disclaimers. Over time, the power of the web made manuals pretty much a thing of the past, but XP Pro was right at that time before absolutely everything was on the Internet, it came without a useful manual

Top critical review

Critical reviews ›

B Ardell Young

MISSING MANUAL MISSED

Reviewed in the United States on August 13, 2004

I expected more from this book since the title implies more information that has not been available. I didn't see anything in the book that was new.

It is not a bad manual but there are several

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Greg Blalock

Very good and informative book.

Reviewed in the United States on November 13, 2016

Verified Purchase

Very good and informative book.

Helpful | Report

db

as good as an OS manual can be

Reviewed in the United States on April 25, 2016

Verified Purchase

as good as an OS manual can be. This is probably the last copy to an XP manual to ever be sold. The evil empire's best-ever operating system doesn't seem to work too well on today's equipment.

Helpful | Report

Brooks

★★★★★ **One of the best out there**

Reviewed in the United States on February 13, 2016

Verified Purchase

These manuals are terrific. They are easy to understand, are thorough, and contain many helpful hints.

Helpful | Report

T. Patrick Lowry

★★★★★ **Five Stars**

Reviewed in the United States on March 17, 2015

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The book is in very good shape...feel it to be a real bargain.Thanks,TPL

Helpful | Report

J. Pepoon

★★★★★ **Another Windows "rescue" manual**

Reviewed in the United States on January 14, 2015

Verified Purchase

Another home run from Pogue Press! I kept this along side my computer for clear, expert guidance as I plumbed my way through XP. Thanks to Mr. Pogue the trip went quite smoothly. The company slogag "The book that should have been in the box" really says it all. Thanks for making my introduction to XP such an effortless one devoid of the mystifying terminology and instructions that confuse the newby rather than help.

Helpful | Report

katalaveno33

★★★☆☆ **Not as extensive, well organized nor informative as "WINDOWS ...**

Reviewed in the United States on December 15, 2014

Not as extensive, well organized nor informative as "WINDOWS XP INSIDE AND OUT".
Excessive use of "graphics" to extent of visual bewilderment.

Helpful | Report

Blue Collar

★★★★★ **Five Stars**

Reviewed in the United States on July 28, 2014

Verified Purchase

David Pogue is the best

Helpful | Report

jimmy j. ellis

★★★★☆ **very good**

Reviewed in the United States on May 22, 2014

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I found this manual very useful, it gave a lot of infor, that I needed,that use to be included with xp

Helpful | Report

Donald E. Halley

R.T.F.M. (an acronym from the past)

Reviewed in the United States on November 30, 2013

Verified Purchase

Yes, Virginia, computers used to come with operating manuals instead of user agreements and disclaimers. Over time, the power of the web made manuals pretty much a thing of the past, but XP Pro was right at that time before absolutely everything was on the Internet, it came without a useful manual, and hence this book. It was a "missing manual" in that reading it would put you so sleep, but if you were patient, the information was in there. I don't suppose they're selling a whole lot of these today, but I'm submitting this review just to get it off my list of purchases needing review.

Helpful | Report

Larry Lefavour

This is the best book for windows XP

Reviewed in the United States on August 6, 2013

Verified Purchase

This book is truly the missing manual to windows XP. I'd recommend anyone to get this book to learn about their operating system!

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‹ See all details for Windows XP Pro: The Missing Manual: The Missing Manual

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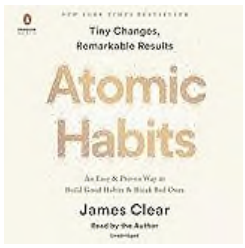

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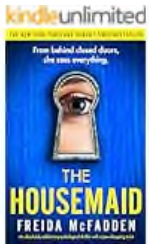

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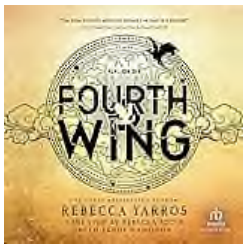

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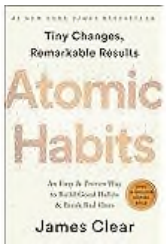

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R.T.F.M. (an acronym from the past)

Reviewed in the United States on November 30, 2013

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Hawkeye45

This book should have stayed missing!

Reviewed in the United States on June 15, 2013

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Not very helpful for someone who has experience working with prior window versions. It's OK but kind of elementary for my taste.

Helpful | Report

michael m murillo

This book is a surprise of information..

Reviewed in the United States on February 21, 2013

Verified Purchase

This book is a surprise of information.. Pleny of learning here in this one.. Input after input it does not stop anywhere's in learning from this book..

Helpful | Report

Joseph

GOOD FOR XP USER

Reviewed in the United States on December 23, 2012

Verified Purchase

needed for school read and used most of the helpful tips inside anyone that still uses XP get this book.

Helpful | Report

JGK

Used but Ecellent condition.

Reviewed in the United States on June 29, 2010

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The windows XP Pro the Missing Manual came in better than expected condition. Arrived prior to promised date. It looked brand new except for a few sentences highlighted in various parts.
I was very pleased. The book is very informative and worth buying for anyone wanting to master XP. Has real and easy to follow instructions and explanations, not like the Microsoft big manual.
Recomend it's purchase.
Thank you Book Jingle.
JKG

One person found this helpful

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Barbara Tegtmann

PC program manual

Reviewed in the United States on February 3, 2010

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The book puts the terms of instruction in a simplified format with side notes that builds better understanding of the situation you are addressing. This is the manual that should be included with the purchase of a new PC with this operating system.

One person found this helpful

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Gail A. Lawton

XP manual

Reviewed in the United States on April 20, 2009

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Excellent, excellent, excellent! I use this constantly. First place I go now for any XP problems/installations. How did I ever manage without it?

Helpful | Report

Charles B. Silsbee

Great Book

Reviewed in the United States on April 15, 2008

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I got a new computer with Vista. What a mess, never could get anything done with it. Went back to XP and got the book "Windows XP Pro The Missing Manual" This is definately one great book. If you want to learn and know all about Windows XP this is the book. Like the title says it should have been in the box. Maybe some day Microsoft will get with it and include good manuals in there products.

Helpful | Report

James Graves

met my expectations

Reviewed in the United States on September 4, 2007

Verified Purchase

Worth the money. For the casual user seeking to become a power user. You can find all this info on the net but not this concise and well laid out. Anything not in this book you can find on the net as well.

Helpful | Report

Robert J. Whitman

Average User

Reviewed in the United States on September 12, 2005

After a few minutes of reading and in front of the PC, I was able to understand many of the new features in XP Pro. This book should have been included with the software. I considered myself as a fairly competent PC user, but the book unlocked all the items that you cannot find using the "Help" function in XP Pro. At least it seems that way to me! I highly recommend this purchase for ALL PC users.

8 people found this helpful

Helpful | Report

John Matlock

He's Right, It Should Have Been In the Box

Reviewed in the United States on January 24, 2005

The title is right! This is the book that should have been included in the basic box with XP Pro. It is set at just the right level for the average user trying to come up to speed on a new operating system. While the basic user interface is more or less the same as the previous windows operating systems, the underlying code structure is based on NT rather than the older DOS/Windows.

This book isn't for system administrators or advanced readers. It's aimed at the average user who wants to master the machine well enough to get down to work or to look up something without having to call for support. It is basically crystal-clear, jargon-free (well, computers are still the subject, how about nearly jargon-free).

This edition is up to date to include Service Pack 2, which changed a number of screens and philosophies in the security area.

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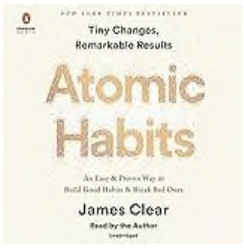

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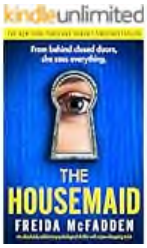

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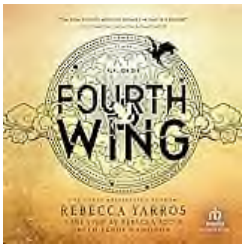

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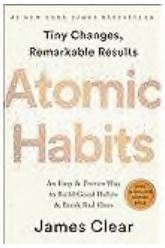

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It is not a bad manual but there are several books that provide the same information. Perhaps, the problem with the book is the title because it leads one to think it will include more than it actually delivers.

If you do not have a good reference book on Windows XP Professional, you would not go wrong with this book.

13 people found this helpful

Helpful | Report

Old Viking

Find it fast, right and easy

Reviewed in the United States on March 9, 2004

Verified Purchase

I have bought too many 'helper' books, manuals etc. over the years - and mostly found them cumbersome and hard-to digest. NOT so with the David Pogue & Zacker "Missing Manual". I can relate to several questions that needed explanations - and every time I check them out in this publication - I get the answers that serve my curiosity - and by that, tremendously improve my XP experiences and work. This Manual is for us, who are 'non-geeks' and like to improve our skills. Thank you, guys!

17 people found this helpful

Helpful | Report

Chris Taylor

Superbly written for non-nerds

Reviewed in the United States on January 20, 2004

This is by far the most understandable XP Pro book I've found. It takes the position that there's nothing wrong with witty, polished prose in technical writing. In fact, the excellence of the writing makes learning far less of a chore than you find in geekier books.
As for the gripes by previous reviewers: Good grief! It says right on the cover that the book "isn't for system administrators or OS theory geeks; it's for the novice or budding power user." It's clearly intended for people new to XP Pro, or even intermediate users who'd like a crystal-clear explanation of, say, understanding how file encryption is different in XP Pro and XP Home, or how to dial into your PC from the road using a laptop, or how to set up a home network, step by step.
(And to whoever wrote that you can find the same information in the online help--get real!! Microsoft's online help for XP Pro is opaque, humorless, loaded with jargon, and free of illustrations. And above all, it NEVER mentions bugs and problems and workarounds, as this book does.)
Bottom line: If you're a network administrator, it's true that you'll be much happier with a much thicker, more technical (and dry-as-dust) book.
But if you're a home user, or maybe you've been issued an XP Pro box at work and you want to get the most out of it, this book presents a complete, entertaining, and easily understood a picture of the beast they call Windows XP Professional. HIGHLY recommended.

95 people found this helpful

Helpful | Report

CeJay

What's really "Missing" is some basic information

Reviewed in the United States on December 4, 2003

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Fortunately I had the "Windows XP Annoyances" manual to thoroughly explain how to use Windows XP's Chkdsk utility. "Chkdsk", or any spelling of it, does not appear in "The Missing Manual" or index as far as I know, but it does in "Windows XP Annoyances". Something as basic and important as "Chkdsk" should not be missing. I wonder how many other entries are non-existent? Having read both manuals, I prefer "Windows XP Annoyances". Pogue's content reads like a rehashed Microsoft Windows XP "Help" tutorial. There's more substance in the other manual.

18 people found this helpful

Helpful | Report

FPL Analysts

Needs more 'missing' information

Reviewed in the United States on July 17, 2003

I have always been a fan of the 'missing manual' and 'nutshell' books. This one is no different, but there is a catch. If you use the XP operating system or are planning on migrating to it or getting a new machine then this book might be for you; the pivotal word being might.
Typically, the 'missing manual' books provide some insight to the respective product by providing useful information that the original manual writer deemed unnecessary or might not have known. The XP Missing Manual does provide a lot of useful information, but I feel that it was a bit too rudimentary. I will agree that O'Reilly has to cater to a wide audience in a given number of pages, but this book was just too simplistic for my liking. Don't get me wrong I will still highly recommend this book, but I don't find myself referring to it as much as I have with previous OS missing manuals.
If you decide to purchase this book I must recommend purchasing the Windows XP Annoyances book along with it. The Annoyances book is more on the level that I felt the XP Missing Manual book should've been. Those two books teamed up make a great reference set for beginners and power users alike.

28 people found this helpful

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Spencer

★★☆☆☆ **Not recommended**

Reviewed in the United States on May 3, 2003

I can't in good conscious recommend this book to anyone. The only thing right about this book is the title AND the manual is still MISSING. Skip this one. Poorly presented, multiple glaring errors. Shame on you David Pogue!!

18 people found this helpful

Helpful | Report

B. Martin

★★★★★ **The combination is.....**

Reviewed in the United States on March 23, 2003

Simply put- BUY THIS BOOK!!!!!
If you own Windows XP Pro*, this manual is a must have, invaluable resource tool.
Easy to read and filled with helpful tips on maximizing the efficiency of your system; Pogue and Zacker got it right!
You'll save yourself so much time on completing your tasks that it'll pay for itself as soon as you get it.
My only question is why didn't we get one of these when we purchaced Windows XP??
*I use it on XP Pro and Home editions

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ak

★★★★★ **If You Really, Really Have To Use Windows XP**

Reviewed in the United States on February 22, 2003

I'm a Mac guy who, through the vicissitudes of life, must occasionally use Windows. There's no better guide than David Pogue whose advice is always accurate, clear, and witty. Best of all, Pogue understands what new users go through. He is simply the best tech writer out there. Buy this book.

3 people found this helpful

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reviewer

★★★★★ **THE FINE MANUAL THAT "MISSED" IN EVERY 'XP' PACKAGE**

Reviewed in the United States on January 19, 2003

The best quality of this book is that it combined the best of everything: it harnessed the best aspects of a step-by-step method with that of a detailed exposure. A welcomed combination! It is a hard-to-resist text if your goal is to conquer "Windows XP Professional" without any skin-pain.
This is one of the few books that presented a well-balanced information: not too much, but never too little. Everything about it is comprehensive. Its authority is unquestionable. Indeed, this is the type of

manual that users would have loved Microsoft to include in their 'XP' package.
Only if Mr Gates would listen to us!

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Amazon Customer

★★★★★ **Always Trust David Pogue**

Reviewed in the United States on January 15, 2003

David Pogue keeps getting better and better. When I first got my computer I was at a loss, then I was given Windows ME: The Missing Manual - A book which kept me from throwing the computer out of the window. A year and a half ago I went to the Microsoft launch of Windows xp and was given Windows xp pro - I immediately installed it and loved it and have been using it ever sense, however there were still some things I didn't know how to do, now I know how to do everything...thanks to David Pogue. He and Microsoft should come to an agreement and put his book into the box of every new computer - Thanks again David for making it easy.

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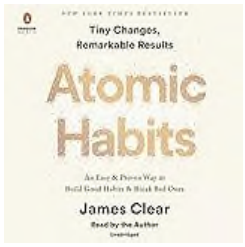

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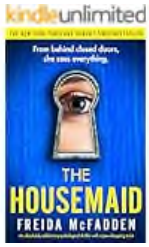

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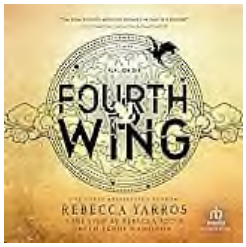

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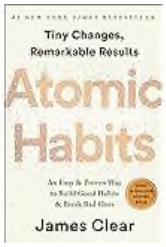

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mary muston

Windows xp pro

Reviewed in the United Kingdom on October 10, 2018

Verified Purchase

Excellent

Report

Mr Jones

Oh dear I got it all wrong

Reviewed in the United Kingdom on October 23, 2005

Verified Purchase

I thought this book was going to be full of things Microsoft don't tell you such as hints and tips. But no, its stuff they don't tell you because most of it is insanely obvious. Like minimising and maximising or adding a Printer. Microsoft are probably just saving paper by not printing this sort of stuff. If you're a complete newbie to Windows buy it. If you're looking for stuff they don't tell you, like (well I'm not sure now because I didnt find it here!).
This book will NOT make you and XP expert. At best it might save you from embarrasment.

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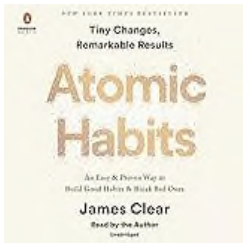

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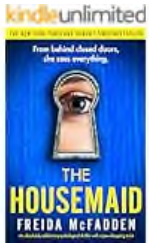

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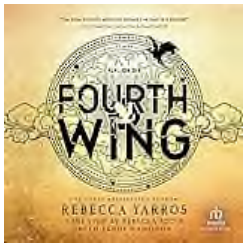

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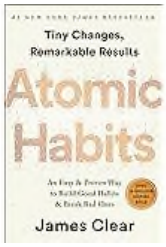

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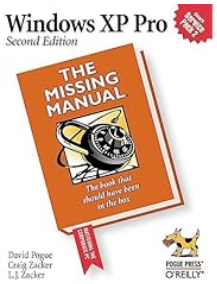

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Editorial Reviews

Book Description

With the release of Windows XP Service Pack 2 (SP2), Microsoft latest and most reliable corporate desktop operating system now provides better protection against viruses, worms, and malicious hackers. SP2 includes Windows Firewall, Pop-up Blocker for Internet Explorer, and the new Windows Security Center. But it still comes without a single page of printed instructions. This superbly written guide fills the gap. Coauthored by David Pogue, *New York Times* technology columnist and Missing Manuals creator, *Windows XP Pro: The Missing Manual* uses wit, technical insight, and scrupulous objectivity to light the way for first-time and intermediate network and standalone PC users. In fact, this jargon-free book explains XP's features so clearly revealing which work well and which don't that it should have been in the box in the first place. The book reveals which features work well and which don't, such as the Remote Desktop software that enables people to connect to the office from home, the encryption file system that protects sensitive information, and the Windows Messenger that enables real-time text, voice and video communication. Contents include:

- **Getting started**. The book's early chapters cover using menus, finding lost files, reducing window clutter, and taming the new, multi-column Start menu.
- **Mastering the network**. Special chapters help you navigate the corporate network, dial in from the road, and even set up your own small-office (peer-to-peer) network, step by step.
- **Understanding security**. User accounts, file encryption, and the NTFS file system keep your private files private, while still offering network access to coworkers you specify.
- **Flying the Net**. This book demystifies Outlook Express 6 for email, Internet Explorer 6 for Web browsing, and the new Windows Messenger for voice, chat, and video conferencing.

Windows XP Pro: The Missing Manual isn't for system administrators or OS theory geeks; it's for the novice or budding power user who wants to master the machine and get down to work. Yet, anyone who uses XP Pro (including hardcore techies) will find this new system much easier-- and more fun--to digest with this new Missing Manual.

Product Details

Paperback: 704 pages
Publisher: Pogue Press; 2 edition (January 1, 2004)
Language: English
ISBN-10: 0596008988
ISBN-13: 978-0596008987
Product Dimensions: 9.2 x 7 x 1.4 inches
Shipping Weight: 2.44 pounds (View shipping rates and policies)
Average Customer Review: ★★★★☆ based on 14 reviews.
Amazon.com Sales Rank: #32,528 in Books (See Top Sellers in Books)
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53 of 54 people found the following review helpful:

★★★★★ **Superbly written for non-nerds**, January 19, 2004
Reviewer: **Chris Taylor** (Portland, OR) - See all my reviews
This is by far the most understandable XP Pro book I've found. It takes the position that there's nothing wrong with witty, polished prose in technical writing. In fact, the excellence of the writing makes learning far less of a chore than you find in geekier books.

As for the gripes by previous reviewers: Good grief! It says right on the cover that the book "isn't for system administrators or OS theory geeks; it's for the novice or budding power user." It's clearly intended for people new to XP Pro, or even intermediate users who'd like a crystal-clear explanation of, say, understanding how file encryption is different in XP Pro and XP Home, or how to dial into your PC from the road using a laptop, or how to set up a home network, step by step.

(And to whoever wrote that you can find the same information in the online help--get real!! Microsoft's online help for XP Pro is opaque, humorless, loaded with jargon, and free of illustrations. And above all, it NEVER mentions bugs and problems and workarounds, as this book does.)

Bottom line: If you're a network administrator, it's true that you'll be much happier with a much thicker, more technical (and dry-as-dust) book.

But if you're a home user, or maybe you've been issued an XP Pro box at work and you want to get the most out of it, this book presents a complete, entertaining, and easily understood a picture of the beast they call Windows XP Professional. HIGHLY recommended.

50 of 55 people found the following review helpful:

★★★★★ **THE FINE MANUAL THAT "MISSED" IN EVERY 'XP' PACKAGE**, January 19, 2003
Reviewer: **reviewer** (Zurich, Switzerland.) - See all my reviews
The best quality of this book is that it combined the best of everything: it harnessed the best aspects of a step-by-step method with that of a detailed exposure. A welcomed combination! It is a hard-to-resist text if your goal is to conquer "Windows XP Professional" without any skin-pain.
This is one of the few books that presented a well-balanced information: not too much, but never too little. Everything about it is comprehensive. Its authority is unquestionable. Indeed, this is the type of manual that users would have loved Microsoft to include in their 'XP' package.
Only if Mr Gates would listen to us!

Customer Reviews

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8 of 12 people found the following review helpful:

★★★★☆ **Average User**, September 12, 2005
Reviewer: **Robert J. Whitman** (Hightstown, NJ USA) - See all my reviews
REAL NAME™
After a few minutes of reading and in front of the PC, I was able to understand many of the new features in XP Pro. This book should have been included with the software. I considered myself as a fairly competent PC user, but the book unlocked all the items that you cannot find using the "Help" function in XP Pro. At least it seems that way to me! I highly recommend this purchase for ALL PC users.

27 of 28 people found the following review helpful:

★★★★★ **He's Right, It Should Have Been In the Box**, January 23, 2005
Reviewer: **John Matlock "Gunny"** (Winnemucca, NV) - See all my reviews
TOP 10 REVIEWER REAL NAME™
The title is right! This is the book that should have been included in the basic box with XP Pro. It is set at just the right level for the average user trying to come up to speed on a new operating system. While the basic user interface is more or less the same as the previous windows operating systems, the underlying code structure is based on NT rather than the older DOS/Windows.

This book isn't for system administrators or advanced readers. It's aimed at the average user who wants to master the machine well enough to get down to work or to look up something without having to call for support. It is basically crystal-clear, jargon-free (well, computers are still the subject, how about nearly jargon-free).

This edition is up to date to include Service Pack 2, which changed a number of screens and philosophies in the security area.

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★★★★☆ **connecting to the Internet**, January 18, 2005
Reviewer: **W Boudville** (US) - See all my reviews
TOP 50 REVIEWER REAL NAME™

The very latest from David Pogue's eponymous publishing house [and O'Reilly]. The book goes into myriad useful tips on best using Microsoft's XP Professional. A very stable operating system, unlike some earlier efforts by Microsoft. Replete with attractive consumer level utilities. The book does go into system type aids, like showing the full power of the start menu, taskbar and control panel. All to the good. But somewhat prosaic.

I suspect what is more germane to most users are things like getting onto the Internet and all that that implies. The authors go into explaining how to get the most out of Internet Explorer. And setting up your email and doing instant messaging. For many of us, browsing and email will take up much of our usage, with chat perhaps a close third. The reality is that the computer's power is often as a connection to the greater world. Which is why though these chapters are only a fraction of the book, you may want to head here first and read slowly. Understanding them may be the most productive part of the book for you.

10 of 25 people found the following review helpful:

★★★☆☆ **MISSING MANUEL MISSED**, August 12, 2004
Reviewer: **B Ardell Young** (Camden, SC United States) - See all my reviews
REAL NAME™

I expected more from this book since the title implies more information that has not been available. I didn't see anything in the book that was new.

It is not a bad manuel but there are several books that provide the same information. Perhaps, the problem with the book is the title because it leads one to think it will include more than it actually delivers.

If you do not have a good reference book on Windows XP Professional, you would not go wrong with this book.

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by David Pogue, L.J. Zacker, Craig Zacker

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Pub Date: **November 2004**
ISBN: **0-596-00898-8**
Pages: **704**
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Overview

Completely refreshed and updated for Windows XP Service Pack 2 (SP2), this bestseller is for the novice or budding power user who wants to master Microsoft's latest operating system and get down to work. This is easily the most accessible and comprehensive book for XP Pro on the market today.

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Editorial Reviews

Book Description
With the release of Windows XP Service Pack 2 (SP2), Microsoft latest and most reliable corporate desktop operating system now provides better protection against viruses, worms, and malicious hackers. SP2 includes Windows Firewall, Pop-up Blocker for Internet Explorer, and the new Windows Security Center. But it still comes without a single page of printed instructions. This superbly written guide fills the gap. Coauthored by David Pogue, *New York Times* technology columnist and Missing Manuals creator, *Windows XP Pro: The Missing Manual* uses wit, technical insight, and scrupulous objectivity to light the way for first-time and intermediate network and standalone PC users. In fact, this jargon-free book explains XP's features so clearly revealing which work well and which don't that it should have been in the box in the first place. The book reveals which features work well and which don't, such as the Remote Desktop software that enables people to connect to the office from home, the encryption file system that protects

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by David Pogue, L.J. Zacker, Craig Zacker

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The $100 laptop moves closer to reality

By Mike Ricciuti
Staff Writer, CNET News.com
Published: September 28, 2005, 8:55 AM PDT

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CAMBRIDGE, Mass.--A low-cost computer for the masses moved one step closer to reality on Wednesday.

Nicholas Negroponte, the co-founder of the Media Lab at the Massachusetts Institute of Technology, detailed specifications for a $100 windup-powered laptop targeted at children in developing nations.

Negroponte, who laid out his original proposal at the World Economic Forum in Davos, Switzerland, in January, said MIT and his nonprofit group, called One Laptop Per Child, is in discussions with five countries--Brazil, China, Thailand, Egypt and South Africa--to distribute up to 15 million test systems to children.

In addition, Massachusetts is working with MIT on a plan to distribute the laptops to schoolchildren, Negroponte said.

"This is the most important thing I have ever done in my life," Negroponte said on Wednesday during a presentation at Technology Review's Emerging Technologies Conference at MIT. "Reception has been incredible. The idea is simple. It's an education project, not a laptop project. If we can make education better--particularly primary and secondary schools--it will be a better world."

He said a goal of the project is to make the low-cost PC idea a grassroots movement that will spread in popularity, like the Linux operating system or the Wikipedia free online encyclopedia. "This is open-source education. It's a big issue."

Negroponte said the idea is that governments will pay roughly $100 for the laptops and will distribute them for free to students.

The proposed design of the machines calls for a 500MHz processor, 1GB of memory and an innovative dual-mode display that can be used in full-color mode, or in a black-and-white sunlight-readable mode. The display makes the laptop "both an electronic book and a laptop," he said.

One display design being considered is a flat, flexible printed display developed at MIT's Media Lab. Negroponte said the technology can be used to produce displays that cost roughly 10 cents per square inch. "The target is $12 for a 12-inch display with near-zero power consumption," he said.

Power for the new systems will be provided through either conventional electric current, batteries or by a windup crank attached to the side of the notebooks, since many countries targeted by the plan do not have power in remote areas, Negroponte said.

The machines, which will run a version of the Linux operating system, will also include other applications, some developed by MIT researchers, as well as country-specific software. "Software has gotten too fat and unreliable, so we started with Linux," he said.

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For connectivity, the systems will be Wi-Fi- and cell phone-enabled, and will include four USB ports, along with built-in "mesh networking," a peer-to-peer concept that allows machines to share a single Internet connection.

"In emerging nations, the issue is not connectivity," Negroponte said. "That was the issue, but there are many people working on it, (thanks to) global competitiveness. But for education, the roadblock is the laptop."

Five companies are working with MIT to develop an initial 5 million to 15 million test units within the year: Google, Advanced Micro Devices, News

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Core, Red Hat and BrightStar, Negroponte said. He said the current plan is to produce 100 million to 150 million units by 2007.

Negroponte's goals are ambitious. Currently, the world production of laptops is just under 50 million, he said.

While the initial goal of the project is to work with governments, Negroponte said MIT is considering licensing the design or giving it to a third-party company to build commercial versions of the PC. "Those might be available for $200, and $20 or $30 will come back to us to make the kids' laptops. We're still working on that," he said.

Others have launched low-cost PC ideas in the past, though MIT's project may be the most ambitious.

Last year, Advanced Micro Devices announced plans for its Personal Internet Connector--a prototype with a price tag of at least $185, with no display. And an Indian company called Novatium said it plans to offer a stripped-down home computer for about $70 or $75.

In addition, Microsoft's antipiracy-minded Steve Ballmer last year called for a move toward the $100 PC for developing nations.

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How About One Loaf Per Child
Chris Sz Oct 3, 2005, 5:10 AM PDT

$100 laptop....
Bill Breen Oct 3, 2005, 4:03 AM PDT

Brilliant
Harrison Smith Oct 2, 2005, 5:47 PM PDT

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ALTRUISTIC IDEA !
Rommel Lina Oct 1, 2005, 6:00 PM PDT

I want a $100 laptop!
Eric Daddy e Oct 1, 2005, 12:33 PM PDT

Replace textbooks with the laptop
Brian Mcclimans Sep 30, 2005, 5:33 PM PDT

This Could Be An Even Better Idea!
Sheldon Britton Sep 30, 2005, 6:37 AM PDT

How about if...
Edmundo Mendiola Sep 30, 2005, 12:56 AM PDT

What about American Kids?
Ian Scrude Sep 29, 2005, 5:57 PM PDT

first rename it the Edu-Tab.
Elvis Sobers Sep 29, 2005, 5:19 PM PDT

They can use Portable DVD player as shell
Shailesh Gala Sep 29, 2005, 12:42 PM PDT

one more thing
John Satchell Sep 29, 2005, 12:09 PM PDT

Hilarious
John Satchell Sep 29, 2005, 12:04 PM PDT

Poor nations children need a school and a teacher first!
Gibson Elliot Sep 29, 2005, 9:18 AM PDT

Even So!
Sheldon Britton Sep 29, 2005, 7:05 AM PDT

That's right, but
Donald Duquet Sep 29, 2005, 6:36 AM PDT

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Amazing ...
Campbell Sep 29, 2005, 6:25 AM PDT
Its Nice.
Hellen Thacker Sep 29, 2005, 8:21 AM PDT

Cooper Union Students
Jesse Dewald Sep 28, 2005, 11:08 PM PDT

Still way too expensive for the billion poorest people in the world.
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Apple steps up iPod 'tax' effort

Sales of devices that connect to the portable music players are reportedly yielding a royalty of about 10 percent.

Photos: Paying to play with the iPod

When your cookie crumbles

Check Point's Dean Ocampo says most people remain unaware of just how vulnerable their Web browsers remain.

Convertible laptops

photos Swivel screens, high-performance features and tablet amenities compete for attention in this lineup of laptops.

Extra: Wikipedia founder admits quality problems

Also: Mars rover bids farewell to Husband Hill.

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1 | 2 | 3 | 4 | 5 | Next>>

MIT's $100 laptop

A research project at the MIT Media Lab has a plan for getting $100 laptops in the hands of millions of people around the world. One notable feature is a hand crank for providing power in places where electricity is undependable or unavailable.

Credit: MIT Media Lab

1 | 2 | 3 | 4 | 5 | Next>>

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Sebastian Tropp Oct 2, 2005, 3:37 AM PDT

Thanks for your input, but...
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Tyn Ong Sep 30, 2005, 5:57 AM PDT

the OS of the computer
Tyler Crocker Sep 30, 2005, 4:55 AM PDT

Ace Idea - When can we order one??
Graham Sivill Sep 30, 2005, 1:55 AM PDT

Sweet
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Cool !
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MIT's $100 laptop

In the design for the laptop, the power pack also functions as a handle. The system is still in the design phase, and a prototype is due Nov. 15, 2005. A preliminary schedule calls for the systems to reach the market by the end of 2006 or early 2007.

Credit: MIT Media Lab

<<Previous | 1 | 2 | 3 | 4 | 5 | Next>>

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WOW

Jasen Jorgensen Sep 29, 2005, 9:45 AM PDT

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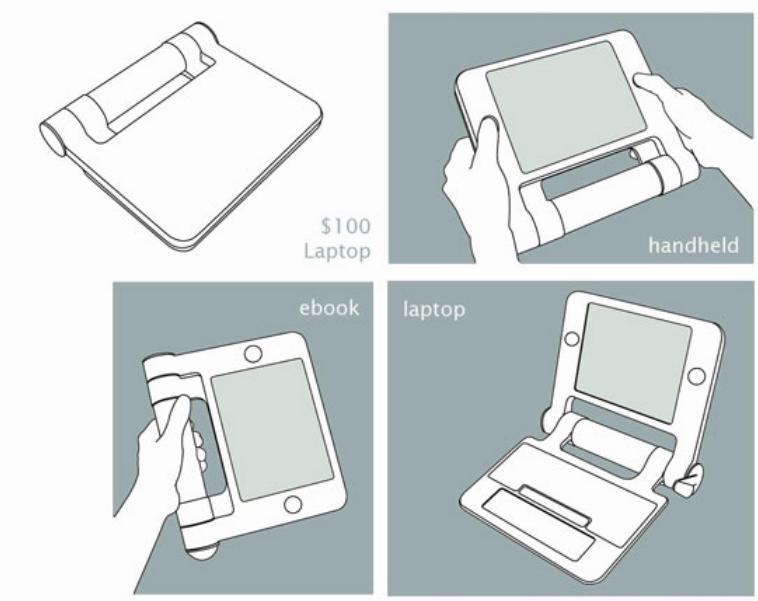
<<Previous | 1 | 2 | 3 | 4 | 5 | Next>>

MIT's $100 laptop

The Media Lab portable is expected to perform several roles, as laptop, handheld and e-book.

Credit: MIT Media Lab



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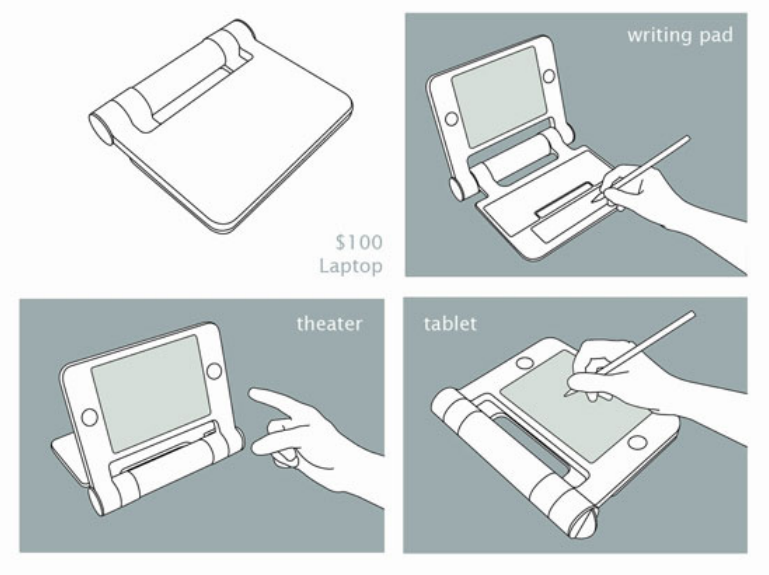
<<Previous | 1 | 2 | 3 | 4 | 5 | Next>>

MIT's $100 laptop

The laptop will prominently feature electronic ink capabilities, in addition to its keyboard functions.

Credit: MIT Media Lab



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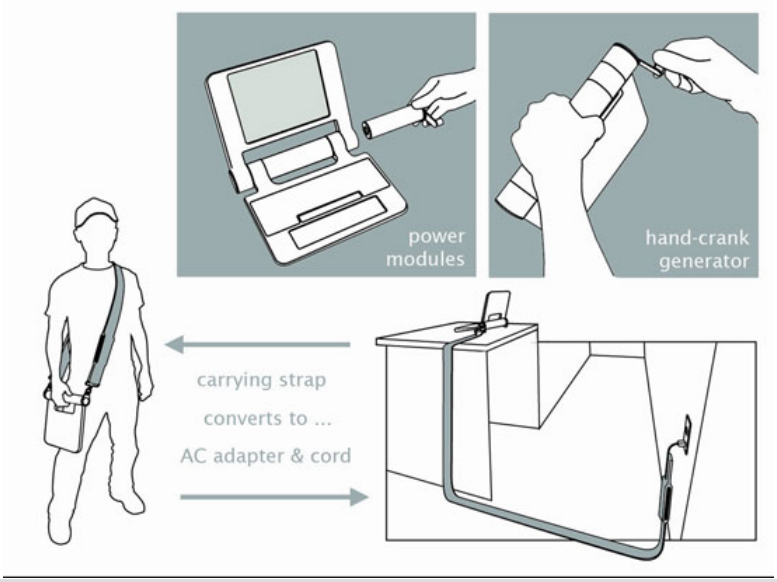
MIT's $100 laptop

Power modules are intended to slide into the thick hinged section of the laptop, and a carry strap doubles as a cord for plugging the system into wall outlets.

Credit: MIT Media Lab



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Andy Rozhylo Sep 30, 2005, 5:14 AM PDT

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Megustan Salchichas Sep 29, 2005, 8:05 PM PDT

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Scott Strang Sep 29, 2005, 4:46 PM PDT

were can i buy this
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great design!!
Rajiv Gunja Sep 28, 2005, 6:41 PM PDT

Worth it tho...
Zz Zz Sep 28, 2005, 5:02 PM PDT

Brilliant :)
Charles Rotunno Sep 28, 2005, 2:03 PM PDT

Fantastic
Kevin Adair Sep 28, 2005, 12:53 PM PDT

You people are nuts
Stan Hoffmueller Sep 28, 2005, 11:47 AM PDT

Sell them in the US for $200
Grant Johnson Sep 28, 2005, 11:04 AM PDT

Much more powerful than I expected
Steveo Sep 28, 2005, 10:34 AM PDT

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- How Fast Does It Run?

And Compares It with

OS/2

WIN 3.1

NT

- Is It More Stable?
- Will It Work With Your System?

HP Inc. - Exhibit 1034 - Page 49

PC MAGAZINE September 26, 1995 Volume 14 Number 16

UP FRONT

Inside
The Windows 95 challenge.....4

Letters
Open your home to a Pentium.....19

Trends
- The Web's financial district
- American-made LCD panels
- All-in-one Internet suites
- Virtual prototyping.....29

First Looks

- WinFax Scanner
- Xres
- Helix Hurricane
- Conversions Plus.....37

New & Improved
BY MELISSA J. PERENSON.....61

Read Only
EDITED BY TIN ALBANO.....69

COLUMNISTS

Michael J. Miller
Windows 95 Is Far from Chicago.....75

Bill Machrone
Disabling Technology.....83
Second Looks.....85

John C. Dvorak
Grandma's Old Computer.....89
Inside Track.....91

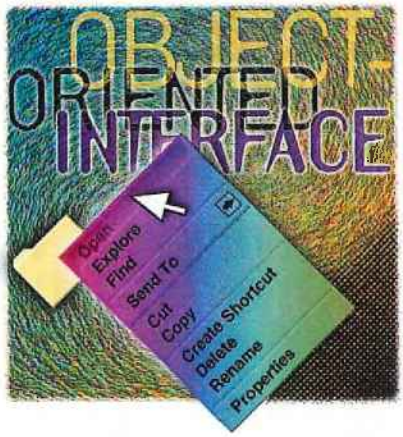
Jim Seymour
ZIP Tricks: First, Find One for Sale.....93

Bill Howard
Winners and Losers in '95.....95

COVER STORY

Your Next OPERATING SYSTEM

BY MICHAEL J. MILLER



At long last, Microsoft has delivered Windows 95. But is it right for you or not? To help you decide, we put the shipping version of Windows 95 through hours of exhaustive testing, measuring its performance, stability, capacity, and compatibility against the dominant operating systems on today's PCs: Microsoft Windows 3.1, Microsoft Windows for Workgroups 3.11, IBM's OS/2 Warp Connect Version 3, and Microsoft Windows NT Workstation 3.51. We also compare their user interfaces, contrast their bundled applications, survey their networking features, and lift the covers of their underlying architectures. An operating-system upgrade is serious business. Here's what you need to know about 32-bit platforms to make the right choice 102

The Big Picture.....108
Architectural Review.....132
Performance Results.....144
Stability & Capacity.....162
Compatibility Compared.....172

Cover image by Jack Harris/Visual Logic

HP Inc. - Exhibit 1034 - Page 50

Your Next OPERATING SYSTEM

By Michael J. Miller

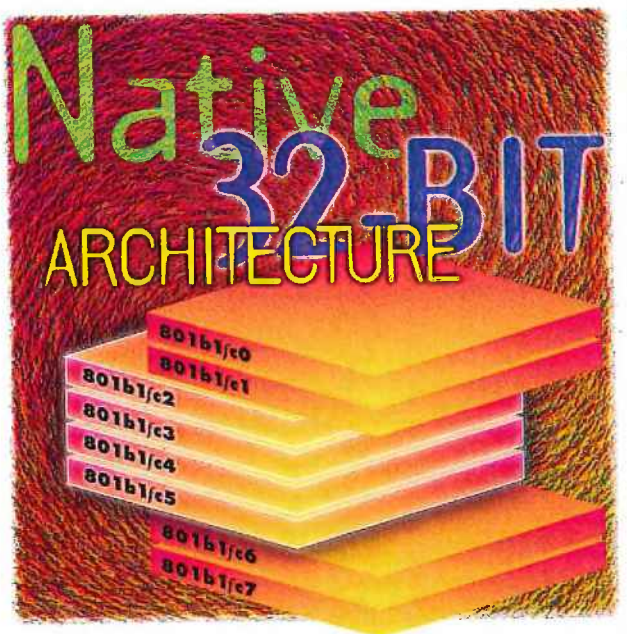
The wait for Windows 95 is over at last. Microsoft has delivered final code for its long-awaited operating system, and now you can get on with the serious business of figuring out whether or not this is the OS you should be running.

To help you decide, PC Labs has put the shipping version of Windows 95 through exhaustive tests, systematically measuring its performance, stability, capacity, and compatibility against the dominant operating systems on today's PCs: Microsoft Windows 3.1, Microsoft Windows for Workgroups 3.11, IBM's OS/2 Warp Connect 3.0, and Microsoft Windows NT Workstation 3.51.

DOS'S DAYS ARE NUMBERED

One thing is clear: Even though the overwhelming majority of *PC Magazine* readers are running Windows 3.1 today, we're firmly convinced that the days of MS-DOS and Windows 3.1 are numbered. The advent of new, more sophisticated operating systems and the market acceptance of fast PCs with ample RAM and hard disk storage at reasonable prices mean that you no longer have to cope with the limitations of DOS and Windows 3.1.

Whatever advanced operating system you'll be



Today's 32-bit operating systems are a logical match for the native 32-bit architectures of advanced microprocessors like the 386, 486, and Pentium. Under a 32-bit OS, programs can manipulate 32-bit chunks of data and address large memory areas in a logical, streamlined manner. Application code can be smaller and, depending on the type of operation it is performing, noticeably faster. A 32-bit architecture is also a big win for programmers, who no longer have to wrestle with the Byzantine complexity of 16-bit segments and offsets.

Windows 3.1's simple *cooperative multitasking* scheme is often everything but cooperative. The three 32-bit contenders poised to succeed it offer *preemptive multitasking*, a far more robust way for the OS to divvy up system resources. The unit that is multitasked is a program *thread*, a fully functional subset of a program. Your apps can have multiple threads performing separate tasks at the same time. The net result is far smoother multitasking, better program response, and less waiting for the hourglass to go away.

Illustration by Jack Harris/Visual Log

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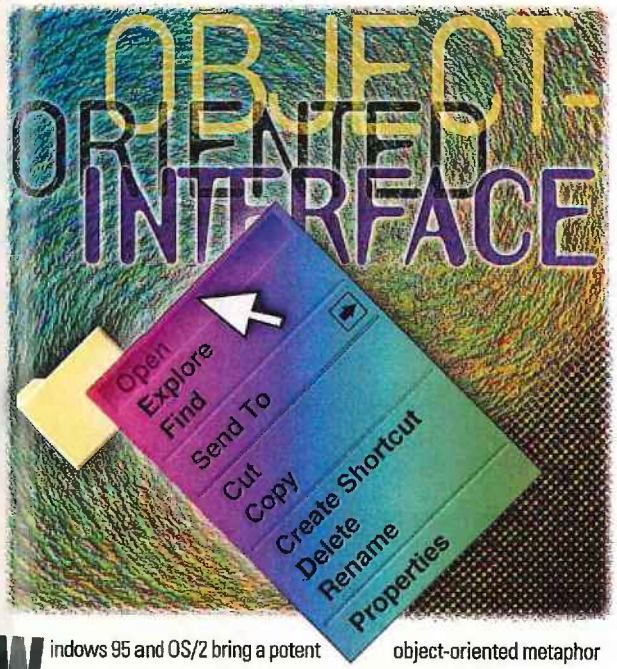
Will Windows 95 be your next OS? What about OS/2 Warp Connect? Or Windows NT? Should you stay with Windows 3.1? It's time for a tough choice.

using in the next few years, many of its characteristics are already clear. All the contenders are, at least in large part, 32-bit designs that support 32-bit applications with far more advanced features than the 16-bit DOS and Windows software we're used to. At the same time, these new OSs can run most of those existing 16-bit applications. All provide more protection for these new applications, so that one errant program won't be as likely to crash the whole system. All offer true multitasking (the ability to run multiple programs at the same time) as well as multithreading (the ability to have a single program do multiple things at the same time). All provide (or, in the case of Windows NT, will soon provide) a new user-friendly interface with object-oriented characteristics. And all offer broad network connectivity out of the box.

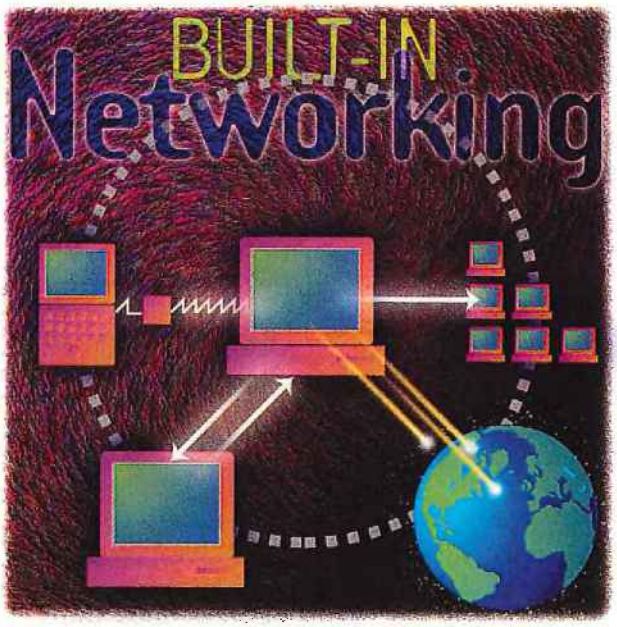
NOISY ARRIVAL

Windows 95 comes into this market surrounded by a glow of novelty, but in many ways, it simply builds upon the features of earlier operating systems. The basic architectural design of a 32-bit, protected, multitasking, multithreaded OS isn't new. OS/2 has been offering these features for years; it was followed by Windows NT, and both were preceded by variants of Unix. The new set of networking features in Windows 95 builds on features offered in Windows for Workgroups 3.11 and Windows NT. Even Windows 95's user interface has precedents: A desktop look with files and folders was popularized by the Macintosh more than ten years ago, and the taskbar follows in the tradition of utilities like Starfish Software's Dashboard and OS/2 Warp's Launch Pad. It's the slick combination of all those features—along with others like the convenient Plug and Play standard—that makes Windows 95 worthy of the attention.

The most important question is one of execution: How well does Windows 95 do in the critical measures of performance, stability, and compatibility compared with its competitors? Are any of the alternatives worth the effort it takes to switch over?



Windows 95 and OS/2 bring a potent object-oriented metaphor to the user interface. Your screen becomes a true desktop, and you can use it to host objects representing programs, files, drives, devices, and directories. An object-oriented shell also has the intelligence to tell you about the objects it contains. Right-clicking on any object brings up a context menu with details on all its properties and all the things you can do to it. Windows NT still uses the old Windows 3.1 interface, but a slick Windows 95–style shell is in the works.



At last, networking has become a standard OS component. When you switch to an advanced OS, you will also be getting connected. Out-of-box support for Novell and other common PC LANs is commonplace, and TCP/IP is fast becoming a standard part of OS bundles. Connectivity features may also include priceless aids for mobile users such as remote dial-up and high-speed cable connections. To hook up to the rest of the world, OS/2 Warp provides a World-Wide Web browser to get you on the Internet; Windows 95 offers a browser in Microsoft Plus!

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In the sections that follow, we answer these questions. We start with an overview of each of the operating systems, summarizing the findings of our recent tests as well as our earlier examination of the features of each environment. (See "Getting Ready for Windows 95," May 16, 1995, which contains more details on each of the operating systems as well as a complete look at their architectures and networking features.) We then go into more detail on the underlying design of each system and follow that with in-depth testing of performance, stability, and compatibility.

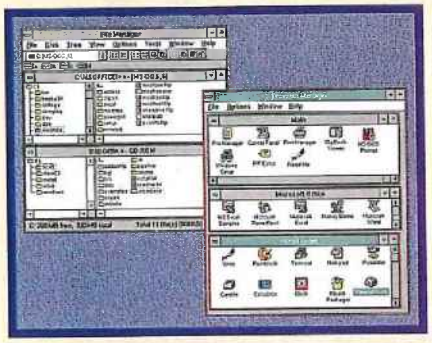
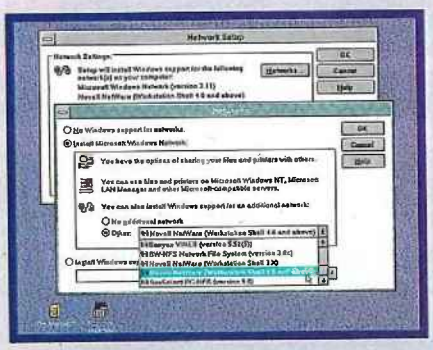
THE BOTTOM LINE

What are you trying to accomplish with your computer? Answer that question, and you'll be well on your way to knowing which OS to use. There is no single "best" OS that's the right choice in all cases. That said, the right OS for you is the one that best runs the applications you want, taking into account its system requirements and your compatibility concerns.

If you have a machine with 4MB of memory that runs well enough for you, and you don't want to upgrade your hardware, stick with DOS and Windows. This setup works pretty well for most people and has an enormous base of software support. While developers are now designing 32-bit applications, the huge installed base of Windows 3.1 and Windows for Workgroups 3.11 assures that you'll have application support for a long time to come.

If you have at least 8MB of memory and an extra 60MB of hard disk space, or are willing to upgrade, then Windows 95 is the compelling choice. It offers all its new features with little upgrade pain. In our tests, it installed relatively easily in most circumstances, did well in compatibility

Features of Your Next OS: *Despite their differences, all the new 32-bit*

	MICROSOFT WINDOWS 3.1 & 3.11		MICROSOFT WINDOWS 95	
USER INTERFACE		▶ Nothing new here. File Manager can't read Program Manager groups, and your groups stay stuck in Program Manager. You can't drag documents or programs to the desktop. There has got to be a better way.		▶ The Windows 95 interface offers a true desktop with icons for programs, documents, directories, and system components. Context menus, accessed by right-clicking, give you the relevant actions and properties for any object.
NETWORKING		▶ Windows 3.1 is mildly network-aware, but Windows for Workgroups actually includes peer-network capability in the box. It also lets you configure Windows with many standard third-party networks such as Novell NetWare.		▶ Windows 95 comes out of the box with a nice suite of popular network protocols and an impressive collection of network adapter card drivers. Utilities like Network Neighborhood make server navigation extremely easy.
COMPATIBILITY		▶ In addition to running its native 16-bit and Win32s applications, Windows 3.1 supports most of your old-standby character-mode DOS applications, which you can run either in a windowed session or full screen.		▶ Compatibility with 16-bit Windows programs is near perfect, and installation is the same for 16-bit and native apps. You can also continue to use your 16-bit device drivers if you need to. DOS programs are well supported, too.

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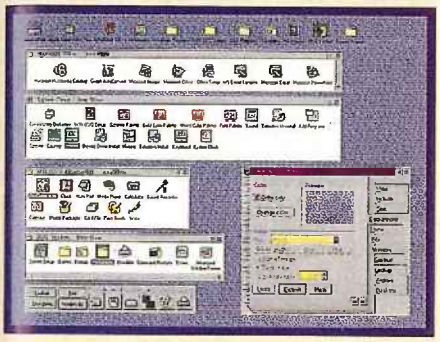
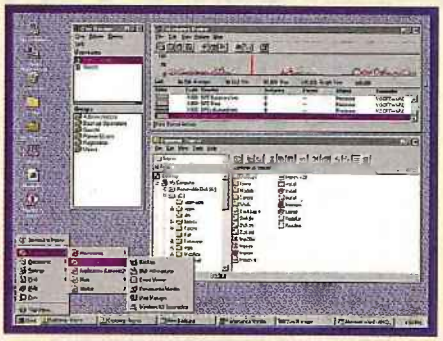
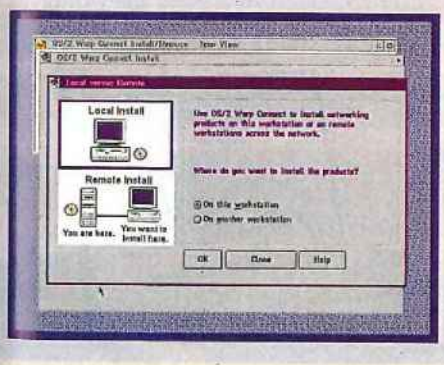
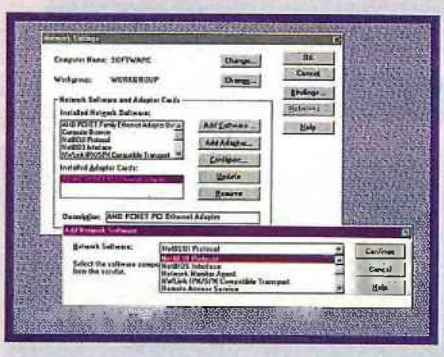
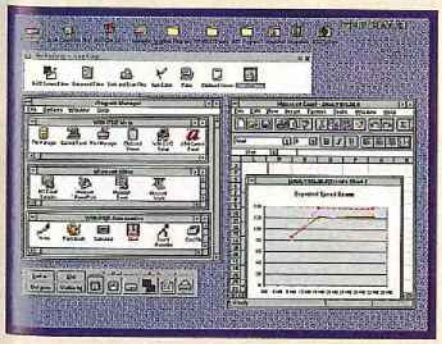
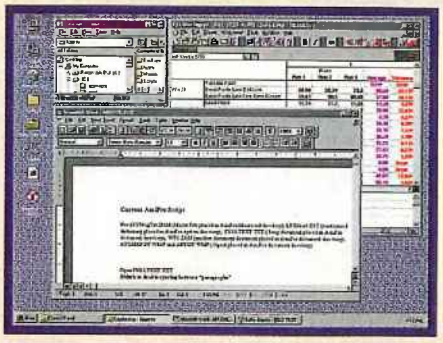
tests, and performed somewhere between Windows 3.1 and Windows for Workgroups 3.11 in many performance tests.

That's not to say that Windows 95 is perfect: It isn't. It makes trade-offs for the sake of backward compatibility and can't offer the level of crash protection offered by OS/2 or Windows NT. Like most new programs, it has a number of small glitches. And the total cost of upgrading is more than just the cost of the software; there are associated costs for hardware upgrades, the time to install, and retraining. Still, you end up with a more stable environment, get a better interface, and have the ability to run new applications while still remaining highly compatible with the old. In short, we find Windows 95 the best choice for most PC users.

If you really want security and protection, and the ability to run most existing Windows programs and new Windows programs under development, then Windows NT should be your choice. It was the most robust operating system we tested, and the fact that its API is almost identical to that of Windows 95 guarantees that many applications will be available for it. The cost, however, is steep. Aside from being the most expensive operating system in this comparison, you'll need a fast machine with at least 16MB of memory to run it.

You'll also give up compatibility with DOS device drivers and applications—including many popular games—that write directly to the hardware. Currently, it offers only an unfinished version of the new user interface introduced in Windows 95, although a final version is scheduled for release by early 1996. Other features such as Plug and Play are further away. Windows NT makes sense for corporations

operating systems are converging on a similar set of features.

IBM OS/2 WARP	MICROSOFT WINDOWS NT
	
▶ OS/2 Warp gives you a rich shell environment complete with folders, icons, right-click-accessible context menus, the LaunchPad, and full drag-and-drop support. In fact, it looks a lot like Windows 95—but OS/2 Warp had it first.	▶ Officially, Windows NT Workstation uses the Windows 3.1 interface. Unofficially, a Windows NT beta of the Windows 95 interface is already being circulated. Microsoft expects to ship the final version by the end of the year.
	
▶ Built-in client networking in OS/2 Warp Connect, which includes a robust TCP/IP stack, a NetWare client, and Internet access, is very complete. But installation can be complex. Be prepared for some tweaking.	▶ Networking is an integral part of Windows NT Workstation. Out of the box, you get Client Service for NetWare, an IPX/SPX-compatible protocol, FTP Server capability, a TCP/IP stack, Remote Access client and server, and more.
	
▶ OS/2 Warp's support for 16-bit Windows apps is impressive. Depending on which version you buy, OS/2 Warp runs them using IBM's WIN-OS/2 libraries or actual code from Windows 3.1. It can't run real-mode device drivers.	▶ Windows NT Workstation runs most 16-bit Windows apps, but it won't run real-mode device drivers. Native Windows NT applications have been scarce up till now, but many upcoming Windows 95 apps will be Windows NT–certified.

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developing mission-critical applications, but while it may be the operating system of the future, it doesn't yet appeal to the average individual user.

OS/2 Warp Connect 3.0 stakes out a middle ground. It's the right environment if you want somewhat more protection than Windows 95 but don't need the protection or have the system requirements for Windows NT. It does a very reasonable job of running existing Windows applications, although it's somewhat slower than Windows 3.1 or Windows 95.

It remains to be seen whether IBM can convince software vendors to adapt their 32-bit titles for OS/2 Warp or create significant new applications for the platform. Installation and hardware compatibility, while improving, still are problematic. OS/2 Warp Connect 3.0's built-in applications and broad networking support make it a good step up for businesses that currently run OS/2 applications. In addition, OS/2 Warp is likely to satisfy those who want to run a non-Microsoft environment on *x*86-compatible hardware, whether because they don't like Microsoft, are concerned about its increasing dominance in PC software, or just want an alternative.

For most people, the choice will come down to staying with Windows or upgrading to Windows 95. Given the support for Windows 95 among both hardware and software developers, it seems quite likely that Windows 95 will become the dominant PC OS over the next 12 months.

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Your Next OS

The Big Picture

Windows is showing its age and three competitors are poised to take its place. Compare their strengths, features, and vulnerabilities.

By Michael J. Miller

SINCE ITS INTRODUCTION FOUR YEARS AGO, Windows 3.1 has become the de facto operating system standard in the PC industry. Windows 3.1 or Windows for Workgroups 3.11 come preinstalled on over 80 percent of new PCs, and Windows applications account for over 60 percent of all PC software sold. Still, given that Intel introduced the 32-bit i386 microprocessor ten years ago, 16-bit Windows is definitely showing its age.

Windows 3.1 stands on the architectural foundations of Windows 3.0, which was introduced in 1990. It loads on top of DOS, which provides many basic OS services. On top of the DOS infrastructure, Windows adds a graphical operating environment and features like the simple cooperative multitasking scheme it uses to run multiple Windows and DOS applications.

The Windows architecture puts all applications and system code into a single address space. This means that a misbehaving application can scribble on the memory being used by the operating environment itself or by another application. The result is the dreaded General Protection Fault. Sometimes Windows recovers gracefully; most times it can't.

Windows 3.*x* is inherently a 16-bit operating system, so programs address memory in 64K segments and manipulate data in 16-bit chunks. Aside from driving programmers to distraction, this system can be less efficient than 32-bit addressing when large amounts of data are involved. Limits to system resources are another consequence of a 16-bit foundation. Windows 3.*x* offers limited storage space for structures such as application file handles. When these small memory areas fill up, Windows can't load new apps, even when there's plenty of free memory left.

The Windows user interface, based on Program Manager and File Manager, is familiar to most PC users. The environment includes a Control Panel for managing the environment and a series of small applications, including Notepad, Write, Paint, Terminal, and the ever-popular Minesweeper and Solitaire games.

Windows for Workgroups added a group of network features. The most prominent was peer-to-peer networking, which lets you share a drive or directory with other users, either using Windows' built-in networking features or over a larger server-based network, such as Novell's NetWare or Windows NT.

In addition, Windows for Workgroups added a client for Microsoft Mail and for Schedule +, Microsoft's e-mail and sched-

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