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10 Steps to Safe Computing

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Unfortunately you must be proactive to protect yourself from today's bad guys. Here is my down and dirty list for PC users.

they are discovered. Companies like Microsoft, Apple, and others find a way to plug the whole and issue an update. If you wait a week or two to install the updates, you are giving the hackers and spammers time to attack your computer.

1. Install a good anti-virus program and make sure that it is updated regularly. While most of today's programs update automatically, you should check occasionally to make sure they are working properly.
2. Don't open email attachments even if they are from someone you know. Open only if you are expecting them, you know the person sending them, and you know what the attachments contain.
3. Don't fall for phishing schemes or other email where they try to get you to confirm or retype your personal information.
4. Update your operating system regularly. In Windows and Mac OS X you can turn on automatic updates, but you also need to download and install the updates as soon as possible. Often the bad guys take advantage of new operating system holes as soon as

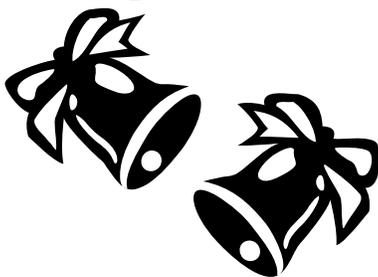
5. Be careful about the websites you visit. Don't visit porn sites or other suspicious websites. Don't download software from any website unless you are sure it is safe.

6. Use a firewall. As I stated in a previous column, a hardware router is a very good unobtrusive firewall. If you don't have a router, turn on the firewall that comes with Windows. The Vista firewall is pretty good, and the XP firewall is better than nothing. If you are an expert user, you can use a software firewall like Zone Alarm, but for the uninitiated user, these complex software firewalls can be difficult to use.

7. If you are using Vista or Mac OSX, or even Linux you should create an account for daily use that does not have administrative rights. That way, if a piece of malware gets into your system during an average computing session, it will have restricted rights. Using an account with administrative rights gives the malware

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Advanced WindowsCare Personal Edition — Freeware

By Ira Wilsker

Websites

<http://www.iobit.com>
<http://www.iobit.com/advancedwindowscareper.html>

A lot can go wrong with the software and operating systems on our computer. Just like a car, if maintenance is ignored or infrequently performed on Windows, problems can occur that can impair the execution of software on our computers. To help us perform the software maintenance on our computers, a small software company IOBIT has released a free version of its Windows repair utility, Advanced WindowsCare Personal Edition. For those concerned about the safety and security of free software, this product is free of any spyware or adware.

Available for free download from the publisher's site, www.iobit.com, or the alternative popular mega sites including download.com, and tucows.com, Advanced WindowsCare Personal Edition is a comprehensive suite of utilities that can identify and repair many of the common system problems that plague Windows users. Advanced WindowsCare will run on Windows 2000, XP, and Vista. For those who may desire an even more powerful and sophisticated suite, IOBIT also has an upgrade available, Advanced WindowsCare Professional, which sells for \$29.95 (15 day free trial available). The free Personal Edition has been very successful, with over four million downloads, including over two million from download.com alone. C-Net, the owner of download.com, calls this software, the "#1 most popular system utility in download.com", where it has received a five star rating. Tucows has given this software a "five cows" rating, while ZD Net has awarded it five stars, as well as given it its coveted "Editors' Pick" award. Softpedia, another well



known resource, rates Advanced WindowsCare Personal "Very Good", and gives it a four star rating. Obviously, this appears to be some good software that can make a valuable addition to anyone's software collection.

Advanced WindowsCare Personal Edition is very easy to use, and offers a "1 click" option where all of the major utilities are automatically run, which subsequently gives a detailed report to the user, and offers the options to either automatically or selectively repair any problems found. Personal Edition is also very fast, with most scans being completed in about one minute.

One useful feature of this software is a spyware scan that searches the computer for spyware and adware, using periodically updated signature files. Any such malware that is found can be selectively deleted by the software. For users concerned with privacy, the software can also erase all history files on the hard drive.

The registry is a complex database containing information on all of the software and hardware installed in the computer. Often the registry becomes bloated with obsolete information, and corrupted data, which can create a serious performance drag on the computer. Good PC hygiene dictates that the registry should be periodically scanned for errors and cleaned, and this software does an excellent job of this. One nice feature is the ability to recover any changes made with an integral restore feature. As a demonstration of its capabilities, as a test, I purposely ran other registry cleaning and repair utilities prior to running this one. As an extra precaution, I used my Windows system restore feature to back up my critical files prior to the test. I ran three of the other registry repair utilities, and dozens of registry defects were identified and repaired; I then ran Advanced WindowsCare Personal Edition, and hundreds of additional registry errors were found and repaired, that the other programs missed. There was no need to restore my files, because the system ran very well after the serial repair. This software is capable by itself to repair the registry, and the other registry repair utilities are no longer needed; this software did it all.

Our hard drives become cluttered with a variety of junk files, such as obsolete cache and temporary files. These useless files may waste countless megabytes on our drives, and slow down the ability of the hard drive to find data. If useless data is

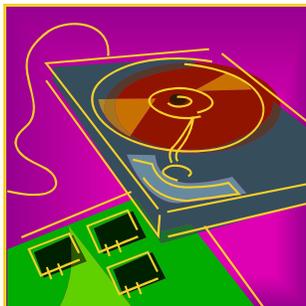
deleted from the hard drives, computer performance can be enhanced. Advanced WindowsCare Personal Edition contains a very efficient junk file removing utility. As a matter of personal choice, I prefer to look over the list of files found and decide which to delete, but it is fairly safe to delete what the software finds. As a matter of practice, after useless files are deleted, it would be a good idea to run Windows integral defragmentation utility, or a third party disk defragmentation utility, to further improve hard drive performance.

Another feature built into the software gauges Windows and internet performance, and offers options to improve the speed of the system. This helps give us the performance that we paid for when we originally purchased our systems, and helps to maximize our internet throughput.

As our computers age, we are often plagued with slow startup and shutdown problems. This occurs because as we install software on our computers, many of the programs place items in the system startup by default, which forces the software to load when the computer is booted; more items in the startup means slower and longer boot times. Advanced WindowsCare Personal Edition contains a powerful but simple startup manager which displays the contents of our startup, and allows for the easy management and control of what loads when we boot. Fewer items loaded at boot means that our computer comes up faster, and runs faster because there is less demand on system resources. Because there are fewer items running, shut downs are also faster.

I have used this software for about a month and found it very useful and reliable, and can recommend it to all PC users with Windows 2000, XP, or Vista.

One of the most frequent questions asked on my weekly radio show on KLVI is how to improve computer performance and speed. Advanced WindowsCare Personal Edition is a valuable free tool that does much to improve performance, clean up the registry and startup, delete useless files, and otherwise provide benefits to the user. ■



This and That

**By Elizabeth B. Wright, a member of the Computer Club of Oklahoma City
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Have you accessed the WindowsXP “Restore” option to reset your computer to an earlier time? We often need to do this when things go haywire after installing some new software. Fiddling around with old programs or offbeat wares can sometimes land you in hot water operating wise. I found myself in just such a mess not long ago. Fortunately I had made a restore point prior to installing the renegade software, so I was able to use it to get things back to normal. Well, almost.

What Happened Next

One of my oldest and most valued programs is CorelPaint. Suddenly, after going through the restore procedure, I began getting an error message plus having the program refuse to open when I double clicked on the desktop shortcut icon. This applied to Corel-Draw as well. The error message said something about trying to install the program, then it would go through some strange digital machinations before rolling everything back and giving up. Strangely enough though, if I double clicked on a .jpg or .tif file in Explorer, the files would open the program with no difficulty. Several days were spent opening graphic files in this manner when it suddenly dawned on me that perhaps the programs might open from the executable files directly. Sure enough, when I went to them, again in Explorer, they both opened like clockwork. So why did it take me several more days to figure out that the icons on my desktop had some way become corrupted? I don't want to know the answer to that one.

Anyway, after deleting the icons, new ones were put in place by right clicking on the executable files in Explorer and double clicking the “Send to desktop” option from the menu. Usually the names given icons made in this way are not the best, so they usually get changed to something more useful on my computer. Often part of the name is “shortcut”. Who needs that?

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Book Review

Computer Privacy Annoyances — Your Personal and Online Privacy By Dan Tynan

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Dan Tynan starts off with a couple of personal revelations, such as how he got to be writing this book and how much of himself he'll share. He also notes his discovery that "...privacy is, well, personal. Everyone has an individual definition of what's an acceptable level of privacy and when that limit has been exceeded." For example, his wife loves receiving the catalog offers that he loathes. As a result, he reports a variety of ways to address most privacy annoyances and potential problems.

Though just this side of full-blown paranoia most of the time, Tynan does distinguish levels of vulnerability and sensible precaution. Is it clear that your online banking needs better password protection and encryption than your records of your kids' Little League schedules? He didn't say it out loud, but his cautions frequently reminded me that way back when a computer took up a good-sized storeroom and needed a dedicated air conditioning system, we had a saying: "Just because you're paranoid doesn't mean they aren't after you." But now the ageist cry has turned around to "Never trust anyone under 30."

Annoyances has explanations replete with screen shots. Unfortunately, a lot of the screen shots are too small to be completely readable. This might be OK for a graphic whose purpose is to give a general idea of the configuration of the desktop at a given point. However it's a major annoyance when an essential detail is obscured in the screen shot. Exactly which one is the radio button I'm supposed to pick in order to make my life safe and secure without limiting my freedom or spending all my waking hours covering my tracks? And what are you hiding in that black-on-gray fine print? Something else I'd like to see in the next edition are page references when another section is discussed. In this edition, Tynan rarely tells me where to look when he refers to a Table, Chart, Figure, Tip, or Sidebar. Is it coming right up? Is it two pages back, or in the last chapter?

Given the publishing cycle, a book on any technology topic has to be out of date by the time Amazon gets it. However, this nearly-three-year-old edition of Annoy-

ances agrees surprisingly well with the October 2006 issue of Consumer Reports (pp. 41-45).

Of course, Tynan goes into much greater detail. He includes phone numbers and internet addresses for following up, checking for various potential problems and security leaks and for plugging them where possible. He subdivides privacy concerns into the areas of life where they occur: at home, at work, on the Net, in public, with governments mostly Federal, though he has some discussion of interesting state variability in managing citizen privacy and security. Moving the data in all these areas to computer databases has enabled access by almost anyone; the ease with which databases can be combined means that information that formerly sat in isolated dusty drawers and files can now be linked and massaged to easily relieve the typical citizen of her rights, reputation, and/or cash. The "Privacy in the Future" section discusses implications of current trends, precautions that could be taken to prevent further erosion of privacy and to limit unauthorized access and potentially harmful use of one's data.

This could be an intense, dense technical tome. Instead, varying from straight exposition to sidebar to tip and including many tables and charts helps make it comprehensible. Tynan's conversational style adds to the readability, though a couple of times, his vernacular sent me scrambling for the dictionary. There have been some changes in focus since Tynan wrote: renewal of the Homeland Security Act was just gearing up as he wrote and college campuses were trying to figure out how to cope with the original Napster. On the other hand, RFIDs (Radio Frequency ID chips) were just moving into the public consciousness beyond a way of identifying a lost pet and potential abuses of medical and genetic records were becoming apparent. His information is still surprisingly current, given the annoying speed of change in areas computer-related. I had intended to read Computer Privacy Annoyances and then pass it on. Given the amount of useful information and the number of useful web addresses and telephone numbers, I'm going to hang on to it for a while.

While details change, and specific companies and scams come and go, computer safety has to be added to crossing the street in the instructions for growing up in the 21st Century. Computer Privacy Annoyances provides a sound set of guidelines for protecting your identity (or rescuing it if stolen); fighting back against aggressive marketers; stopping (or at least slowing) spam, viruses, adware, spyware and other invasions; avoiding cyber-stalking; shopping safely; protecting your home network; coping with work-place monitoring of surfing and information and the number of useful web addresses and telephone numbers, I'm going to hang on to it for a while.

In summary, computers being a powerful tool, they can be used for good or ill. Just as truck drivers need more training than the drivers of passenger cars, we as users need training in how to manage computer email or our own benefit. While details change, and specific companies and scams come and go, computer safety has to be added to crossing the street in the instructions for growing up in the 21st Century. Computer Privacy Annoyances provides a sound set of guidelines for protecting your identify (or rescuing it if stolen); fighting back against aggressive marketers; stopping (or at least slowing) spam, viruses, adware, spyware and other invasions; avoiding cyber-stalking; shopping safely; protecting your home network; coping with work-place monitoring of surfing and email; and telling those folks who are profiting from use of your personal data to cease and desists. Just gathering all the resources to address these issues is (was for Dan Tynan) a major project. Make use of his work: go forth and protect yourself without hiding from all public contact and unplugging totally.

Product Information

Computer Privacy Annoyances — How to Avoid the Most Annoying Invasions of Your Personal and Online Privacy, by Dan Tynan [2005]

O'Reilly Media, Inc., Distributor
800-998-9938 www.oreilly.com
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administrative rights as well. While this is also a good practice with Windows XP, most users, including myself, find that because of the way XP is engineered, it is almost impossible to perform average tasks unless you are logged on as an administrator. Fortunately, with the Vista operating system, you can easily perform day-to-day operations when logged in as a non-Administrator.

8. Even with good habits, it can be useful to occasionally run a good anti-spyware program to scan and remove spyware from your computer.
9. Shop at Secure Sites. If you shop on the Internet, enter your personal information and credit card number only on a secure Web page. If you use Internet Explorer, a secure site will show a yellow padlock in a closed position on the toolbar at the bottom left-hand side of the screen. Netscape will show a closed darker colored padlock somewhere on the bottom toolbar. In both browsers, a secure site will have https: rather than http: in the Web site address at the top of the page.
10. Don't give your Social Security number out on the Internet. Identity theft is one of the fastest growing crimes because computers and the Internet make stealing an identity from an unsuspecting victim easy. So don't be an unsuspecting victim! Your social security number is the golden key to your identity. Never keep your social security number anywhere in your computer. Never give it out over the Internet, even in a secure site. Some sites, like online banking, may require you to use your social security number as a password. Take a pass on any such site or service that makes you send your social security number over the Internet. Keep your identity secure by keeping your social security number as private as possible.

One more thing— don't buy anything from spam or unsolicited email. While this won't keep your computer any safer, it might help to lessen or eliminate spam. If no one bought anything from spam, it would take away the financial incentive to send spam and it would probably disappear.

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Internet Connections

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(This is part of a series of articles providing a brief explanation of the Internet. The previous article provided an overview and mentioned that there are separate issues of connections, addressing of messages, and available services.)

The method of connection into the Internet varies somewhat among users. At various points, telephone lines, coaxial cables, UHF relays, satellite shots, and a few other methods might be utilized to make the actual connections. It is even possible to bring a lap top computer into a coffee house and reach an internet connection starting with a radio link.

Typically a home or small office user will connect through a company known as an Internet Service Provider or ISP. These could be small local companies or giants, such as AOL, Earthlink, and AT&T-Yahoo. A large company establishes local routing centers known as Points of Presence or POPs to allow for local calls into the system. Small ISPs have local numbers but might also use POPs if covering an area of more than just a few miles. A large ISP might have over 2,000 POPs.

POPs have some equipment that receives the connection from the individual user and routes it to the server, a powerful dedicated computer, at the actual ISP location. The ISP then routes the message toward where it supposed to go, probably eventually through another ISP and POP. Trunk lines owned by a few major long distance telephone service providers are used to send messages across country in this process.

There are also sites known as redirection services. In some ways, they can be used to hide where a message is coming from and going to, but do have other purposes. For example, one can frequently change ISPs based on availability in local areas and price, but keep a constant address with a redirection service. These services might also provide things like a personal web site, useful software, and online storage.

I live in Chicago, Illinois and use a redirection service in California. My ISP also is in California.

If I receive a message, it is somehow sent to the redirection service in California; it then goes through my ISP; then to a POP somewhere in Chicago; then through my telephone switch center about three or four miles from where I live; and eventually to my computer.

The person sending me the message might live nearby, but use a different ISP. While the telephone switching center might be the same, the POP and ISP locations would be different. Another major ISP is located in Minnesota. Different trunk line connections would be used to send the message there and then over to by redirection service in California.

A small ISP might go directly into the trunk lines or work through a larger wholesale ISP. Various capacity heavy duty lines go to the ISPs which break down the capacity for individual users. The smallest of these heavy lines is known as a T1 and could be sufficient for a small ISP. A larger ISP or a POP for a major ISP might use a T3 line. Single user service over a T3 line would make normal broadband service look extremely slow, but costs thousands of dollars per month.

All of these connections take place in seconds.

Government entities, schools, large businesses, and some others might connect in to the Internet in other ways. A unit of government might have a connection to the Internet through a major ISP or might connect more directly into the trunk lines.

In Illinois, all Internet service for agencies under the governor is supposed to go through a Department of Central Management Services. A worker in Chicago searching for something at another site in Chicago would have to go through Springfield. The central agency probably connects to the trunk lines. The cen-



tral agency for a state that centralizes its computer operations, as does Illinois, might be a computer operations agency or the state library.

Even municipalities might go through a state service. For example, to get to the Brooklyn Museum site at one time, one had to go through a single site that served the entire State of New York. I tried this once from a Chicago Public Library public computer and received the message that the New York state computer was down; I then had to go the old fashioned encyclopedia that was on a shelf about 10 feet away to learn what I wanted.

Firewalls are used to protect data inside a network from outside tampering or prying. They can also be used to control what gets out. Firewalls can be set up at various levels to control access. In the other direction, if I send a message about something to one of my doctors, it will reach them among other messages on their hospital computers; but I cannot get in to see confidential information. One of the hospital systems, VA, can retrieve medical records across country, but no one else can get in. The other can exchange records among three hospitals and numerous scattered clinic sites.

Schools often act as small to moderate size ISPs. Faculty, staff, and students usually have internet privileges through the school. The schools might connect directly through the trunk, a large ISP, a state service, or another school. The main state university might serve as a central point for other schools in the state and have a direct connection to the trunk. ■

(Other articles to in this series [printed in the May and August 2007 NCTCUG Journal] are concerned with Internet addressing, or how the system knows where to send things, and the services, such as e-mail, that are available.)

Hilton Kaufman serves as the technical support person for the procedures writing unit of an Illinois state agency, where higher level technical support personnel are concerned with the details of Internet connections and services. As such, he uses the software provided to him to create forms, convert documents into PDFs, advise members of his unit as to how to use the available software, and similar tasks. For his home computer, he can go all out and get a powerful machine that allows him to do things like playing games and surf the web without getting in trouble. He has prepared a number of articles aimed at novice users on the basics of standard computer programs.

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Portable Data

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Which of the following is an item for storing computer data?

- A) Thumb Drive
- B) Jump Drive
- C) Flash Drive
- D) Key Drive
- D) Memory Stick
- E) USB Stick
- F) UFD
- G) All of the above

If you guessed "G," good for you. All of the above names refer to UFDs or "USB Flash Drives." USB, of course, refers to those little rectangular ports you can find (although there never seems to be enough of them) on the back and front of most computers.

So what is a UFD? You see them connected to people's key chains, hanging around necks on a cord and stuck in pockets and purses! Simply put, a UFD is a really convenient data storage device. Think of a one-gigabyte UFD as being 694 floppy disks all packed into a two-inch long by ½-inch wide package.

UFDs are data storage devices that have replaced CDs, floppies and other methods of carrying data from computer to computer. Plug one into a USB port on any computer, and you can read and write files on it. It is now the method of choice for transporting data that you need often.

In fact, there is a special class of UFDs called U3 that can also store applications. Plug one of these UFDs into a computer, and you can run Mozilla Firefox, Open Office, or even utilize an operating system such Linux.

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Improve Computing Pleasure — Free Widgets for Windows and Mac

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Websites

<http://widgets.yahoo.com>
<http://widgets.yahoo.com/gallery>

Many of us are extremely busy, and often lack the time to search the internet for items of frequent interest. Many of us have dull and boring desktops displayed on our monitors, often using the default images of our computer or software maker. Fortunately for us, there is a free service offered by Yahoo!, called “widgets”.

Widgets, also known as “gadgets” by some web services, are small programs that display a wide variety of information on the otherwise wasted space on our desktops. This information is automatically updated on a frequent basis, providing the user with current data without loading another program or browsing to a website, as widgets are displayed on the desktop on a full time basis.

Widgets is the name for the products distributed by Yahoo!, and gadgets are distributed by other web service providers. While similar in appearance and function, widgets and gadgets are generally not interchangeable, and in order to conserve system resources, users should choose gadgets or widgets, but not both.

Yahoo!'s widgets can be found at widgets.yahoo.com. Upon opening that page, the user is greeted with a button to download the widget engine, which includes about a dozen popular widgets, including a picture frame (displays digital photos on desktop), weather

display, notepad, daily planner, maps, stock ticker, and others. The opacity of widgets can be controlled to make them nearly opaque, hiding the desktop behind the widget, to almost totally transparent, fully displaying the desktop. Widgets can be dragged and dropped anywhere on the screen. I have a lot of icons on my desktop, and my widgets cover several of the icons, but this is not a problem as I drag the widget out of the way whenever I want to access those previously covered icons.

The widget engine works on Windows XP with service pack 2, Windows 2000 with service pack 4, Vista, or Macs with OS X 10.3.9 or higher. An internet connection is necessary in order to update the widgets, and 512 megabytes (minimum) ram is recommended for improved performance.

Among the default widgets included with the widget engine, I personally have the stock ticker and weather widgets loaded and running, and also have a TV widget which displays the shows for the next few hours on the channels of my choice.

The stock ticker widget is very easy to use, and is automatically updated every few minutes. The default listings are for popular quotes, such as the Dow Jones Industrial Averages, NASDAQ, Yahoo!, and similar issues. It is very simple to modify the listing to show any desired quotes and indices, and the number of issues displayed is only limited by the space available on the desktop.

The weather widget is customizable for any city or zip code, and graphically displays the weather for



five days, current conditions, temperature, and moon phases. By moving the cursor over the weather widget (sometimes it also requires a mouse click), a balloon opens which displays the humidity, barometric pressure, wind chill or heat index, wind direction and speed, and the time of most recent update.

The widget I seem to refer to the most is the TV widget called "TV Tracker", which can be downloaded from the Widget Gallery. Once downloaded and installed, a city and zip code is selected, which displays the on-air, cable, and satellite options and carriers locally available. Selecting the appropriate carrier displays a two hour grid of what is on television. Different genres, such as sports and movies are highlighted in different colors for easy viewing. Clicking on a highlighted title will "fetch" the description and details of the movie or sports event, displaying it in a sub-widget adjacent to the primary widget. I will be honest and say that there are several cable channels available to me that I simply never watch, and TV Tracker easily allows for the display of only selected channels, making the display that much easier to follow.

The widget gallery, widgets.yahoo.com/gallery, currently lists 4242 Windows widgets available for download, and 3977 widgets for Mac, in a variety of categories. As I type this, Yahoo! is featuring Motor Trend Magazine's "Gas Alert Savings" widget which displays a localized list of the lowest priced gas stations in the area, and is available for both Windows and Mac. Widgets can be searched by name, type, or date. The widget categories listed in the gallery are

latest (4242 widgets), updates (2158 widgets), fun & games (575 widgets), date & time (470), news feeds (952), system utilities (354), sight and sound (554), geek stuff (120), cam viewers (273), widget tools (63), app (application) enhancers (109), search tools (352), and various (miscellaneous, 416). Each category may contain hundreds of different widgets, all of which are available for free download.

I have downloaded several other widgets, and selectively load them when I want, and stop them when no longer wanted. In Windows, widgets as a group can be controlled by clicking on the widget icon in the system tray, near the clock. The widget icon is a black background, with two diagonal and interlocked gears. Right clicking on the widget icon displays a comprehensive menu of options which allows the user to control the appearance and function of widgets, load and unload widgets, and otherwise control their behavior.

Some widgets that I selectively use are news feeds which display real time news headlines from hundreds of sources, live weather radar, streaming audio from dozens of radio stations from all over the globe, and many others. Although I have never used it, there is even a pregnancy calculator widget!

Widgets can be a fun adjunct to improve the satisfaction and use of our computers.

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My Registry Adventures

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Suppose you try to delete a file on your Desktop, but instead the system starts to install a program. You furiously click cancel a dozen times, and it stops. So, you try the delete again, and it happens again, and again, even after rebooting. Evidently, some wires are crossed in your computer: the delete key is now assigned to installing a program called ScanSoft PDF Create. That's what made me delve into the registry.

By way of background, I've had problems with ScanSoft ever since their last upgrade, so I knew enough to demand that they remove their setup program, and hallelujah, that did give me back my delete key. But it made sense to me that this fixed only the symptom. Somewhere in there, the wires were still crossed. And that somewhere must be in the registry. Unfortunately, I didn't know enough about the registry—and though I know a little more now, I still haven't fixed the problem.

To start, I pulled down my copy of Windows XP Registry Guide, (Jerry Honeycutt), which I had always planned to read "one of these days." It's a good book, but at over 450 pages, my mind wandered to the registry-cleaning program (System Mechanic 6) I had recently bought from ZoneAlarm. Their general idea is that they scan your computer for errors and then fix them. Not being that trusting, I finally found out how to stop them from making the fixes before I could review and approve them. Then I ran the program. Surprise, they had no proposed fixes. My Registry was perfect!

But I knew that was wrong. As I was following the Honeycutt book and inspecting the registry, I had discovered many out-of-date entries involving the Start > All Programs menu, some for programs I had uninstalled and others perhaps caused by my habit of combining programs under suitable headings. For example, I have a heading called Graphics that holds 10 different graphics-related programs.

When I asked the System Mechanic techie why their program might not find known registry errors, he explained that they must be shared programs, which I

could pin down by running System Mechanic in protected mode. I did, and now found a grand total of 1 error.

I now decided to try some other registry cleaners. Here's a partial list of the commercial offerings: Error Nuker, Free Registry Fix, PC On Point, RegCure, Registry Fix, RegistryHealer, Registry Mechanic, Registry Medic, System Mechanic.

Unfortunately, most of these programs give off a bad smell. These are inexpensive programs; most in the range of \$20 to \$30, but they all try to give the impression that they're free: e.g., "free download," "free scan," but to fix your registry, you must pay. The most egregious is "Free Registry Fix," which claims on its opening screen: "the world's only FREE registry cleaning software on the market today." Their price is \$29.95! Mind you, I understand their problem. Since I don't need registry cleanings very often, I might take my free cleaning without ever buying. But still, it's a shell game. And frankly, I am reluctant to give them my credit card. (Actually, there are at least 4 genuinely free programs, but they are a bit harder to find: CCleaner, EasyCleaner, RegScrubXp, Eusing Free Registry Cleaner.)

Another point is that the commercial product information is more hard sell than information. "Statistics show that over 93.7% of pc's have corrupted registries;" "Don't compromise with second best;" "100% guaranteed." If there are product differences, and there clearly are, I couldn't find them in their literature. And of course, their documentation is weak. This was especially disappointing because I was hoping their documentation would give me a clue about my problem.

These programs all use about the same approach. They offer to scan your registry (Free! Free! Free!). These scans invariably find lots of "dangerous" errors. To fix these, you must register the program, which is when you find out that it isn't free after all. The programs do give you one or two free fixes. But

since all of them find hundreds of errors, you invariably have too many for their free offer. Incidentally, the program that claims to be the only freebie in the universe does give you 50 free fixes, but I don't think you qualify if you have over 50 errors.

After the scan, these programs go automatically into their repair phase, unless you have figured out how to opt out, which again took me quite some time. (The problem here is that they never tell you if choosing "fix errors" will still let you back out.)

So, after System Mechanic had said I had an error-free registry, here's the number of errors I found in the various programs [see table below]

Now, I knew System Mechanic was wrong when they said I had no errors. But when Registry Healer says 3,777 there must be some grade-inflation going on. After all, my computer boots and runs ok. The ScanSoft problem is a suspicion at this point, not a blue screen emergency. So why should I let Registry Healer repair these errors. I suppose it would speed boot-up and shutdown. Would it actually run faster? The sales pitch says yes, but as I said, I'm not that trusting.

To give you a little more feel, here are the warnings from "Free Registry Fix":

Errors Found	#
CCleaner (really free)	1000*
EasyCleaner (really free)	251
Error Nuker	267
Free Registry Cleaner (really free)	1651
Free Registry Fix	740
PC On Point	739
RegCure	2374
Registry Fix	714
Registry Mechanic	430
Registry Medic	1575
RegistryHealer	3777
RegScrubXp (really free)	339
System Mechanic	0
* Estimate, no total supplied.	

- 274 high severity problems—apps won't run, system may crash.
- 121 medium severity—app errors or won't run.
- 345 low severity—computer will run slow.

This seems like a good time to tell what little I have found out about the registry. First, it is loaded into memory when the computer starts. The part we are interested in resembles a Rolodex, a list of programs and their addresses. Entries are added when you install a program, and removed when you uninstall.

Apparently, not all programs uninstall properly; some entries are not removed from the registry—outdated cards left in the Rolodex. This may create a junky registry, but should not automatically cause problems. Another factor is that programs often involve multiple parts, hence multiple entries in the registry. So, if each improperly uninstalled program had 10 parts, the amount of junk might be that much greater. But aside from the wasted time riffling through left-behind cards, no real harm should ensue. Even if you call a contact whose number has been disconnected, all that happens is a no-answer, i.e., the program won't run because you uninstalled it.

Finally, there are other ways to cause registry junk. If you occasionally reorganize your Start button > All Programs menu, it turns out that old entries are not deleted from the registry. Example: I moved Word from its old category called MsWord to a new one called Microsoft. In terms of the Rolodex analogy, this is like adding a card when a contact changes her name. If she keeps her phone both cards are usable, but the old one becomes superfluous as you switch to using her new name.

Are we getting any closer to understanding how a group of registry cleaners can be so far apart in the number of errors they find? Hold on. Registry cleaners conduct their scans by problem categories that they describe with names that are suggestive but by no means clear. I think that the differences in their results are caused by which categories they pick, and perhaps how tight their rules are. (Though it seems likely that System Mechanic contains some programming errors.) Here are my guesses as to what their categories mean:

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Typical Registry Errors Categories

The first 5 items below are written into the registry at the time of program installation, but not always fully deleted at un-installation. Many registry cleaners offer to delete the useless left-behind entries.

1. **Software Locations:** At installation, applications enter their location in the registry.
2. **Controls/ActiveX files/Shared Dlls, Browser Helper Objects:** Applications enter the location of their *.dll and *.ocx files in the registry.
3. **Help Files:** Some applications enter the location of their help files in the registry.
4. **Installers/Add/Remove Programs:** Applications enter the location of their install and uninstall programs files in the registry.
5. **Start Menu and Startup (boot up) entries:** At installation, applications enter the location of both of these items in the registry.

The following items are written into the registry at various other times. The cleaners check to see if they represent real addresses. If not, they are useless and can be deleted.

6. **Windows Services:** This tells the location of various Windows services.
7. **Windows Fonts and Sounds:** These sections tell the location of installed Windows font and sound files.
8. **File Extensions:** This lists file extensions (e.g.: *.txt) and tells which if any applications may open them. If an extension lists no programs, or only nonexistent programs, the entry is useless.
9. **History List:** This section is scanned for invalid history files paths.
10. **Invalid Paths and Folders:** this section is scanned for any other non-existent files and folders.

11. Hardware Drivers

Summary

To summarize, I am guessing that looking for somewhat different errors causes cleaners to get different problem counts. This is only a guess because their product descriptions aren't that specific. Surprisingly, nobody claims to look for more problems than their competitors. I suppose, on these grounds, I should pick Registry Healer because it finds (and fixes) the most errors.

But then, I must face the question; should I let Registry Healer delete the "problems" it reports, so that my system won't crash (which it doesn't do anyway) and will run faster (which I suppose is possible)? I admit that part of my reluctance is fear. Whenever anybody mentions editing the registry, they first warn that you could cripple your computer for life, so back up first. And the registry cleaners themselves, of course, say that their software is not created for any useful legal purpose and that users cannot rely on them working.

Part of my problem is with the concept of backups. If my computer won't start after deleting the "problems," and if I had a backup, and, if I had a boot disk, and, if I could get into restore mode, I should be able to rescue the situation. But with my luck, the computer will start fine. Then three weeks later, some program I haven't run since the "cleanup" will not run. And three weeks is long enough (for someone with senior moments) that I probably won't connect it with the cleanup. And if I did, would I want to lose whatever new stuff I had done since then? No!

This brings to the fore one missing feature of all the cleaner programs. My specific problem is a possible registry error involving ScanSoft. But the cleaner programs don't let me search for ScanSoft errors. They just report what they want to report, and on top of that, they all want to report something different.

Speaking of features, here are some of the differences I noticed between programs: As you know, the cleaners find and delete calls to missing programs. A couple however, also search for the missing programs, so they can correct the call if they find it. I don't know how successful this is, but it makes sense to me. Registry Healer is one of these. For the rest, when they say *repair*, they really mean *delete*.

Another feature I like, is the ability to send a list of the errors to disk or printer. This caters to my cautious nature; it lets me think about the “problems” before agreeing to delete them. Registry Healer and EasyCleaner both offer this.

Another feature I found useful is that one click takes you from the error to the actual registry entry. Again, this reflects the fact that I was trying to investigate a specific problem, rather than running a housecleaning operation. About half the programs, including Registry Healer, offer this feature.

Finally, most but not all have some form of online documentation, though most of it is pretty amateurish. Their general rule is to explain the obvious (click scan to do a scan) (click cancel scan to cancel scan) but gloss over the mysterious, such as the purpose and implications of selecting certain registry categories.

Over the years, I have downloaded many trial versions of small-time programs, usually without knowing exactly what they are supposed to do, and why. If the documentation tells me why they made the program, that’s a big plus in my purchase decision. And if it then explains logically and coherently how it works, I get confidence. If the documentation sounds smart, I believe the program is smart. By contrast, my problem with the registry cleaners is that they do lots of shouting but not much explaining.

Finally, as you know, I still have lots of questions. I am leaning toward Registry Healer, but haven’t bought it yet. E-mail me if you have answers. Who knows, maybe we can do a sequel based on your expertise. ■

Al Gruber is a member of SouthEastern Michigan Computer Organization, Inc. (SEMCO).

There is no restriction against any non-profit group using this article as long as it is kept in context with proper credit given the author. The Editorial Committee of the Association of Personal Computer User Groups (APCUG), an international organization of which this group is a member, brings this article to you. [January 2007]



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The cost of a UFD depends upon the number of bytes it can hold. A 64 megabyte UFD used to be considered more than enough storage. But as the size of data files has increased, so has the size of UFDs. Fortunately, the prices for large storage has dropped considerably. You can pick up a 1 Gigabyte UFD for around \$15. A large UFD currently available is a 16 Gigabyte that sells for \$133 at www.newegg.com.

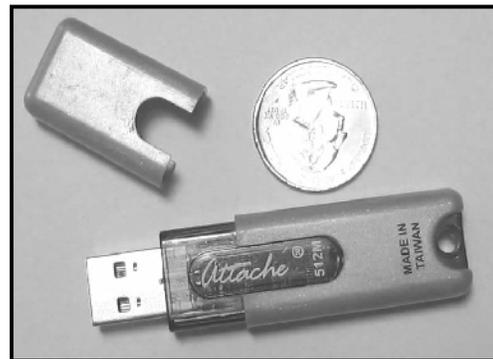


Finally, your choice of UFD can reflect your individuality. You don’t have to settle for the standard gray plastic housing. You can buy UFDs that look like twigs

<http://inhabitat.com/2006/02/08/ooms-twig-usb-drive/> or even animal characters <http://lab.mimoco.com/>.

So, if you find you need to transport data files from computer to computer, a UFD is an easy solution. They are available anywhere you can buy electronics.

A word of caution. To avoid losing data, be sure to eject a UFD before removing it from the USB port. You can go to MyComputer, right click on the UFD device and select eject. Or you can use the Safely Remove Icon on the lower right corner of your desktop.



Typical UFD next to a quarter

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After Retirement, Who Are You?

By Gabe Goldberg, Advisor, Region 2; Columnist, CompuKISS.com Gabe(at)gabegold.com

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Retirement—even temporary job loss—can trigger discomfort with one's changed identity. Especially for those who have been strongly career oriented, the simple question, "What do you do?" can lead to fumbling for an answer. And when socializing or doing business or volunteering, it can be awkward not having the usual trappings of the grown-up world such as business cards.

Though called "business cards", they're hardly restricted to that context. Stay-at-home spouses, volunteers, and other folks often need a quick way to provide identification and contact information such as email address or Web site URL. They can also list concise emergency information and instructions such as medical history, allergies, medications, and someone to contact.

But with modern proliferation of such data—landline telephone number, cell phone number, instant messaging screen name, LinkedIn or other social networking Web site address, Skype number, etc.—it's a challenge conveying one's whole story quickly.

Designing and purchasing cards the traditional way, using a real-world printer, can be a nuisance or daunting challenge, not to mention expensive. And personally printed cards—whether laser or ink-jet—never seem quite as polished. For an online alternative, visit VistaPrint, www.vistaprint.com, a user-friendly and economical source of personalized cards and many other customizable products.

Among VistaPrint's many attractive bargains is the opportunity to order 250 cards for free, paying only shipping. The small "catch" is that there will be a small/tasteful VistaPrint ad on the cards' back. But for a small fee, the ad can be omitted. And larger quantities can be ordered for rates far below those of local print shops.

These bargain cards aren't limited to boring just-the-facts designs; more than 40 backgrounds cater to the most serious or the most fanciful among us. My cards are businesslike, while my wife's show a more flowery and artistic personality. Having browsed the site's design spectrum I occasionally recognize fellow VistaPrint customers from their cards! More elaborate designs are available at slightly higher prices and custom designs can be uploaded to the site.

VistaPrint runs occasional sales and promotions, during which other products (sticky notes, T-shirts, desk calendars, invitations, announcements, notepads, letterhead, etc.) are offered for just the cost of shipping or at greatly reduced prices. I've gotten essentially free personalized rubber stamps and refrigerator magnets showing my business card design. And the site offers a small bonus for referring new customers.

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Washington Area Computer User Group

WACUG Meetings will be held on December 15, 2007 and January 12 [2nd Saturday] from 12:30 to 3:30 pm. at the Fairfax County Government Center, 2000 Government Center Parkway, Fairfax, VA

December: PC Clinic

January: Bill Wash demonstrates Google Earth.

You do not need to be a member to attend. For more information on WAC meetings and events, call the WAC AnswerLine (voice) at (703) 370-7649. Also see WAC's Web Site at

<http://www.wacug.org/>

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**For more information see:
<http://www.nctcug.org/waugp.html>**

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It's fairly simple to change the name. Just click once on the icon, wait long enough so that the computer doesn't interpret the next click as a double click, then the icon text will be in "Edit" mode. You may have to experiment with the timing for this since not all "mice" are set for the same response time. The two clicks need to be fairly close together, but not close enough for a double click. Once in "Edit" mode you can type in whatever name that makes better sense to you.

We should all know by now that if there is a curved arrow in the lower left corner of the icon then the icon is a shortcut to the executable file, not the program or file itself. Be very careful. Sometimes there actually are icons for executable programs placed on your desktop when the programs are installed. Those icons will not have the curved arrow. Don't delete them unless you want to get rid of the program itself. This applies also to other things you might have placed on the desktop yourself, such as graphic or

document files. It might be wise to leave those names in their original form. It might also be a good idea to examine the icons on your computer to see how many, if any, DO NOT have the curved arrow. Chances are there won't be many, possibly none. It is helpful to know if there are any that reflect actual programs or files, just to keep yourself informed about your own computer system.

It always pays to figure out what your computer is up to. Since it lives a life separate from yours it is often not possible to tell just what it has been doing in your absence. With the new powerful operating systems, many, many things go on in the background when the machine is powered on, whether you are there or not. Supernerds probably have eliminated many of the automatic actions, but most of us just muddle on, thankful that the computer runs at all. ■

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Article Submissions

Articles, helpful hints, and other items of interest to readers of the NCTCUG Journal are always welcome and will be published as soon as possible after submission. Priority is given to members' contributions. Items may be submitted via modem to the BBS or on diskette. Submissions to the BBS should be uploaded to the Newsletter Conference and a message left for the Editor. Files should be straight ASCII, unformatted, with C/R only at end of paragraphs; no indents for paragraphs should be used. Preferred format for diskettes is MS-DOS 3 1/2 720k or 1.44Mb. Diskettes in other formats may be submitted but there will be a considerable delay in processing. If absolutely necessary, items may be submitted in hardcopy only but these will also meet with delay.

Membership Policy

The National Capital Tandy Computer Users Group, Inc. is a non-profit [501(c)(3)] organization founded in 1978 to educate users of all Tandy computers and MS-DOS compatible computers. Membership dues are \$25.00 (U.S. Funds) per year, with a \$5 surcharge for international mail. Membership in NCTCUG includes membership in all SIGs, access to the BBS and software libraries, and subscription to the Journal published 8 times per year. Applications may be obtained at any club meeting, by downloading from the BBS, by calling one of the officers or board members, or by writing to the club. A sample newsletter, membership application and related information may be obtained by enclosing \$1 and mailing your request to Jim Rhodes, 201 S. Kensington Street, Arlington VA 22204.

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If you are moving

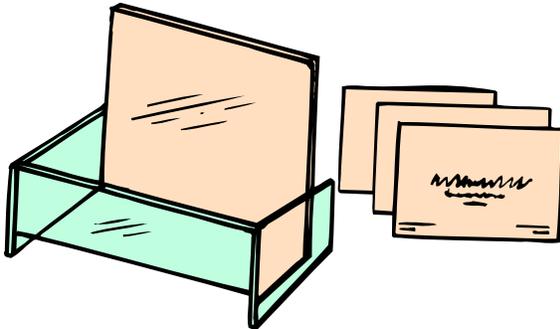
Please send your change of address to the club PO box as soon as possible to avoid missing issues.

Thank You!

(Continued from page 14)

A very convenient feature is the site remembering details of orders for reuse or modification. So when I've moved or changed contact information, I haven't needed to re-design my cards from scratch: I simply update the information and reorder.

Having cards handy in pocket or purse eliminates having to scribble contact information on scraps of paper, and avoids someone having to later puzzle what's written. One warning applies, though: Consider how much information to reveal. Telephone number and email address, perhaps with city and state, may suffice without compromising privacy.



December 2007/January 2008

1st Wed. (12/5, 1/2)
7 p.m. General Meeting

4th Wed (12/26, 1/23)
7 p.m. Internet SIG

3rd Monday (1/21)
(12 17 tentative for financial audit)
7 p.m. Board of Directors

Happy Holidays

All meetings are at **Carlin Hall**, 5711 S. 4th St.,
Arlington VA: East off of Carlin Springs Rd, just
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