

Langa Letter: Ten Ways To Make Windows XP Run Better

Fred Langa offers tips on how to optimize Windows XP for your own work style so you don't have to live with its default settings.

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Microsoft ships each copy of Windows with "default" settings that are designed to be "good enough" for most people. The default settings are a kind of lowest common denominator, ensuring that the operating system will work okay for the mythical "average user."

But, if you're reading this, chances are you're not an average user. You probably know that you can unlock much more of your system's potential by changing Windows' default settings to suit your own particular working style and circumstances.

Today, I'll tell you 10 things I do to make my copies of Windows XP Professional run better. I'll also explain why I make these changes, so you can better decide if using the same tweak (or some variation) will work for you.

Of course, 10 is an arbitrary number. There are actually thousands of possible tweaks; Microsoft's printed "XP Resource Kit Documentation" is 1,699 pages long! Some tweaks listed here are "tip of the iceberg" things, and can lead you to additional sublevels of system adjustments to explore.

Each XP user will approach the operating system in a slightly different way. You might rank-order these 10 tweaks differently or develop an entirely different list. In fact, I hope you do. Please check out my 10 tweaks, and then use the [discussion area](#) associated with this article to post your own.

By the time we're done, we should have an awesome collection of real-world, real-life tweaks that can help make XP work just the way we want it to--instead of the way Microsoft wants it to.

Before Digging In

Tweaking isn't for everyone. If you're using XP and you like it as-is, leave things alone. Don't make needless changes to your operating system, especially since some changes are hard to undo. Likewise, weigh each suggestion against the likely benefit you'll gain. Don't tear apart a working operating system or subsystem unless you believe the results are truly worth it.

Of course, before you do significant system work on any operating system, always make a full backup. You need to be able to restore things to the way they were before, if a change doesn't work out the way you intended.

In XP, it's also a good idea to make a "Restore Point" (click Control Panel/Performance and Maintenance/System Restore) and select "Create a restore point" before each and every

change. System Restore can roll back many minor system changes without requiring you to restore your full backup.

Also, it makes no sense to try to tune and tweak an operating system that's fundamentally incomplete or broken. So, before you start changing anything, right-click on *My Computer* and select *Properties/Hardware/Device Manager* to ensure all your hardware is set up and running properly. In addition, use Windows Update to download and install all current patches and driver updates.

Once you're ready to go, dive in!

1) Tune XP's Visual Performance

Depending on how you set it up, XP may have reserved a substantial amount of your CPU horsepower for things like animating various desktop elements, placing shadows under menus and cursors, and rounding the upper corners of open windows. In the aggregate, these visual effects can slow down screen-drawing operations significantly. Also, XP may have selected a "color depth" for your video system in excess of what you really need; this, too, can slow down screen operations.

To adjust the color depth, right click anywhere on an empty portion of your desktop and select *Properties/Settings*. For most normal business users, the *Color Quality* setting should be set to *Medium (16 bit)*. Higher settings do matter in photo/video editing and similar applications, but for mundane things like Web browsing, E-mail, and word processing, the *Medium* setting is fully adequate, and it's faster.

To adjust XP's desktop animations and visual effects, right click on *My Computer* and select *Properties/Advanced/Performance Settings*. You can choose to activate/deactivate individual items or use the general "best performance/best appearance" buttons. When you've made a change, click *Apply*, and you'll see the effects almost immediately. (By the way: Selecting *Best Performance* makes your desktop look very much like the classic desktop in Win98/Win2K.) Experiment until you've found the mix of speed and visual effects that works best for you.

2) Improve XP's Folder Views

Windows XP's default folder view, with its giant icons, makes me feel as though I'm staring at a coloring book instead of a business computer. But you can easily change the folder view to something more restrained, space-efficient, and useful.

Open *My Documents*. In the *View* menu, select *Status Bar, List, and Arrange Icons by Name*. Next, right click on an empty spot in the *My Documents* toolbar and select *Customize*. Choose any of the *Available Toolbar Buttons* you wish and click *Add*. (I select the *Undo, Delete, Cut, Copy, and Paste* buttons.) Exit the dialog.

Now click to the *Tools* menu and select *Folder Options*. Under the *View* tab, tell XP to show you the full path, to show hidden and system files, not to hide any file extensions, and not to hide protected folders--plus any other settings you want. When you have the folder options set the

way you desire, click the "Apply to all folders" button at the top of the dialog. This adjusts all windows opened by Explorer, so they'll inherit the visual choices you made for this one window.

3) Customize the Taskbar

Right click on an empty spot in the Task Bar (the bar next to the Start button). Uncheck `Lock the Taskbar`. This lets you resize various portions of the taskbar the way you want them. Now, explore the other Taskbar settings to see if any will work for you.

One I always select is Toolbars/Desktop. I place the new Desktop toolbar far to the right on the Taskbar, over by the clock area. Whenever I want access to something on the Desktop that's covered with open windows, I can use this new Desktop toolbar as a shortcut to get to the item on the Desktop without having to close or move any open window.

4) Just Say "No" To Phoning-Home

By default, XP wants to contact the Microsoft servers to auto-search for patches, downloads, and updates. It also wants to send Microsoft information about any crashes you experience. The former can be an annoyance if the auto-update cycle kicks in at an inopportune time. The latter is a potential security hole, because the crash-reporting information includes a mini-dump of XP's memory contents; it can include snippets of open documents, passwords you've recently typed, and so on.

You can turn off both behaviors by right clicking on `My Computer`, selecting `Properties`, and first choosing the `Automatic Updates` tab. Select either `Turn Off` or, minimally, `Notify me`.

Now select the `Advanced` tab and click on `Error Reporting`. Check "Disable error reporting," but leave "notify me when critical errors occur" checked.

5) Control Your Trash

By default, both the Recycle Bin and Internet Explorer's Cache want to consume ridiculous amounts of your hard drive space. Right click on the `Recycle Bin`, select `Properties`, and on the `Global` tab, decide how much space you want the Recycle Bin to consume, either for all drives in your system, or on a per-drive basis. (It's a percentage of the total space. I adjust the slider way to the left, so I'm using "only" a few hundred megs of space for trash.)

Similarly, open Internet Explorer, and select `Tools/Internet Options`. Under `Temporary Internet Files`, click the `Settings` button and select a reasonable size for this cache area. Generally speaking, if you have a fast connection, 5 Mbytes to 10 Mbytes is adequate; 25 Mbytes or so is usually enough with a slower dial-up connection.

6) Rein In System Restore

Like the items in No. 5, above, System Restore is an incredible space hog. It might be worth it, if System Restore were a truly complete and foolproof form of backup, but it's not. At best, System Restore can and will get the core operating system running again after a bad crash, but it doesn't return all files to the pre-trouble state, and it can't remove all traces of a program that went bad. As a result, System Restore's usefulness is limited, and so should be its appetite for disk space.

Right click on `My Computer`, select `Properties`, and select the `System Restore` tab. Select your main drive (usually `C:`), click `Settings`, and move the slider to reserve a reasonable amount of disk space. With a good regimen of daily backups, you can even move the slider all the way to the left. (I do.)

If you have more than one drive, you may wish to turn off System Restore entirely for non-system drives. There's little, if any, benefit to be gained by having them monitored. And if you're really religious about making a full backup before you alter your system or install new software, you may wish to completely turn off System Restore for all drives.

7) Improve XP's Virtual Memory Settings

On its own, Windows places your "swapfile" or "paging file" (a portion of your hard drive that's used as a kind of pseudo-RAM) on your `C:` drive, and sets it up so it can grow and shrink as needed. However, you may be able to do better. For example, if you have more than one physical disk in your system, you may get better performance from either placing the swapfile on the lesser-used disk (assuming it's the same speed as the primary disk) or by splitting the swapfile across two disks. You also may see modest improvements in responsiveness if you set the swapfile to a fixed size, so Windows won't waste time growing and shrinking the file on demand.

Swapfile management has been somewhat of a black art in previous versions of Windows, but the XP Help System actually has good information on the subject (a first for Windows!). Select `Help And Support` from the Start menu, and do a search for "virtual memory." Be sure to check out the "related topics" delivered by the search for additional good information.

8) Control XP's Hidden Devices

For reasons known only to the programmers in Redmond, XP may deliberately hide certain system devices from you. While this might make a kind of sense in, say, XP Home edition, these devices remain hidden even in the Professional edition.

For example, if you're used to Windows 98's networking applet, you may be surprised by how clean and uncluttered XP's networking applet is. But XP may simply be hiding lots of networking elements from you. To see if this is the case, right click on `My Computer`, select `Properties`, `Hardware`, and `Device Manager`. In `Device Manager`, select `View and Show Hidden Devices`.

Depending on how XP was set up, you may find a number of networking devices--"Miniports"--that the Networking applet didn't display. In my case, I found unnecessary PPOE, PPTP, L2TP, and Dial Out elements. I disabled all these unneeded elements, leaving only the IP miniport enabled, and thus restored some sense of control over my networking setup. Depending on how your system is set up, you may find other hidden devices, or no others. It varies hugely. But at least now you'll know if XP is hiding things from you.

9) Take The Brakes Off Your Network Settings

XP's default network settings for Maximum Transmission Unit, Receive Window, and such, may or may not be ideal for your circumstances. The only way to know is to take a close look: For example, [DSL Reports](#) and [SpeedGuide](#) have excellent free information, online tests, and even

one-click tweaks that can automatically optimize all or some of XP's internal plumbing for high-speed connectivity. DSL Reports also offers a free, simple network tweaking tool called [DrTCP](#) that lets you instantly and easily adjust a variety of parameters; this tool makes iterative testing a snap, as you experiment to find the best settings for your particular setup.

(Incidentally, when WinXP-specific solutions aren't offered, use those for Windows 2000; that's the closest match for XP.)

10) Lock The Door

XP has a built-in desktop firewall, but it's turned off by default. To turn it on: Right click on *My Network Places*, *Properties*, right click on your connection (e.g. *Local Area Connection*), select *Properties* again, then *Advanced*, and then click the box for *Protect My Computer*.

But note that the built-in firewall is very basic, as the free [LeakTest](#) tool will demonstrate for you. A third-party firewall (such as [ZoneAlarm](#)) will do a much better job than XP's built-in firewall.

And whatever you use for desktop security, be sure to test your system using any of the safe, free, online security scans. Be sure to follow any suggestions the sites make to close security holes detected by the tests. For example, there are excellent tests available at:

- [Shields Up](#)
- [DSL Reports Port Scan](#)
- [DSL Reports Full Scan](#)

We've also discussed many other security services in earlier columns, such as [this one](#).

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