Clean Up Your Hardware/Software

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Inside Your Computer

- Even the cleanest household will have dust bunnies inside their computer cases; laptops can also accumulate debris
- Besides dust, you may find pet hair, mice droppings and even a crispy Potato Bug!
- Schedule a once-a-year date to clean your computer, more often if you live near a farm, highway, construction site or have pets

This is NOT what you want to see inside your computer case



Outside Your Computer

- Don't be alarmed by the number of wires, ports and dongles sticking out the back of your computer
- Everything has a home and will only fit where it's supposed to
- If you think that you may not be able to figure out where to plug things back in after unplugging them, take a photograph, sketch a drawing or look here:

The Back of Computer Case



Steps to take for cleaning inside your case

- Purchase a can of Dust-Off or any air-in-acan product
- Do not use a vacuum cleaner; you could damage the electronics with the hose and they also build up static electricity
- Remove all attached peripherals from PC
- Slide the cover off
- Bring the case outside or to the garage; there may be a lot of dust flying around
- Blow into all fan areas including CPU, power supply and other case fans

Steps to take, continued

- Use the can-o-air from the inside to the outside
- Blow in between the hard drive cases and other wiring
- Use the air on the front bezel to blow dust in between the cracks
- Try not to shake the can too much otherwise it will become too cold to handle
- You may want to purchase two cans and alternate in between dusting





A Can-O-Air Is Invaluable



- Use a Can-o-Air on your keyboard. Turn it sideways and blow in between all keys
- Wipe down the computer case with a clean dry cloth or spray a small amount of Windex on the cloth and wipe, NEVER spray directly on the case
- You can use the same technique on your mouse

- If you have one of the older style CRT monitors, you can use Windex to clean the screen but never spray it directly onto the surface
- If you have a flat screen monitor, do not use any cleaning solvents on it. Instead use a dry soft cloth and gently wipe the screen. A microfiber cloth such as the one used to clean eyeglasses works well.

- When wiping the screen, do not press hard which may cause the pixels to burn out
- You may also use a cloth dampened with distilled water or an equal amount of distilled water and white vinegar.

- > Do not use the following on your screen:
 - Paper towels
 - Tissue
 - T–shirt
 - Ammonia based cleaners
 - And remember never to spray anything directly onto any electronic item

Software

- All new computers come with bloatware, i.e. software that is of no use to you and costs \$\$ to activate in most instances
- Most people don't know that they can uninstall this software without consequence to Windows
- Removing unnecessary items frees up hard drive space

Software - Removing it

The best place to start is the Control Panel

- Windows 7: Start > Control Panel > Program and Features
- Windows XP: Start > Control Panel > Add or Remove Programs
- Dell, HP, Gateway, etc. install software that they think you might like but are not free uninstall them!

Examples of Bloatware

- Multiple internet browsers such as Netscape, AOL, Safari. You only need one or two browsers, not every browser known to man.
- Games: Some manufacturers think that all you do is play games—games that they expect you to pay for. Delete them via the Control Panel
- Trialware: Typically this is a full version of software that allows you to run it for 30–90 days, then it locks itself until you buy it.

Examples of Bloatware

- Anti-virus software: Some computers come with 30 day trial versions of Norton, McAfee or some other A/V software. Don't forget, if you are with Comcast, you get Norton for free. AT&T gives you McAfee.
- A word about A/V Software: If your computer has 1 GB of memory or less, and is more than three years old, do not use Norton or McAfee. Use Microsoft Security Essentials or any free A/V program.

Clean up your files

- Regain space on your hard drive by deleting unused files:
 - Delete files from your download or temp folder
 - Remove .zip and .exe files. After you install a program, you can delete the executable file.
- Use CCleaner to delete temporary internet files, cookies, history.
- Uninstall programs you no longer use or have never used

Clean up files, continued

- Do you see a number of programs in your Add/Remove programs list but don't know what they are or do? Google the Program name to see if it is something you need.
- Run Disk Cleanup tool in Windows:
 - Click Start > All Programs > Accessories > System Tools > Disk Cleanup > Choose "C" Drive
 - Check the boxes next to the items you want to delete > click OK

📇 Disk Cleanup for OS (C:)	×										
Disk Cleanup											
You can use Disk Cleanup to free up to 18.4 MB of disk space on OS (C:).											
Files to delete:											
Downloaded Program Files	592 KB 🔺										
🗹 📄 Temporary Internet Files	108 KB 📃										
🔲 🔁 Offline webpages	253 KB 🗐										
🔲 🌺 Game Statistics Files	10.2 KB										
Recycle Bin	3.83 MB 👻										
Total amount of disk space you gain:	9.68 MB										
Description											
Downloaded Program Files are ActiveX controls and Java applets downloaded automatically from the Internet when you view certain pages. They are temporarily stored in the Downloaded Program Files folder on your hard disk.											
Clean up system files <u>How does Disk Cleanup work?</u>	View Files										
0	K Cancel										

A Word on Defragging

- As your computer ages and you add more and more data to the hard drive, or add and remove programs, the hard drive becomes fragmented. I.E. all the bits and pieces stored on the disk get all jumbled up. Putting them back in order may help speed up your computer.
- Download and install the free Defraggler utility. This does a better job than the builtin Windows defragging utility

Defragging, continued

- http://www.piriform.com/defraggler
- When installing, be sure to uncheck the box where it asks to install Google Chrome
- The first time you run Defraggler, you should do a full Defrag. Thereafter you can do a Quick Defrag
- How often? There is no right answer. If you use your computer heavily, then run a Defrag weekly. Otherwise, monthly or even quarterly should be fine

This is a healthy and fully unfragmented drive

💕 Piriform Defraggler												
Action Settings Help												
Drive Removable Disk (A:) OS (C:) Data (D:) RECOVERY (E:) FreeAgent GoFlex Driv	File System Unknown NTFS NTFS NTFS NTFS	Capacity 0.0 GB 160.4 GB 931.5 GB 10.0 GB 1,397.3 GB	Used 0.0 GB (0%) 106.4 GB (66%) 114.7 GB (12%) 3.7 GB (37%) 133.4 GB (10%)	Free Space 0.0 GB (0%) 54.0 GB (34%) 816.8 GB (88%) 6.3 GB (63%) 1,263.9 GB (90%)	Fragmentation Unknown Unknown 0% Unknown Unknown	Status Ready Ready Analysis Complete Ready Ready	ete					
👝 Drive D: 🌗 File list 🧹	🔎 Search 📕	Drive map 🛛 🥜 H	lealth									
Status					Properties							
Analysis	Complete				Used Free s	space: pace:	123,172,810,752 bytes 114.7 GB 877,029,232,640 bytes 816.8 GB					
Analysis results: 0 Fragmen 0 Total Fra	nted Files (0.0 B) agments				Сара	sity:	1,000,202,043,392 bytes 931.5 GB					
Analyze	Defrag	Paus	se	Stop								
Check for updates		K										Online Help
	Defrag					Clic	k the arrow	/ (circl	led in	red)		
Quick Defrag			to get the Quick Defrag option									
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NOTE!

- If you have a Solid State hard drive, never defrag it.
- Do not defrag thumb drives or anything with "flash" memory
- If you don't know if you have an SSD, then download and install the free Speccy utility
- http://www.piriform.com/speccy
- Run it and if it mentions Heads and Cylinders then you have a conventional hard drive, not solid state which has no mechanical parts



Organizing Files

- My Documents (WinXP) and Libraries (Win7) = Your key to organizing files
- Store all documents including pictures, music and videos in one location to aid in backing up
- Windows XP has My Document with subfolders for Documents, Pictures, Music and Video
- Window 7 has Libraries with the same folders

Organizing, continued

- Create a "Downloads" folder for files and programs downloaded from the internet
 - One location that can easily be cleaned out periodically
- Avoid creating folders on the "C" drive, get in the habit of only using Libraries or My Docs

The Desktop

- The desktop is not designed to store files- it is intended for shortcuts and gadgets only. Store files in Libraries or My Docs. Create shortcuts on the desktop to frequently used files.
- Contrary to popular belief, storing documents on the desktop does not slow down your PC, however, the desktop can become corrupted more easily and you are at greater risk of losing your files.

Desktop, continued

- Keeping your personal data files in libraries keeps things organized in such a way that they are separated from system and program files.
- Having all files in one location makes it easy when doing a backup.

A word about backup

- How many of you have a backup of your documents, music, and pictures?
- Backing up can be as simple as copying data to a thumb drive or as complicated as creating an "image" of your hard drive
- I prefer the simple yet effective technique of making a copy of all my data. I use Cobian for this procedure

Manually backing up your data



Questions?

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