

## Windows 7 New Features

- Faster (Better use of Multi-processors, faster I/O)/ Smaller in size
- Uses less energy in battery mode (Devices not used are turned off)
- Full 64 bit support
- Improved Taskbar
  - Quick Launch toolbar has been replaced with Pin to Taskbar
- Pin to Start Menu (also allows users to see recent application uses)
- AERO Windows, AERO Peek, Shake
- Home group for sharing over a network
- Snap Windows
- Remote media streaming
  - e [Remote Desktop Protocol](#) (RDP) of Windows 7 is enhanced to support real-time multimedia application
- Windows Touch (need a touch capable screen)
- Gadgets

## Windows 7 Minimum Requirements

- 32 bit Version
  - 1 GHz Processor
  - 1 GB of Ram
  - 16 GB of Hard Disk Space to Install
  - Support for DirectX 9 graphics device with WDDM 1.0 or higher driver
- 64 bit version
  - 1 GHz 64 bit Processor
  - 2 GB of Ram
  - 20 GB of Hard Disk Space to Install
  - Support for DirectX 9 graphics device with WDDM 1.0 or higher driver

## Windows 7 Features (Cont.)

- Handwriting Recognition
- New functions in Control Panel
  - Clear type tuner, Display color calibration, Gadgets, Recovery, Troubleshooting, Workplace center, Location and Other Sensors, Credential Manager, Biometric Devices, System Icons and Display
  - Windows Action Center (formerly Windows Security Center)
    - Windows Health Center, Windows Solution Center
- Applications moved to Windows Live Update
  - Windows Movie Maker, Windows Calendar, Windows Mail, Windows Photo Gallery
- Windows search can search External Drives if Connected
- Recover from sleep faster (Reconnect to WiFi)

## Windows 7 Features (Cont.)

- Faster use of USB devices
- Improves performance of Solid State Drives
  - New operating system commands
  - Removing commands like disk defragmentation which is not needed
- File folders can now be organized into "libraries"
  - Libraries are folders that can expand beyond one physical disk
- Windows 7 can sense if you use more than one finger on your touch pad or touch screen
  - Allowing for neat tricks such as spreading your fingers to zoom into a picture
- Highlights of New Features in Windows 7
  - <http://windows.microsoft.com/en-US/windows7/products/features>
- More Details of New Functions in Windows 7
  - [http://en.wikipedia.org/wiki/Windows\\_7](http://en.wikipedia.org/wiki/Windows_7)

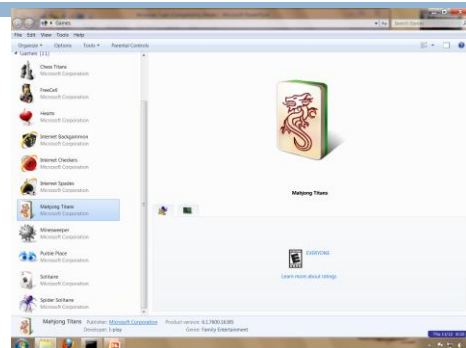
## New Accessories in Windows 7

- Math Input Panel
- Snipping Tool
- Sticky Notes
- Connect to a Projector
- Improved Toolbar on Paint and Wordpad

## Games in Windows 7 Professional

- **Windows 7 Professional has games turned off**
  - Go to Control Panel->
  - Programs->
  - Turn Windows Features On or Off->
  - Games->
  - Check the games you want->
  - Hit Apply->
  - Reboot when finished

## Games in Windows 7



## Windows 7 Performance Test

- Faster I/O on Same Computer
  - ▣ In PC World WorldBench 6 Nero tests, Windows 7 showed big improvements



## Windows 7 Performance Test

- Longer Time to Start Applications than Vista
  - ▣ Launching Photoshop (in seconds)



## Windows 7 Performance Test

- Start Up and Shut Down about the same as Vista
  - ▣ Lenovo has indicated that they have made improvements in their version of Windows/7 Start-Up and Shut-Down
- Execution Speeds Faster than Vista on Multi-CPU computers
  - ▣ Not Documented Yet

## Windows 7 Versions

- Microsoft is offering six versions of Windows 7:
  - ▣ Starter for Netbooks
  - ▣ [Home Premium](#)
  - ▣ [Professional](#)
  - ▣ [Ultimate](#)
  - ▣ OEM for new Computers
  - ▣ Enterprise

## Windows 7 Versions

	Home Premium Upgrade	Professional Upgrade	Ultimate Upgrade
	\$119.99 <sup>1</sup> <b>\$199</b>	\$139.99 <sup>2</sup> <b>\$199</b>	\$199.99 <sup>3</sup> <b>\$299</b>
<b>Features</b>			
Make the things you do every day easier with <a href="#">improved desktop navigation</a> .	✓	✓	✓
Start programs faster and more easily, and quickly find the documents you use most often.	✓	✓	✓
Make your web experience faster, easier and safer than ever with <a href="#">Internet Explorer 8</a> .	✓	✓	✓
Watch many of your favorite TV shows for free when and where you want with <a href="#">Internet TV</a> .	✓	✓	✓
Easily create a home network and connect your PCs to a printer with <a href="#">HomeGroup</a> .	✓	✓	✓
Run many Windows XP productivity programs in <a href="#">Windows XP Mode</a> (separate download).	✓	✓	✓
Connect to company networks easily and more securely with <a href="#">Domain Join</a> .	✓	✓	✓
In addition to full-system <a href="#">Backup and Restore</a> found in all editions, you can back up to a home or business network.	✓	✓	✓
Help protect data on your PC and portable storage devices against loss or theft with <a href="#">BitLocker</a> .	✓	✓	✓
Work in the language of your choice and switch between any of 35 languages.	✓	✓	✓

## Migration Issues

- Need 16GB of hard disk space to migrate from Vista
  - 20GB for the 64 bit version
- Cannot put Windows 7 64 bit system on top of Vista 32 bit system
  - See Control Panel/System for version of Vista currently installed
  - Need to do a full install
- Cannot upgrade from Windows/XP to Windows 7
  - Need to do a full install
  - Need to install Vista first and then Windows 7
- Need at least 1GB of memory and a 1GHz processor for 32 bit version of Windows 7
- DirectX 9 graphics device with WDDM 1.0 or higher driver

## Migration From Vista

Start Time	Action
6:00 a.m.	Backup all data and delete from hard disk to make 16GB available for installation. Also deleted some non used programs. Only 2.5 GB available originally. Useful tool WinDirStat to find largest files on drive.
7:45 a.m.	Check compatibility Issues: TrendMicro Antivirus, Diskeeper needed to be uninstalled. Also compatibility problems with ATI Catalyst, Lenovo Care
10:30 a.m.	Install Windows 7 upgrade on Vista system Product Key Issue
12:10 p.m.	Install Microsoft Essentials (Free Virus Check Program)
12:30 p.m.	Restore all data that was deleted from hard disk in step 1

## Migration From Vista (cont.)

Start Time	Action
2:30 p.m.	Check for problems: •Big Dates calendar wallpaper program did not work. Company no longer support product. Big Dates worked next day after Windows 7 updates received? •Sprintview not working; Installed new version
3:30 p.m.	Check out new features
5:00 p.m.	Project Completed

## Migration to Windows 7 from Windows/XP

- PC Club member suggested using Laplink PC Mover Windows 7 Upgrade Assistant to move applications from Windows/XP to an external drive and then back onto Windows 7 after the upgrade to Windows 7
- It is available for \$10.00 at Amazon.com
- [http://www.amazon.com/gp/product/B002TA4ZKA/ref=pd\\_lpo\\_k2\\_dp\\_sr\\_l?pf\\_rd\\_p=486539851&pf\\_rd\\_s=lpo-top-stripe-1&pf\\_rd\\_t=201&pf\\_rd\\_i=B000I3C36S&pf\\_rd\\_m=ATVPDKIKX0DER&pf\\_rd\\_r=088T96YW4K6Z76DHBDA5](http://www.amazon.com/gp/product/B002TA4ZKA/ref=pd_lpo_k2_dp_sr_l?pf_rd_p=486539851&pf_rd_s=lpo-top-stripe-1&pf_rd_t=201&pf_rd_i=B000I3C36S&pf_rd_m=ATVPDKIKX0DER&pf_rd_r=088T96YW4K6Z76DHBDA5)

