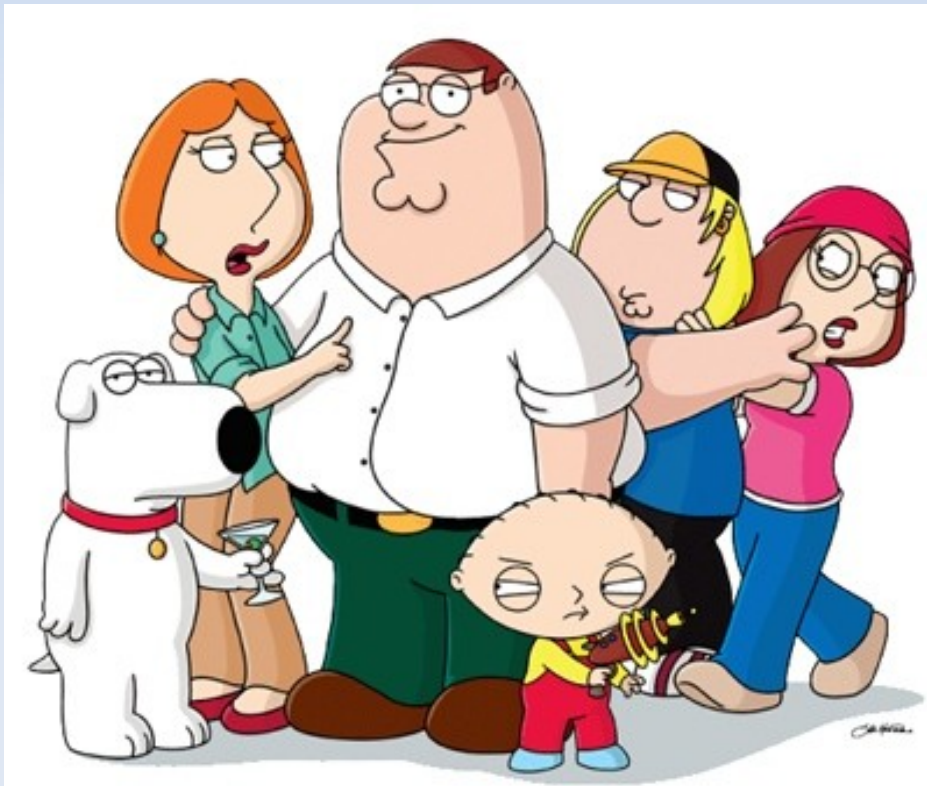


So, you want to buy a computer?



by Gregory Pickett

Who will be using the computer?



- You
- Your spouse
- Your kids
- All of the above

How will the computer be used?



- Business
- Entertainment
- Gaming
- All of the above

Types of computers

- Desktop
- Laptop
- Netbook
- Tablet PC
- Smartphone

Desktops



- System cost
 - Entry: \$350 to \$500
 - Mid-range < \$1K
 - Power: \$1.5 K - \$2K
- Dell or HP are solid
- Intel CPU's prevalent
- Choose “White Box” computers carefully
- Customize wisely

Laptops

- Dual-core processors – a must for multitasking
- 16 inch screen can display a true 1080p (1920-by-1080-pixel resolution) picture – need HDMI
- Skimping on battery quality may cost dearly
- Buy a USB mouse designed for laptops
- Screen coating may effect outdoor usage
- Ethernet port is still important
- Docking stations are not just for work

Netbooks



- Inexpensive (\$300 – 500) & portable
- Screen sizes of 12 inches or smaller
- Internet use and light word processing
- Run Windows XP
- Intel Atom processor

Operating systems

- Windows
 - Windows XP
 - Windows Vista
 - Windows 7
- Apple – Mac OS 10.6 (“Snow Leopard”)
- Linux – Ubuntu, Red Hat, SUSE
- *Key question:* Will there be driver support for my printer, monitor, scanner, etc.?

Windows XP, Vista, or 7

- XP best selling OS for nearly 5 years; but it came out in 2001 and mainstream support ran out in 4-2009
- Just say no to Vista
 - Aero environment is a resource hog
 - Windows 7 is now out as of 10-2009
 - UAC not implemented well
- Windows 7 is getting favorable reviews and will run on hardware that Vista won't

Processor (CPU)



- Intel
 - Celeron (ugh!)
 - Atom
 - Dual-Core
 - Core 2 Duo
 - Quad-Core
 - Core I7
- AMD
 - Athlon 64 X2
 - K10

Memory (RAM)



- DIMMS
- 32 bit OS – 4 GB max
- 64 bit OS – over 4GB
- Maximizing RAM is one of the cheapest ways of increasing performance of a PC

Hard drive



- Long-term storage
 - 160 - 750 GB
 - 1 TB
- Drive speed is important
 - 5,400 RPM is average
 - 7,200 RPM is fastest

Graphics adapter

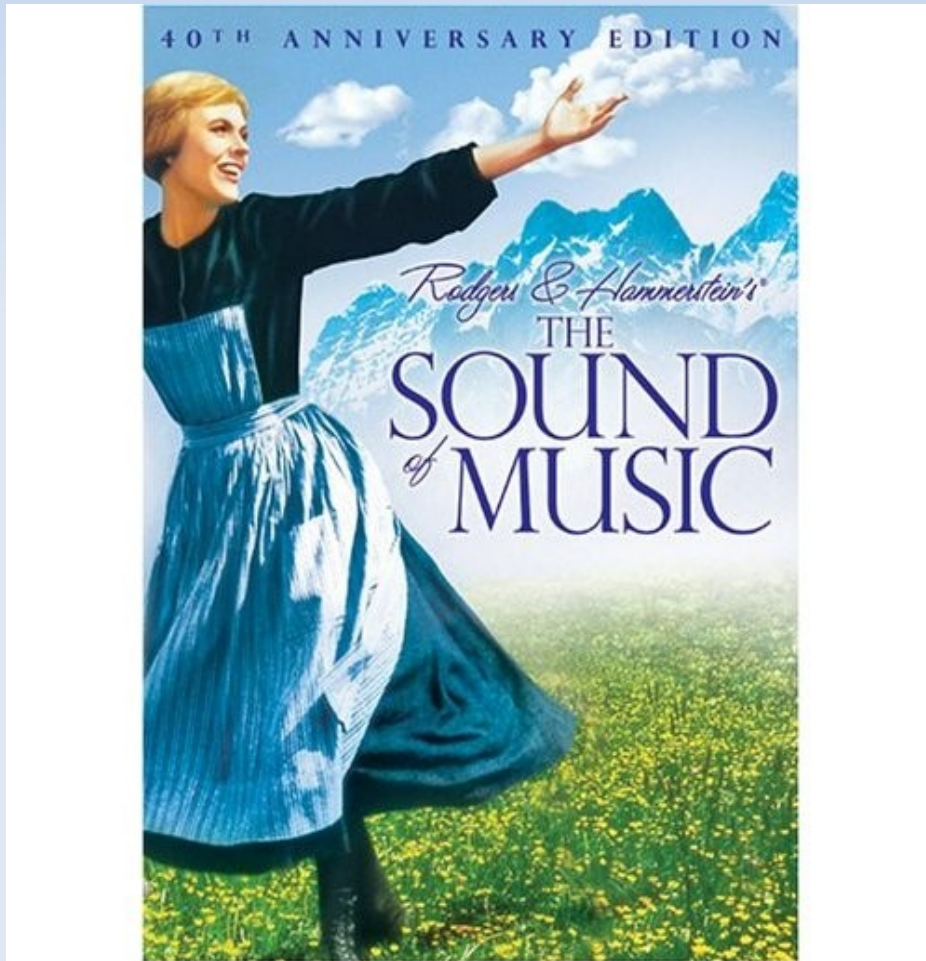
- Integrated on motherboard; or
- Separate internal plug-in card
- Video ram (VRAM) of 512 MB - 1 GB essential for PC gaming
- Outputs
 - VGA or DVI to computer monitor
 - HDMI to HDTV

Monitor



- CRT now obsolete
- LCD sizes range from 17 – 24 inches and larger
- Some 26 inch HDTV's can double as a monitor – check for VGA, DVI, and HDMI connections

The hills are alive with the ...



- Home office:
integrated sound ok
- Multimedia PC
 - Dolby 5.1 or 7.1
 - Surround sound
 - '0.1' is subwoofer
- Content still should
be DVD or Blu-ray

Networking

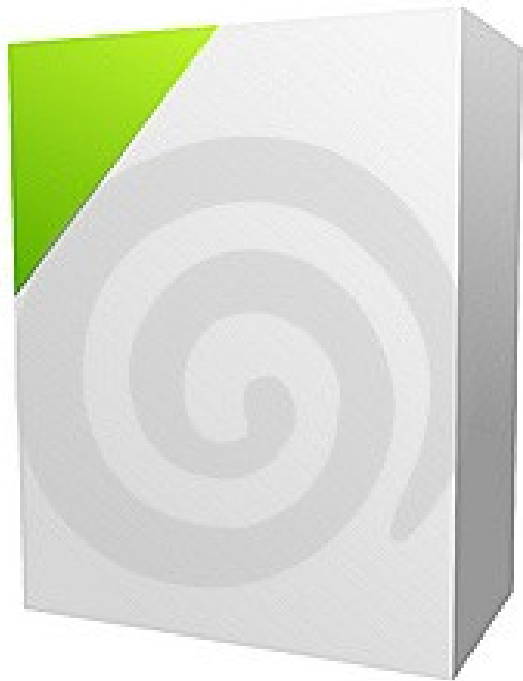


- Ethernet
- Wi-Fi
 - Class of wireless local area network (WLAN)
 - 802.11 b,g,n
- 3g
 - "mobile broadband"
 - Verizon, AT&T

External storage

- Floppy drive (1.44 MB) (rare in new PC's)
- CD-RW (700 MB)
- DVD-RW (4-8 GB)
- Blu-ray disc (50 GB)
- USB flash drive (1 GB – 64 GB)
- External USB HD (160 GB – 2 TB)

Software



- The Good
 - MS Office 2007
 - Adobe Acrobat Pro
 - Symantec
- The Bad
 - Bloatware
 - Trialware
- The Ugly – spyware

Computer case (desktop)



- Tower
- Gaming case
- Small form factor
 - Dell Studio Hybrid
 - Apple Mac mini
- "All-in-One"
 - Apple iMac

Extras



- Printer
 - Inkjet vs. LaserJet
 - Photo printer
 - USB or wireless connection
 - Price vs. supply costs
- Scanner
- Digital camera
- Wireless router

Time to buy



- New
 - Best Buy, Dell, HP
- Refurbished
 - Tiger Direct
 - Dell Outlet
- 'But should I buy online or from a store...?'

Get your coupons

- Ebates.com
- FatWallet.com
- Techbargains.com



Price comparison



- PriceGrabber
- NexTag
- MySimon
- Amazon
- CNET
- Google

Things to consider

- Seller rating
- Tech support
- Protection plan
- Taxes & shipping
- Rebate – instant or mail in
- Warranty
- Return policy

How do I transfer my data?



- Flash drive
- Burn CD/DVD
- External hard drive
- Online storage

What about that old computer?



- File server
- Donate to school
- Give to a relative
- Give to an IT worker who hasn't bought a new computer in 8 years

For more information ...

- <http://www.pcworld.com/printable/article/id,125647/printable.html>
- <http://www.pcworld.com/printable/article/id,125649/printable.html>
- Consumer Reports *Electronics Buying Guide* – *Winter 2010*

Thank you



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