

# 10030: Tips, Tools and Toys for the Road Warrior

Thursday, August 11, 2011: 3:00 PM-4:00 PM Europe 5 (Walt Disney World Dolphin )  
Speaker: [Geoff Smith](#) (IBM Corporation)



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## Abstract

- Today smart phones, net-books, tablets, and e-book readers are everywhere. In many cases the lines separating what they are capable of are blurring.
- Our speaker will provide an overview of the devices and operating systems available to mobile users today. What hardware, applications and apps are most useful for the mobile user? What are the security threats and how can you protect your information? Is there one device that you can use to do it all?
- This is meant to be an open interactive session. What devices, technologies and applications do you find most useful? Come join the conversation.

Remember when...Hey, you can tell it's portable, because it as wheels

- **Motorola's first cell phone weighed in at 2 pounds**





## Taxonomy of mobile devices

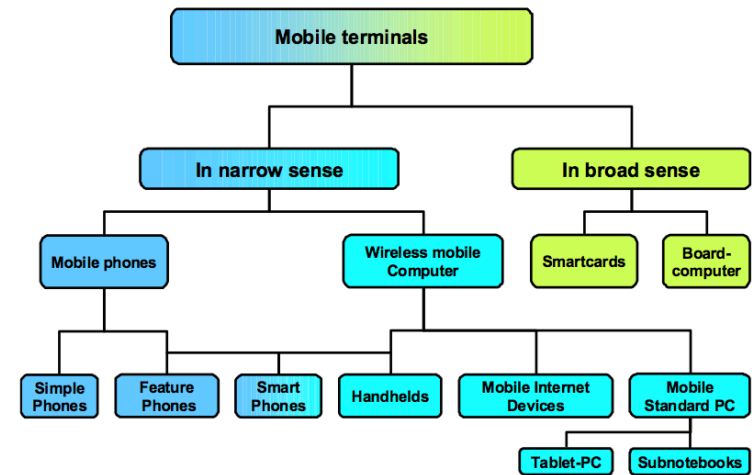
The evolution of mobile computing is ongoing. As technology changes new permutations are appearing every day

Examples: Laptops, palmtops, mobile phones, Smart phones, PDAs tablets, hardened laptops, Netbooks, Smartbooks embedded computers

Wearable examples: calculator watch, virtual retinal display, head mounted heads-up display

To learn more:

- Wikipedia has an excellent summary and history of portable computing
- See also Springer Journal on <http://www.springerlink.com/content/106503/>



Mobile map interactions during a rendezvous: exploring the implications of automation  
David Dearman, Kori M. Inkpen and Khai N. TruongPDF (457.2 KB)HTML 1-13

Dynamic 2D-barcode for multi-device Web session migration including mobile phones  
Alexandre AlapetitePDF (337.3 KB)HTML 45-52

Information privacy in institutional and end-user tracking and recording technologies  
David H. Nguyen and Gillian R. HayesPDF (358.3 KB)HTML 53-72

Evaluation of a wearable computer system for telemonitoring in a critical environment  
Peter Weller, Leila Rakhmetova, Qi Ma and Gerlinde ManderslootPDF (282.2 KB)HTML

- Diagram from Proceedings of the International Conference on E-Business (ICE-B 08) INSTICC Press, July 2008, Porto, Portugal, URL: [www.ice-b.org](http://www.ice-b.org) - TAXONOMY FOR MOBILE TERMINALS - A Selective Classification Scheme authors Gunther Schiefer and Michael Decker

## Overview : Types of Mobile computers

- **Laptop computer**
- **Netbook computer**
- **Subnotebook**
- **Tablet personal computer**
- **Handheld computers**
  - **Ultra-Mobile personal computer, or UMPC**
  - **Personal digital assistant or enterprise digital assistant, which include:**
    - **Handheld PC or Palmtop computer**
    - **Pocket personal computer**
    - **Electronic organizer**
    - **Pocket computer**
    - **Calculators**
    - **Handheld game console**
    - **Portable media player**
    - **Portable data terminal**
    - **Information appliance**
    - **Smartphone**
  - **Wearable computers**

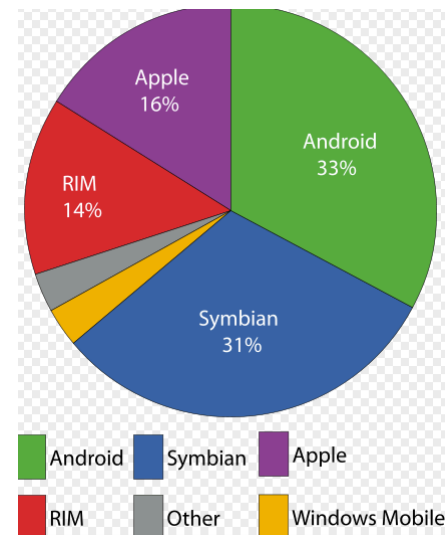
## Smart Phone OSes

Symbian (Nokia, Samsung, LG, Sony Ericsson, etc.)																				
OS 9.1	OS 9.2	OS 9.3	OS 9.4																	
S60				Symbian Platform																
3.0	3.1	3.2	5.0	Symbian^2				Symbian^3				Symbian^4								
3rd Edition	3rd Edition, Feature Pack 1	3rd Edition, Feature Pack 2	5th Edition (Symbian^1)																	
Research in Motion BlackBerry OS (BlackBerry)																				
4.1 Branch	4.2 Branch	4.5 Branch	4.6 Branch	4.7 Branch				5.0 Branch												
4.1.0	4.2.1	4.5.0	4.6.0	4.6.1	4.7.0	4.7.1	5.0.0													
Apple iPhone OS (iPhone, iPod Touch, iPad)																				
1.0		1.1					2.0		2.1	2.2	3.0	3.1		3.2	4.0					
1.0.1	1.0.2	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	2.0.1	2.0.2		2.2.1	3.0.1	3.1.2	3.1.3							
Microsoft Windows CE (HTC, Samsung, LG, Toshiba, Sony Ericsson, Dell, Acer, etc.)																				
5.0	5.2					6.0					(KIN 1, KIN 2)					(Zune, Zune HD)				
Microsoft Windows Mobile						Microsoft Windows Phone 7					Microsoft KIN OS					Microsoft Zune OS				
5.0	6.0	6.1	6.5			7.0					1.0					1.x Branch 2.x Branch 3.x Branch 4.x Branch				
			6.5.1	6.5.3	6.5.5															
Linux - Smartphones																				
(HTC, Samsung, LG, Toshiba, Sony Ericsson, Dell, Acer, etc.)				(Nokia)	(Nokia, LG, Intel, etc.)				(Palm)						(Samsung)					
Google Android				Maemo	MeeGo				webOS						bada					
1.5	1.6	2.0	2.1	5.0	1.0 (Maemo 6.0)				1.0/1.1 Branch			1.2 Branch		1.3 Branch		1.4 Branch		1.x		
				1.0.2 1.0.3 1.0.4 1.1.0					1.2.0 1.2.1	1.3.1 1.3.5 1.3.5.1	1.4.0 1.4.1.1									
Google Chrome OS/Chromium OS				Intel Moblin		Ubuntu Netbook Edition														
Alpha Stages				2.0	2.1	8.04 (LTS)			8.10	9.04	9.10	10.04 (LTS)			10.10					
Linux - Netbooks																				

## Market Share of Smartphone OSes

Source	Year	Symbian	Android	RIM	IOS	Microsoft	Other OSs
Gartner [25]	2011 Q1	27.4%	36.0%	12.9%	16.8%	3.6%	3.3%
Gartner [26]	2010	37.6%	22.7%	16.0%	15.7%	4.2%	3.8%
Gartner [26][27]	2009	46.9%	3.9%	19.9%	14.4%	8.7%	6.1%
Gartner [27][28]	2008	52.4%	0.5%	16.6%	8.2%	11.8%	10.5%
Gartner [28]	2007	63.5%	N/A	9.6%	2.7%	12.0%	12.1%

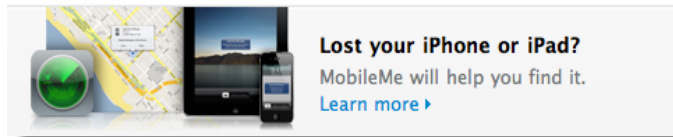
For more information,  
See Wikipedia's article on  
Mobile Operating Systems.  
They have an excellent chart  
That does a comparison of them



[http://en.wikipedia.org/wiki/Mobile\\_operating\\_system](http://en.wikipedia.org/wiki/Mobile_operating_system)

## Some Wireless Security Tips for Mobile Devices

- Because you never know when your laptop or device will be lost or stolen:
  - Take full advantage of any hardware or software encryption that is available for your laptop or device.
  - If your hardware does not have hardware encryption, there are software offerings that will encrypt your hard drive.
  - If your laptop has power-on password and or hardware locking capability use it.
- Look for devices that have remote wipe capability. Or devices like the iPhone that will erase all personal information after 10 unsuccessful attempt to log in.



- Locate it on a map
- Display a message or play a sound to help you find it
- Set a pass code to lock remotely
- Initiate a remote wipe of all data and set the device back to it default factory setting

- If you use Bluetooth:
  - Always use a nontrivial key for pairing
  - Turn discovery off once you've paired the device

## Need an office suite and you don't want to spend a lot of money?

You have a couple of choices.

**Open Office** which includes:

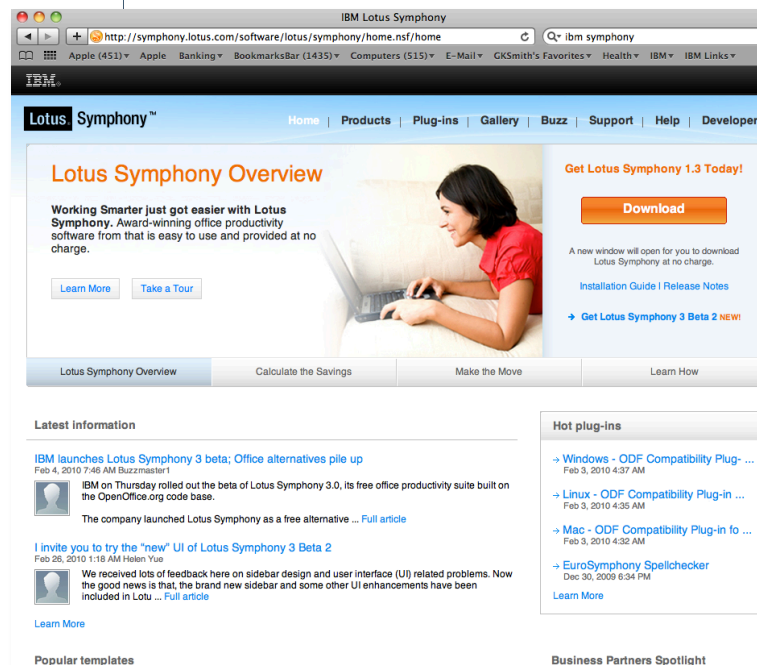
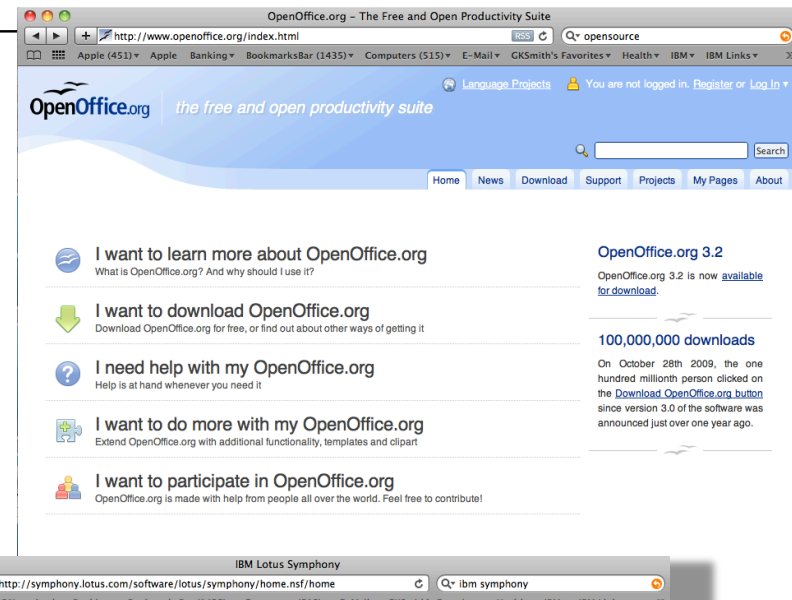
- A Word Processor
- Presentation software
- Spreadsheet
- Drawing
- Database

IBM offers:

**IBM's Lotus Symphony**

Both office suites are offered on multiple platforms:

Windows  
Mac OS  
Linux



## On the road and you need an application fast? Check out what's available in open source applications

### Web Browsing



#### Mozilla Firefox

The premier free, open-source browser. Tabs, pop-up blocking, themes, and extensions. Considered by many to be the world's best browser.

[Download Page](#)

### Video Player, BitTorrent, Podcasting



#### Miro

Beautiful interface. Plays any video type (much more than windows media player). Subscribe to video RSS, download, and watch all in one. Torrent support. Search and download from YouTube and others.

[Download Page](#)

### IM - Instant Messaging



#### Pidgin

Connect to multiple IM accounts simultaneously in a single app, including: AOL IM, MSN, and Jabber.

[Download Page](#)

### Download helpers



#### SkipScreen

A Firefox extension that skips unnecessary clicks and wait times on Rapidshare, Megaupload, Mediafire, zShare, and more.

[Download Page](#)

### E-mail



#### Mozilla Thunderbird

Powerful spam filtering, solid interface, and all the features you need.

[Download Page](#)

### RSS



#### RSSOwl

Solid cross-platform RSS client.

[Download Page](#)

### Peer-to-Peer Filesharing



#### Cabos

A simple, easy to use filesharing program. Gnutella network.

[Download Page](#)



#### Gnucleus

A very good Gnutella search and download filesharing program.

[Download Page](#)

### Video Playback



#### Miro

Beautiful interface. Plays any video type (much more than windows media player). Subscribe to video RSS, download, and watch all in one. Torrent support. Search and download from YouTube and others.

[Download Page](#)



#### VLC

Plays more video files than most players: Quicktime, AVI, DIVX, OGG, and more. Pretty good interface.

[Download Page](#)



#### MPlayer

Similar to VLC-- plays loads of video formats.

[Download Page](#)



#### Media Player Classic

Compact, but powerful media player. Plays anything under the sun. No install necessary.

[Download Page](#)



## More open source...

You'll be surprised at how many quality applications are available

Most are now available on MAC and Unix well as the ever popular Windows OS. To learn more just Google "open source" or see sites such as

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

### FTP / SFTP



**Filezilla**  
Excellent FTP program.  
[Download Page](#)

### IRC



**X-Chat 2**  
IRC client.  
[Download Page](#)

### Archiving



**PeaZip**  
Fantastic archiving utility to extract and pack archives of an extensive amount of formats. PeaZip also features password protecting archives, keyfile support, system integration, a lovely interface, and much more.  
[Download Page](#)

### Word Processing / Office Suites



**OpenOffice.org**  
Big, full featured suite of tools for word processing and spreadsheets. Compatible with and a free replacement for Microsoft Word documents. Also supports OpenDocument Format.  
[Download Page](#)



**AbiWord**  
A word processor. Leaner and quicker than OpenOffice. Compatible with Microsoft Word documents and OpenDocument Format.  
[Download Page](#)

### Podcasting



**Juice**  
Solid podcasting client.  
[Download Page](#)

### DVD Ripping



**Handbrake**  
DVD to MPEG-4 ripper/converter.  
[Download Page](#)

### Sound Recording



**Audacity**  
Simple sound recording tool.  
[Download Page](#)

### Graphics / Photo Editing



**GIMP**  
Photo editing application that rivals Photoshop in features.  
[Download Page](#)



**Paint.NET**  
Graphics editor with a very nice interface.  
[Download Page](#)



**Inkscape**  
Vector graphics application.  
[Download Page](#)



## Speaking of free, anybody have an old laptop they want to bring back to life?

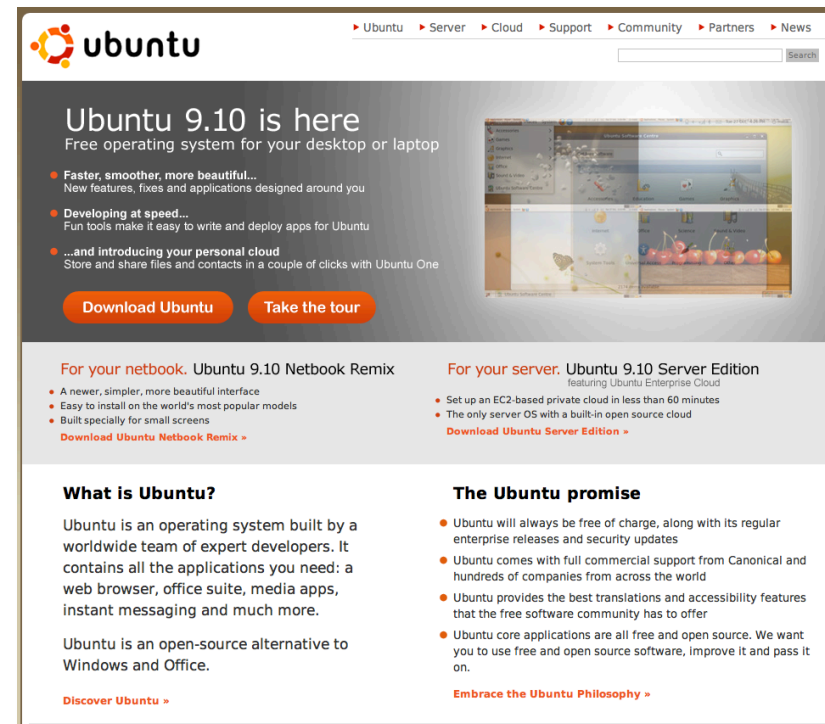


is a great choice.

Revitalize that old laptop for the kids.

They get to learn UNIX too

- It has a very friendly and sophisticated interface. The latest version rivals MAC OSX and Windows 7 in neat visual effects
- It's free and easy to install.
- You can try it out just by running it from the DVD no installation necessary
- It has modest memory and hard drive requirements
- Should you decide you like it, it will cohabitate nicely with your exiting windows installation
- A special "netbook edition" is also available



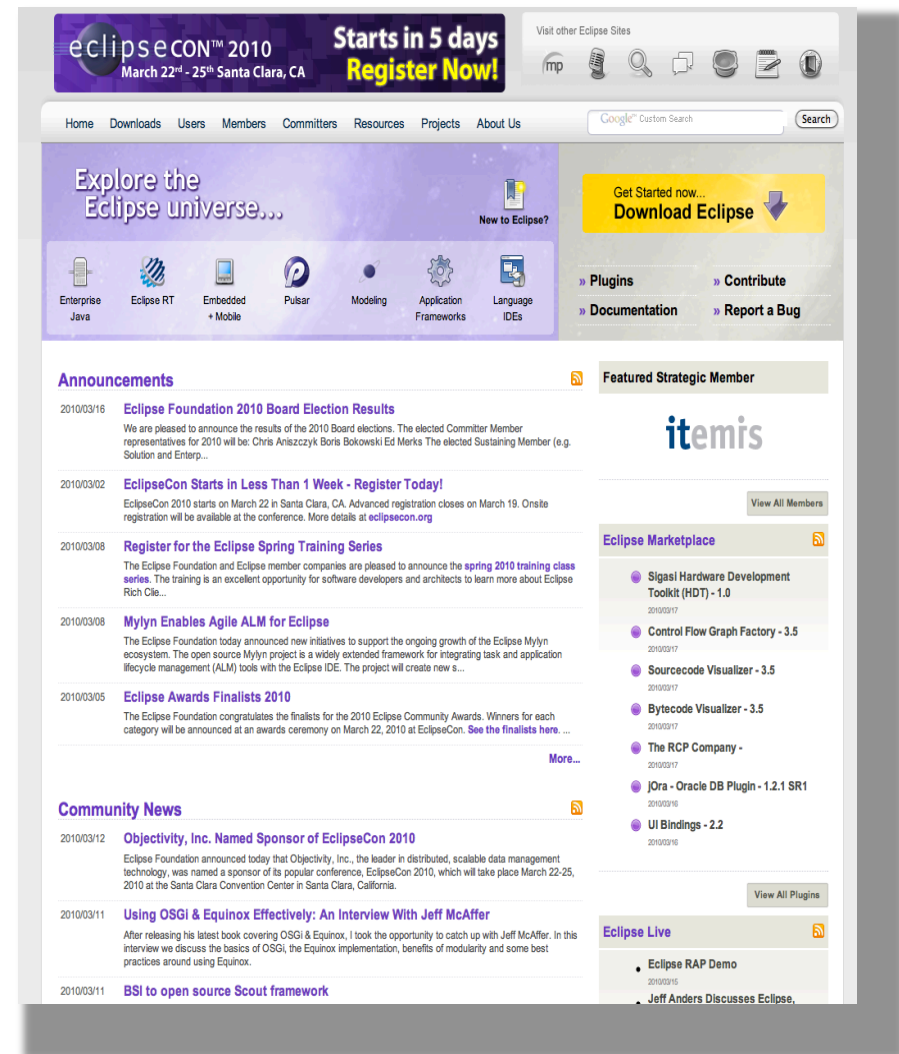
## Want to do a little programming hobbyist programming, but you don't want to pay big bucks for an IDE?

Check out Eclipse.

Eclipse is an open source community whose projects are focused on building an extensible development platform, runtimes and application frameworks for building, deploying and managing software across the entire software lifecycle.

Eclipse open source community has over 60 open source projects. These projects can be conceptually organized into seven different "pillars" or categories:

- 1 Enterprise Development
- 2 Embedded and Device Development
- 3 Rich Client Platform
- 4 Rich Internet Applications
- 5 Application Framework
- 6 sApplication Lifecycle Management (ALM)Service
- 7 Oriented Architecture (SOA)



## Are you a programmer with some spare time on your hands?

- Consider developing an App!
- It could help pay the kid's tuition.
- It might help you retire early.

Two screenshots of developer websites. The top one is the Apple Developer page for 'Start Developing iPad Apps', showing the iOS SDK 4 and a list of resources. The bottom one is the Android Developers page for 'Download the Android SDK', showing a table of SDK packages for Windows, Mac OS X, and Linux.

**Start Developing iPad Apps**  
Create innovative applications for iPad with iOS SDK 4 and a range of technical resources and information.

**IOS SDK 4**  
IOS SDK 4 includes a complete set of development tools for creating applications for iPad, iPhone, and iPod touch, including the Xcode IDE, iPhone Simulator, Instruments, Interface Builder, and more.  
[Download the IOS SDK from the iPhone Dev Center](#)

**Android developers**  
Home **SDK** Dev Guide Reference Resources Videos Blog

**Android SDK Starter Package**  
**Download**  
Installing the SDK

**Downloadable SDK Components**  
Adding SDK Components  
Android 2.2 Platform *new!*  
Android 2.1 Platform  
Android 1.6 Platform  
Android 1.5 Platform  
Older Platforms  
SDK Tools, r6  
USB Driver for Windows, r3

**ADT Plugin for Eclipse**  
ADT 0.9.7

**Native Development Tools**  
Android NDK, r4b *new!*

**More Information**  
SDK System Requirements  
SDK Archives

**Download the Android SDK**  
Welcome Developers! If you are new to the Android SDK, please read the [Quick Start](#), below, for an overview of how to install and set up the SDK.  
If you are already using the Android SDK and would like to update to the latest tools or platforms, please use the *Android SDK and AVD Manager* to get the components, rather than downloading a new SDK package.

Platform	Package	Size	MD5 Checksum
Windows	<a href="#">android-sdk_r06-windows.zip</a>	23293160 bytes	7c7fcec3e6b5c7c3df6ae654b27effb5
Mac OS X (intel)	<a href="#">android-sdk_r06-mac_86.zip</a>	19108077 bytes	c92abf66a82c7a3f2b8493ebe025dd22
Linux (i386)	<a href="#">android-sdk_r06-linux_86.tar.gz</a>	16971139 bytes	848371e4bf068dbb582b709f4e56d903

### Doodle Jump iPhone game hits the 3 million downloads mark : Tech ...

Mar 9, 2010 ... [doodle jump.jpg](#) The App Store is awash with so many downloads these ... of \$2.9 million dollars in **revenue** since it launched in March 2009. ...  
[www.techdigest.tv/2010/03/doodle\\_jump\\_iph.html](http://www.techdigest.tv/2010/03/doodle_jump_iph.html) - [Cached](#)

## Some cool things about the Mac

- It could be just my experience, but my Mac doesn't suffer gradual performance slowdowns as other my other OS did -- forcing me to rebuilt it every 6 months or so.
  - When I bought my second Mac, it was very easy to migrate all my data and applications to the new machine. I just ran the migration assistant, connected my new computer to my old computer using a fire wire cable, then powered on my old Mac while holding down the "T" key (for transfer). In an hour, everything was there. No reinstalling apps.
  - Macs have a built in back up application called "time machine" which runs automatically and lets you recover important files and applications, simply by going back in time.
  - Mobile me lets Mac users sync things like address books, calendars, contacts across their machines, bookmarks, mail and it gives me access to my personal information photos documents, whatever from any web browser
  - The light-up keyboard is great for working at night or low light conditions
- The track pad and gestures make navigation easier and offer more flexibility.
  - The light-up keyboard is great for working at night or low light conditions
  - When things hang, it's easier to shutdown the thread and move on.
  - Although there is no blue screen of death. Macs do have a grey veil of death, but it seems to happen less often...could be my imagination.
  - I especially like the virtual machine software that lets me run multiple operating systems.
  - It runs Windows just great!



## Cool features in Windows 7

A sample of the new, improved, or downright cool

- Windows Touch to turn your fingers into a mouse.
- Play To for streaming music or video around the house.
- Remote Media Streaming to access your home media library via the Internet.
- HomeGroup for headache-free sharing on a home network.
- Windows Search to instantly find virtually anything.



The screenshot shows the Windows 7 features page on the Microsoft website. At the top, there's a navigation bar with links like Home, Discover Windows, Products, Shop, Downloads, and Help & How-to. Below this, the main heading is "Windows 7 features". Underneath, there's a sub-heading "Engineered by us. Inspired by you." followed by a paragraph about the development process. The page then lists several features with accompanying images and descriptions:

- HomeGroup**: Takes the headache out of sharing files and printers on a home network.
- Jump Lists**: Speedy access to your favorite pictures, songs, websites, and documents.
- Snap**: A quick (and fun!) new way to resize and compare windows on your desktop.
- Windows Live Essentials**: 7 great programs, 1 free download. Mail, Movie Maker, Photo Gallery, and more.
- Windows Search**: Find virtually anything on your PC, instantly.
- Windows Taskbar**: Better thumbnail previews, easier-to-see icons, and more ways to customize.

## Redundancy isn't just for mainframes anymore.

Be prepared. Here are some options:



- 1 **Boot Managers** let you install more than one OS on your laptop hard drive. If one system image fails, gets corrupted or worse still infected, you usually can boot the other. Often you can use one image to fix or disinfect the broken one.
- 2 **Virtualization software** to install multiple operating systems on one machine. Developers have used this many years to help test their code in multiple environments. If you use a MAC, running virtualization software lets you run nearly every OS that runs on the Intel platform
- 3 **Carry a spare** on a flash or SD Card. Many operating systems can be installed on removable media such as a memory stick an SD card or even a CD. Again this can be useful to repair or disinfect your laptop if it becomes corrupted or infected.





## Computing from a distance

Using technologies like Remote desktop and Back to my Mac have a number of advantages:

- It lets you keep your system physically secure
- Provides access to high-speed company networks which can be helpful if when your job requires moving large files around.
- Last but not least, it gives you access to another processor without impacting your laptop. Virtual machines are great, but they still a good deal consume CPU and memory
- Lets multiple people share a workstation that may have specialized applications or hardware
- There are many Smartphone apps that make it easy to connect to the desktop or laptop back at the office as if you were sitting in front of it.



iTap RDP client ...  
Business



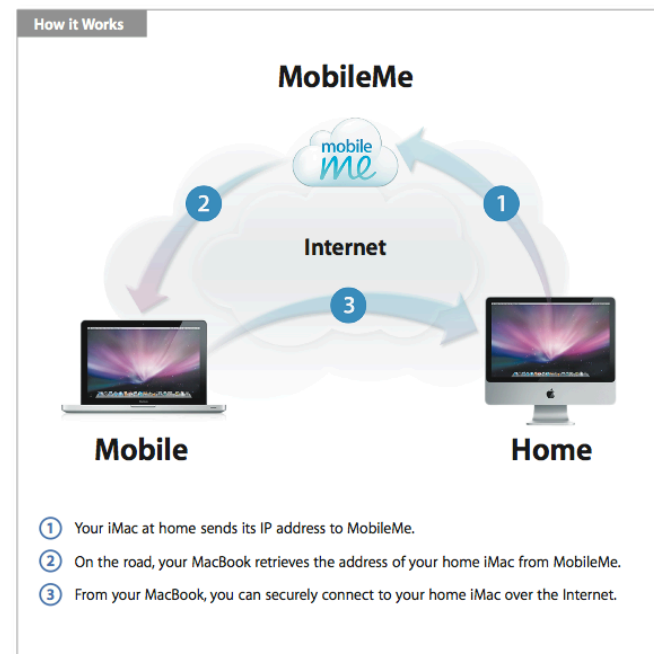
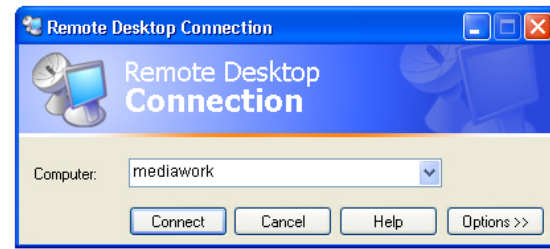
Wyse PocketCl...  
Business



LogMeIn Ignition  
Productivity



iTeleport for iPad  
Productivity



## Team Viewer

- A free for non-commercial use application that lets you control your computer remotely with an iPad or any web browser.
- Do remote administration and support
- Allows remote reboot and reconnect
- Remote presentation of products and solutions
- Do File transfers



### One solution for everything

While most competitors offer different packages for remote support, remote administration, training and sales (and also charge for them...) TeamViewer is the one-stop solution for everything you need: TeamViewer includes all modules in one simple and very affordable package.



### Remote support without installation

With TeamViewer you can remotely control any PC anywhere on the Internet. No installation is required, just run the application on both sides and connect - even through tight firewalls.



### Remote administration of unattended servers

TeamViewer can also be used to control unattended computers and servers. System service installations even allow remote reboot and reconnect.



### Remote presentation of products, solutions and services

TeamViewer allows you to present your desktop to a partner. Share live demos, products, and presentations over the Internet within seconds.



### File transfer

TeamViewer comes with integrated file transfer that allows you to copy files and folders to and from a remote partner - which also works behind firewalls



### Works behind firewalls

The major difficulties in using remote control software are firewalls and blocked ports, as well as NAT routing for local IP addresses. If you use TeamViewer you don't have to worry about firewalls: TeamViewer will find a route to your partner.



### Highest security standard

TeamViewer is a very secure solution. All versions feature completely secure data channels with key exchange and AES (256 Bit) session encoding, the same security standard used by https/SSL.

[More information](#)



### Browser based access

On the road and need to control a remote computer? Why don't you use TeamViewer Web Connector? The purely html and flash based solution can be used from nearly any browser and operating system.



### Online status display

Are your team members in many different locations? Need to present your desktop or collaborate on a document? In the TeamViewer partner list you can see who is available and connect with them in one mouse click.



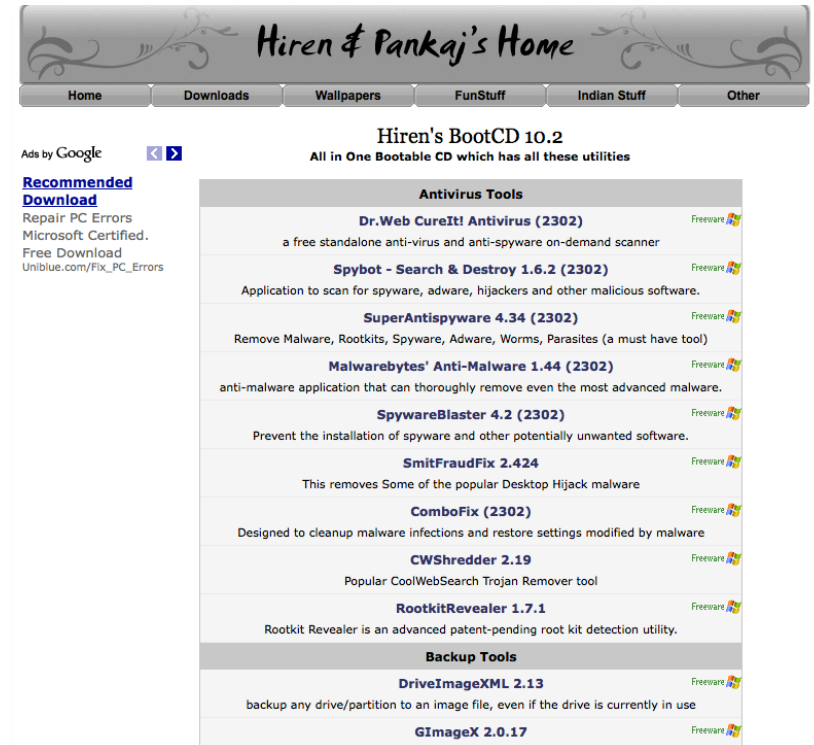
### Very competitively priced, free versions available

TeamViewer offers great value for low prices. TeamViewer even offers a free version for non-commercial use.



## Cool Tools: Hiren's Boot CD

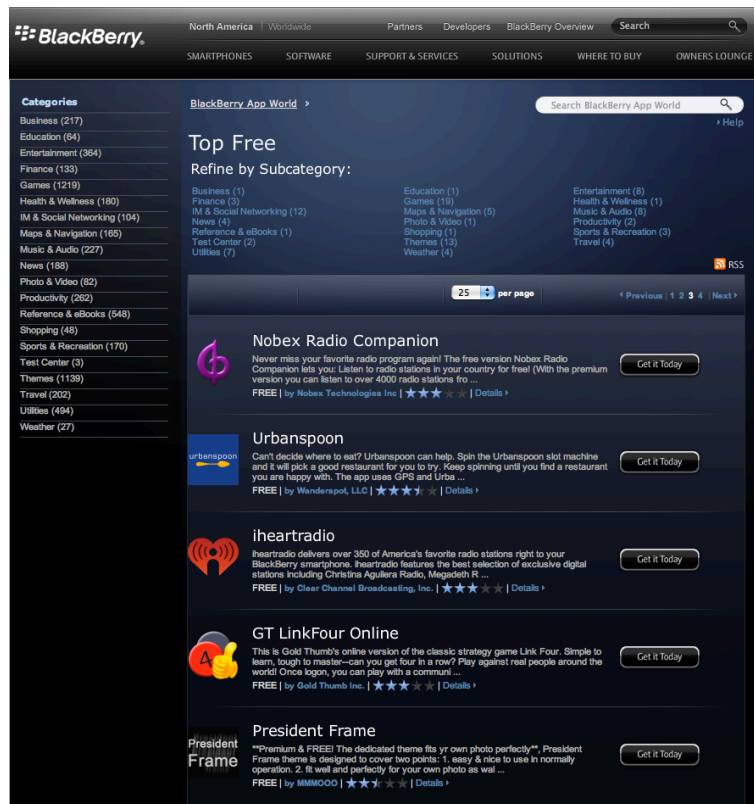
- Free utility to windows users that:
- Lets user reset passwords
- Boot with a windows XP desktop to enable troubleshooting
- And more...
- <http://www.hiren.info/pages/bootcd>



The screenshot shows the website for Hiren's BootCD 10.2. The header features the title "Hiren & Pankaj's Home" and navigation tabs for Home, Downloads, Wallpapers, FunStuff, Indian Stuff, and Other. Below the header, the text "Hiren's BootCD 10.2" is displayed, followed by "All in One Bootable CD which has all these utilities". On the left side, there is a "Recommended Download" section with links to "Repair PC Errors", "Microsoft Certified", "Free Download", and "Uniblue.com/Fix\_PC\_Errors". The main content area is titled "Antivirus Tools" and lists several utilities, each with a "Freeware" icon and a version number in parentheses. The utilities listed are: Dr.Web CureIt! Antivirus (2302), Spybot - Search & Destroy 1.6.2 (2302), SuperAntispyware 4.34 (2302), Malwarebytes' Anti-Malware 1.44 (2302), SpywareBlaster 4.2 (2302), SmitFraudFix 2.424, ComboFix (2302), CWSredder 2.19, and RootkitRevealer 1.7.1. Below this list, there is a section titled "Backup Tools" which includes DriveImageXML 2.13 and GImageX 2.0.17. Each utility is accompanied by a brief description of its function.

Antivirus Tools	
<b>Dr.Web CureIt! Antivirus (2302)</b>	Freeware
a free standalone anti-virus and anti-spyware on-demand scanner	
<b>Spybot - Search &amp; Destroy 1.6.2 (2302)</b>	Freeware
Application to scan for spyware, adware, hijackers and other malicious software.	
<b>SuperAntispyware 4.34 (2302)</b>	Freeware
Remove Malware, Rootkits, Spyware, Adware, Worms, Parasites (a must have tool)	
<b>Malwarebytes' Anti-Malware 1.44 (2302)</b>	Freeware
anti-malware application that can thoroughly remove even the most advanced malware.	
<b>SpywareBlaster 4.2 (2302)</b>	Freeware
Prevent the installation of spyware and other potentially unwanted software.	
<b>SmitFraudFix 2.424</b>	Freeware
This removes Some of the popular Desktop Hijack malware	
<b>ComboFix (2302)</b>	Freeware
Designed to cleanup malware infections and restore settings modified by malware	
<b>CWSredder 2.19</b>	Freeware
Popular CoolWebSearch Trojan Remover tool	
<b>RootkitRevealer 1.7.1</b>	Freeware
Rootkit Revealer is an advanced patent-pending root kit detection utility.	
Backup Tools	
<b>DriveImageXML 2.13</b>	Freeware
backup any drive/partition to an image file, even if the drive is currently in use	
<b>GImageX 2.0.17</b>	Freeware

## Popular Blackberry Apps

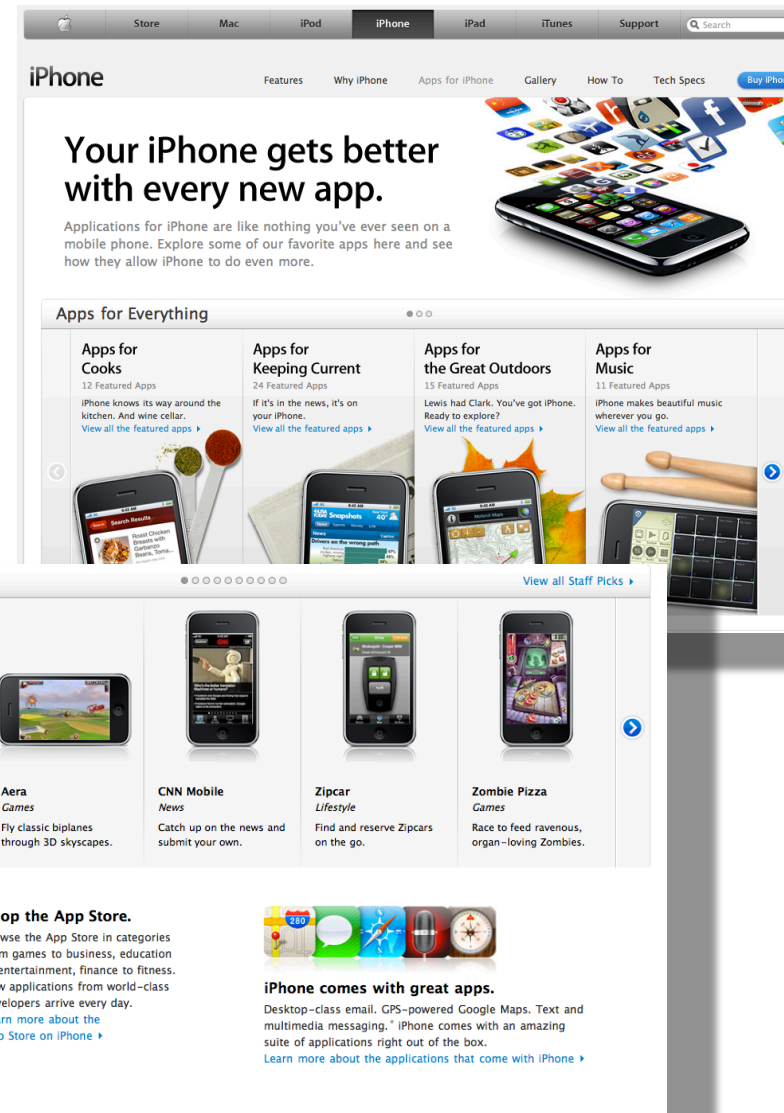


<http://appworld.blackberry.com/webstore/topfree?page=3>

## Some Popular iPhone Apps

Web apps that run in a browser

Apps that run native on the iPhone

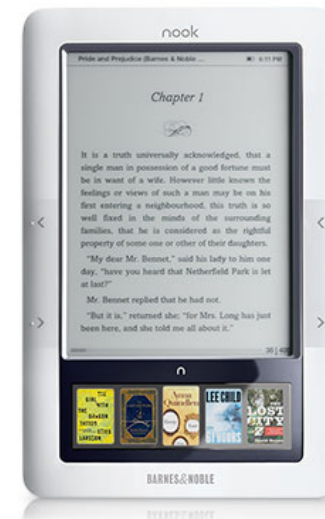
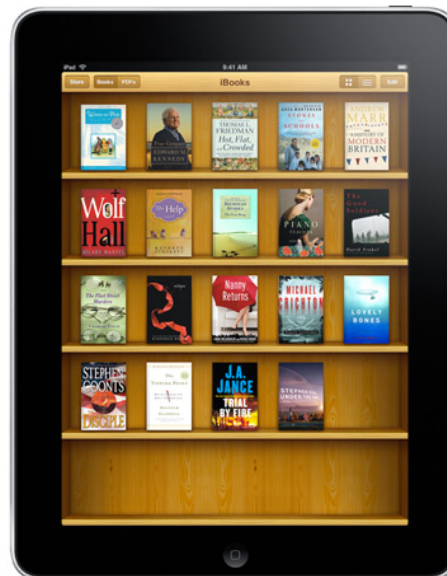


## No Bookshelf Boundaries

- The publishing industry has changed...
  - Kindle DX, Kindle Wi-Fi, Kindle 3G
  - Nook Wi-Fi, Nook 3G
  - Sony Reader G3
  - iPad Wi-Fi, 3G

**Take your library with you  
wherever you go...**

**Have a favorite book in PDF format, just email it to your Kindle address or copy it to an SD card and pop it into your SONY Reader or Nook**



[Kindle for PC](#)  
Available now



[Kindle for Mac](#)  
Available now



[Kindle for iPhone](#)  
Available now



[Kindle for BlackBerry](#)  
Available now



[Kindle for iPad](#)  
Available now



[Kindle for Android](#)  
Available now

## iPad Fun

### Cool Stuff ...

Touch screen, take any place, lightweight nearly always connected, runs a long long time on one charge, almost a replacement for my laptop, plays movies great, looks cool, has tons of cool apps, geographically aware, great for e-mail, reading books, reading newspapers, listening to streaming music, MP3s, audio books, viewing my photos, learning new things, talking to other people, Bluetooth keyboard capable.



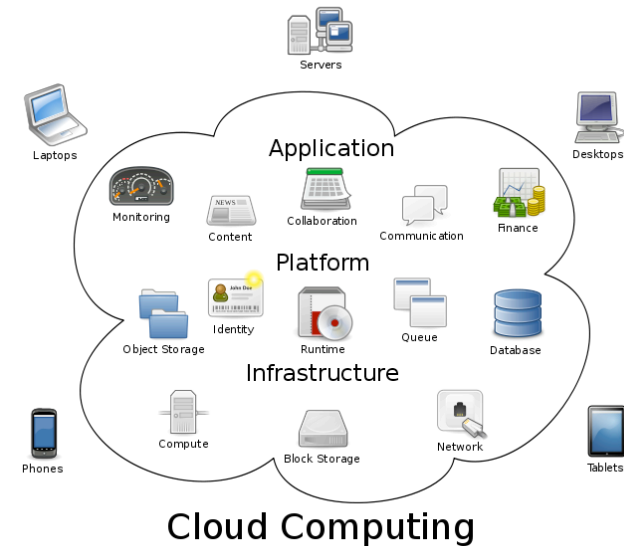
### My wish list ...

Multitasking, a built in camera (like all other Apple products save the iPod), USB port for all sorts of things...easier transfer of files, printing the stuff you create with iWorks, and an SD of any size slot for easy expansion. Still, I love it.

## The Mobile Future Looks Cloudy

- **Cloud computing**

- From Wikipedia, the free encyclopedia

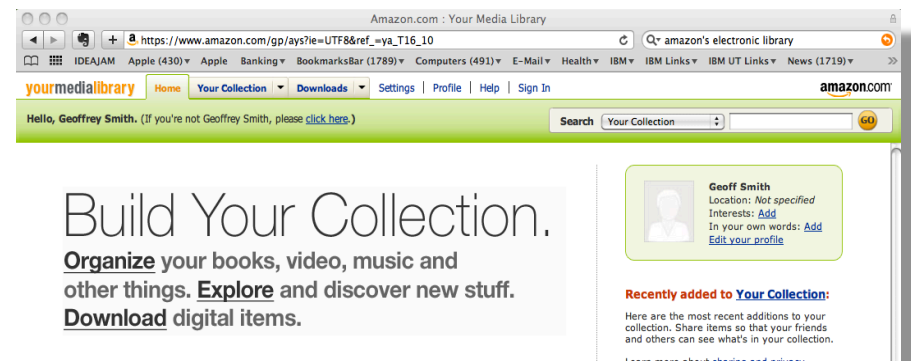
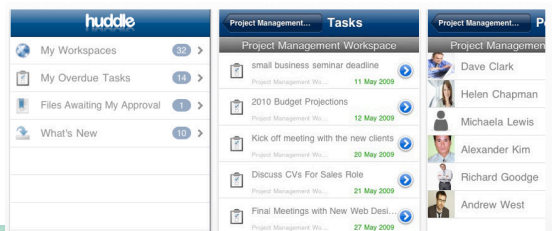


- **Cloud computing** is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, [servers](#), [storage](#), applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.<sup>[1]</sup>
- The concept of cloud computing fills a perpetual need of IT: a way to increase capacity or add capabilities on the fly without investing in new infrastructure, training new personnel, or licensing new software. Cloud computing encompasses any subscription-based or pay-per-use service that, in real time over the Internet, extends IT's existing capabilities.



## Have your own Cloud...

- Clouds aren't just for corporations any more.
- Amazon provides you with your own electronic library where you can archive books, music movies and more...
- Apple has Mobile Me which provides you with virtual disk space, the ability to synchronize mail, contacts, calendars, photos and more... across multiple devices.
- Evernote support a number of devices and lets you keep notes, pictures, web clips
- Microsoft's new PC ... the "Personal Cloud"
- Huddle App – network of secure workspaces where you can share files, manage projects, organize virtual meetings

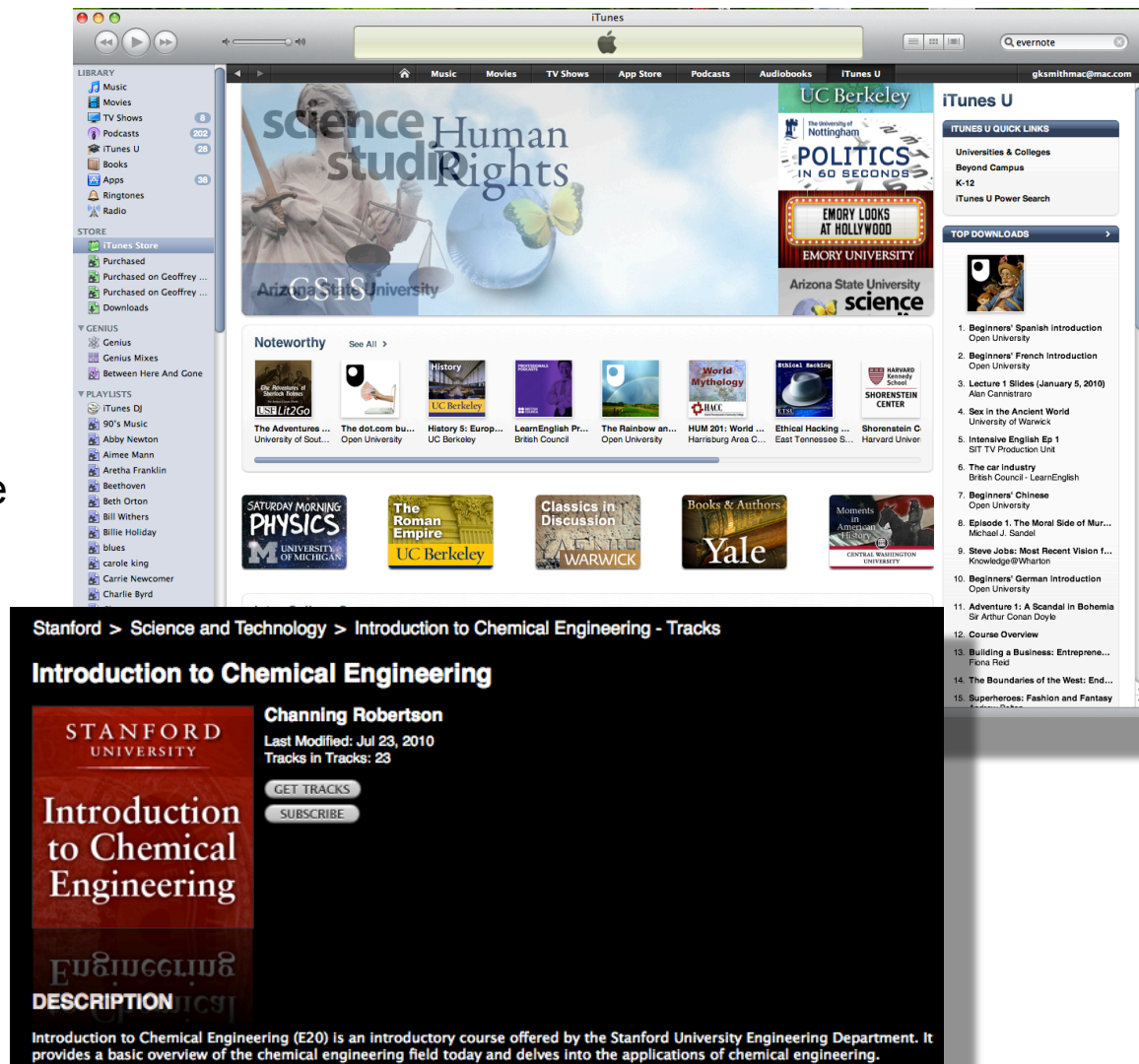


## Remember everything.

Use Evernote to save your ideas, things you see, and things you like. Then find them all on any computer, phone or device you use. For free.

## College Courses to Go...on iTunes U

- Take a refresher on Physics
- Learn a new language
- iPods, aren't just for music anymore...
- With the ubiquitous nature of portable devices and the adoption of POD and VOD casts have made take a course as easy as a click away.
- These courses are real college classes on a wide variety of subjects by a wide variety of universities ... most if not all FREE.
- They are available on iPhone, iPad, iPods, Apple TV, PCs anything capable of hosting iTunes material





## What the QR?

- You've probably seen these funny looking barcodes.
- Initially invented for tracking car parts, these codes are now being used extensively by companies to help sell products
- They are called Quick Response codes
- Almost all smart phones with cameras have apps that let you take a picture of the barcode to display text, contact information, connect to a wireless network or open a webpage in the phone browser.
- Audi, Macys and many others are using them extensively to link consumers to play videos that play on their phone's browsers.
- Some people have been creating personal QR codes to take you to a their Facebook, Google+ or other social website.

- For more information see



- Or if you are smartphone impaired, [http://en.wikipedia.org/wiki/QR\\_code](http://en.wikipedia.org/wiki/QR_code)

## Google Mobile - m.google.com

- Google offers a wide range of applications for mobile users – we will highlight just a couple



[Google Search app](#) [▶ Watch video](#)

Download Google Search app to your smartphone to search fast.



[Google Search](#)

Search Google from your phone, and never say "I don't know" again.



[Google Maps](#) [▶ Watch video](#)

Never carry a paper map again.



[Gmail](#) [▶ Watch video](#)

Get your email wherever you are.



[YouTube](#) [▶ Watch video](#)

Millions of videos right in your pocket.



[Google Voice](#) [▶ Watch video](#)

Have one phone number for life.



[Google Sync](#) [▶ Watch video](#)

Keep your Gmail, Calendar and Contacts in sync.



[Google Latitude](#) [▶ Watch video](#)

See your friends on a map.



[iGoogle](#) [▶ Watch video](#)

Get your personalized content anywhere, any time.



[Buzz](#) [▶ Watch video](#)

See what's going on nearby and post a message tagged with your location.



[Google Earth](#) [▶ Watch video](#)

Explore the world from the palm of your hand.



[Google Goggles](#) [▶ Watch video](#)

Use pictures to search the web.



[Google+](#)

Real-life sharing rethought for the web, wherever you are.



[Google Docs](#) [▶ Watch video](#)

View and edit your documents and spreadsheets from anywhere and at any time.



[Google Books](#) [▶ Watch video](#)

Take millions of books with you on the go.



[Blogger](#)

Keep your readers posted wherever you are.



[Google SMS](#)

Search by text message. Text 'help' to GOOGLE (466453) to use.



[Google Translate](#)

Translate text in more than 50 languages and speech in 15 languages.



[Picasa Web Albums](#)

View and share the photos in your Picasa account.



[Google Reader](#)

Keep up with your favorite blogs and newsfeeds, and share content with your friends. Star items you want to read later.



[Google News](#)

Read and search for the latest news from anywhere, at anytime.



[Google Calendar](#)

No syncing necessary. Set up mobile phone notifications.



[Google Tasks](#) [▶ Watch video](#)

Stay on top of your to do list with Google Tasks for mobile.



[Google Talk](#)

Stay connected to your Google Talk contacts right from your phone.

## Google Goggles Mobile

- Available Android **and now iPhone**
- Lets you search the web using a photo
- Scan a business card and add it to your address book
- Identify landmarks
- Learn the title of paintings or who painted it
- <http://www.google.com/mobile/goggles/#text>



Google Goggles

Use pictures to search the web. [▶ Watch a video](#)



### Google Goggles in action

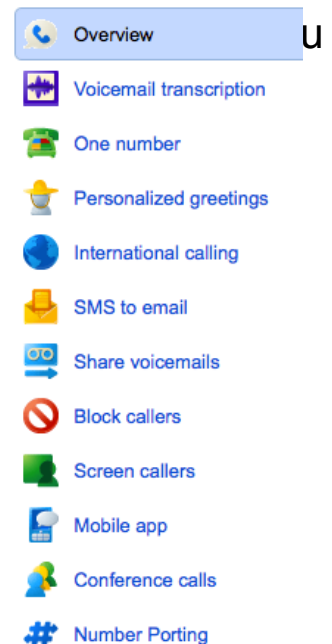
Click the icons below to see the different kinds of objects and places you can search for using Google Goggles.



## Google Voice Can Help You Keep in Touch



- One number that rings everywhere
- So if a friend has three numbers you don't need to call all three and leaving he or she doesn't need to call the right voicemail to get your message
- Free calls and text messages
- Transcribes voice mail and delivers it as a text message using the Google don't have to dial in to get your voicemail.
- Lets you reply to the person immediately with a free text message
- Set up separate voice mail boxes for work and personal use
- Easily block unwanted callers
- [Learn more: http://www.google.com/googlevoice/about.html](http://www.google.com/googlevoice/about.html)



## Solid State Drives and Hybrid Drives

40GB

\$87.99

Buy Now

60GB

\$117.99

Buy Now

115GB

\$197.99

Buy Now

240GB

\$417.99

Buy Now

480GB

\$859.99

Buy Now

- Are you tired of slow PC performance? Consider replacing your old laptop drive with a solid state one. That's right, it's like having 30GB or more of memory in your laptop, but it when you power off your laptop, the content doesn't go away. When you look for them, just Google "laptop ssd" Are now becoming more affordable.
- Many vendors and recently Intel started making them.
- Great for mobile computing because:
  - There are no moving parts
  - They are lighter than traditional hard drives
  - They use less power and extend battery life
  - But best of all, they will make your machine wicked fast!
  - Breathes new life into an older machine.
- If SSD is too pricey?
- You might consider a hybrid drive.
  - Hybrids combine traditional 7200RPM drives with a memory cache
  - They provide near SSD performance for a fraction of the price
  - Typical cost for a 500GB hybrid drive is in a little over a hundred bucks



## Just call me - Video calls for everyone

- Video chat is available for Android, iPhone, Blackberry,
- Skype, it's not just for laptops anymore. Skype has apps for iPhone and Android, so if your phone has wireless capability and are some place where wireless is available, use Skype to make the call instead of using your minutes and if your device has a camera, why not video conference?
- You can show folks your new home improvements, grandparents can see how their grand kids are doing.



## More toys on their way ...

- Coming soon
  - Motorola Droid Bionic 4G
  - iPhone 5 with iOS 5
  - BlackBerry Phones with BlackBerry OS 7
  - Windows 7 Phones with “Mango” Review
  - Phones with Google’s Android “Gingerbread”
  - Rumors:
    - An iPad 2 HD
    - A revamp of the iPod line



[http://www.cnet.com/8301-17918\\_1-20072492-85/windows-phone-mango-hands-on-review/](http://www.cnet.com/8301-17918_1-20072492-85/windows-phone-mango-hands-on-review/)



## Google's Honeycomb

**Honeycomb** is the next version of the Android platform, designed from the ground up for devices with larger screen sizes, particularly tablets.



[http://www.youtube.com/watch?v=p4mbz\\_bzPIs&feature=player\\_embedded](http://www.youtube.com/watch?v=p4mbz_bzPIs&feature=player_embedded)



## Learn More About It

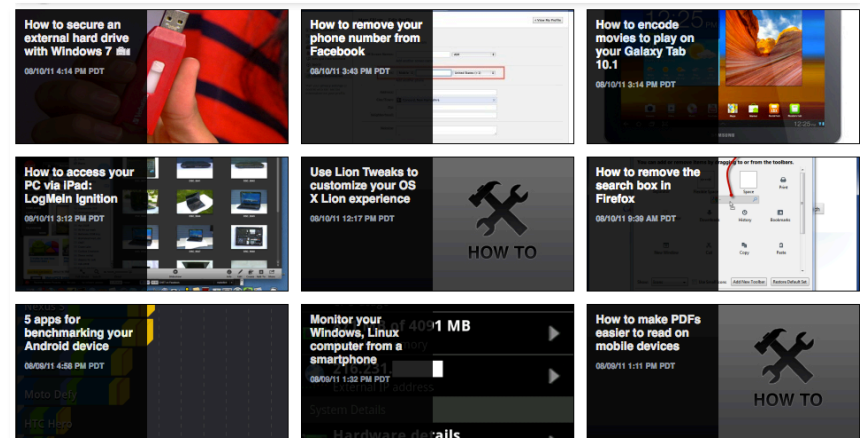
- There are many articles on the web on all of these technologies. Wikis and specifically, Wikipedia have content that gets updated fairly regularly as new technologies and devices emerge.



- WIRED magazine has a How-To-Wiki
- [http://howto.wired.com/wiki/Main\\_Page](http://howto.wired.com/wiki/Main_Page)
- [Activate Find My iPhone for iOS 4](#)
- [Avoid International Roaming Charges](#)
- [Chat With an Integrated Webcam](#)
- [Encrypt Your Thumb Drive](#)
- [Get Your Music Off of Your iPod](#)
- [Get the Most Out of Google Voice](#)
- [Go Hands-Free in the Car](#)



- <http://howto.cnet.com>



Thank You and Happy Computing!

