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Cyber Crews Association



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ISSUE

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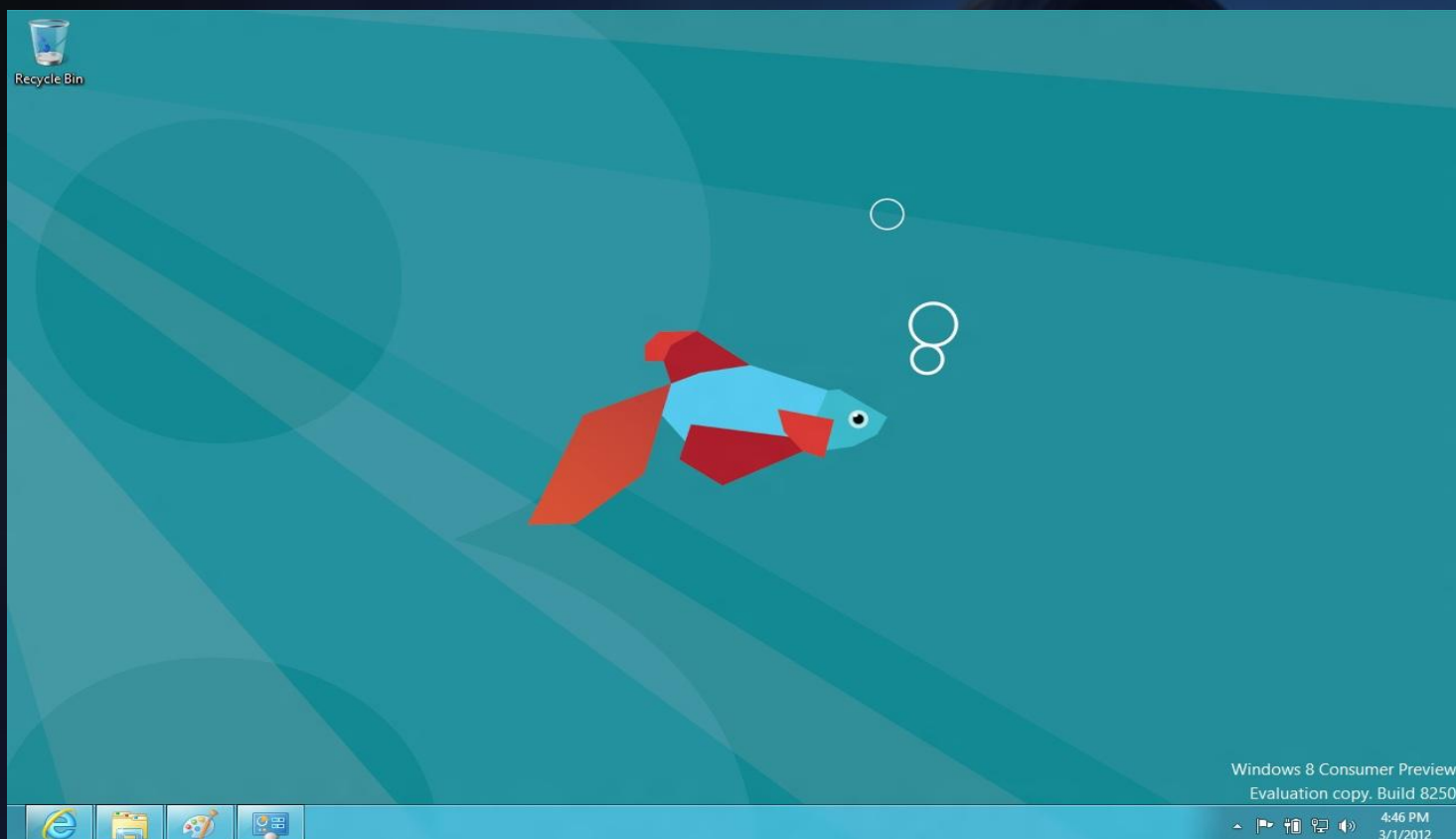
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Windows 8

Windows 8 is an operating system produced by Microsoft for use on personal computers, including home and business desktops, laptops, tablets, and home theater PCs.



It is part of the Windows NT family of operating systems.

Windows NT

Windows NT is a family of operating systems produced by Microsoft.

Preview version

During its development and test phases, Microsoft released three pre-release versions they are

1. Developer Preview : **September 13, 2011**
2. Consumer Preview: **February 29, 2012**
3. Release Preview : **May 31, 2012**

Full version:

Full version of Windows 8 was release in October 26, 2012.

Features:

- ✓ Start screen
- ✓ Internet Explorer 10
- ✓ USB 3.0
- ✓ Windows Defender



Start screen:

Start screen is with touch option and it is in 3D visualization.



Internet Explorer 10

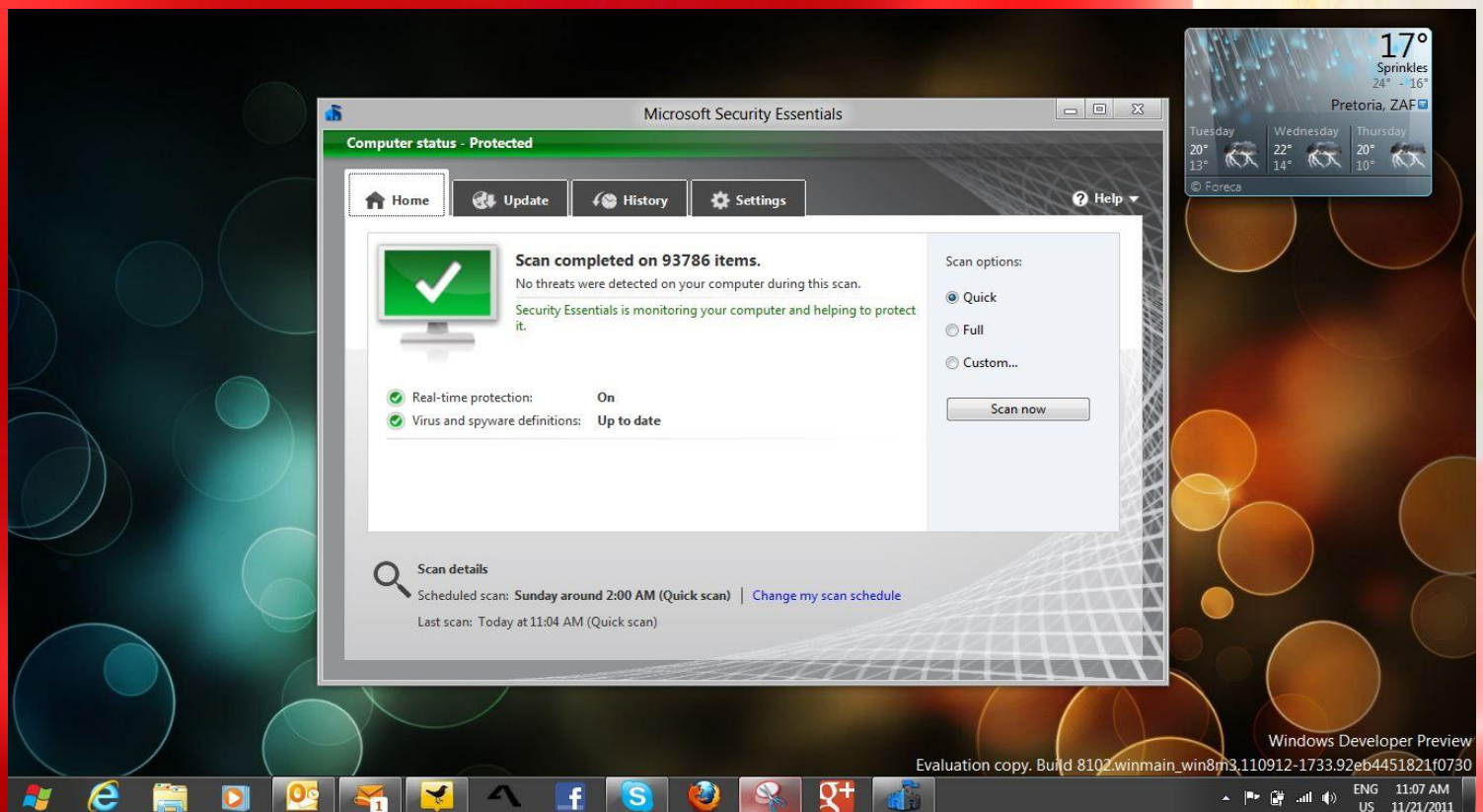
Windows Internet Explorer 10 (IE10) is the next version of Internet Explorer currently being developed by Microsoft. Internet Explorer 10 was first announced on 12 April 2011 at the MIX 11 conference in Las Vegas.

USB 3.0

USB 3.0 is the second major revision of the Universal Serial Bus (USB) standard for computer connectivity. USB is not a true bus, meaning only the root hub sees every signal on the bus.

Windows Defender

Windows Defender that have malware scanner.



Malware, short for malicious software, is software used or created to disrupt computer operation, gather sensitive information, or gain access to private computer systems. It includes computer viruses, worms, Trojan horses, spyware, adware, and other malicious programs.

Availability of Windows 8

Windows 8 is available in four major editions:

- * Windows 8
- * Windows 8 Pro
- * Windows 8 Enterprise
- * Windows RT

Hardware requirements

Architecture	IA-32 (32-bit)	x86-64 (64-bit)
Processor	1 GHz (with PAE, NX and SSE2 support) ^[64]	
Memory (RAM)	1 GB	2 GB
Graphics Card	DirectX 9 graphics device with WDDM 1.0 or higher driver	
Storage	20 GB	

Cost:

Windows 8 Price: \$100 – \$250 (For all versions).

Tablet:

Windows 8 is also available for tablet computers.





UBUNTU

Ubuntu (Operating System)

Ubuntu is a computer operating system based on the Debian Linux distribution and distributed as free and open source software.

Debian is a computer operating system composed of software packages released as free and open source software primarily under the GNU General Public License along with other free software licenses. Debian GNU/Linux, which includes the GNU OS tools and Linux kernel, is a popular and influential Linux distribution.



It is named after the Southern African philosophy of Ubuntu ("humanity towards others"). Ubuntu is designed primarily for use on personal computers, although a server edition also exists. Ubuntu is sponsored by the UK-based company Canonical Ltd., owned by South African entrepreneur Mark Shuttleworth.

Canonical Ltd. is a private company founded (and funded) by South African entrepreneur Mark Shuttleworth to market commercial support and related services for Ubuntu Linux and related projects.

HISTORY

Ubuntu's first release was on 20 October 2004. Since then, Canonical has released new versions of Ubuntu every six months with commitment to support each release for eighteen months by providing security fixes, patches to critical bugs and minor updates to programs.

GNOME

GNOME is a desktop environment and graphical user interface that runs on top of a computer operating system. It is composed entirely of free and open source software.

GNOME (the former default desktop) offers support for more than 46 languages. Ubuntu can also run many programs designed for Microsoft Windows (such as Microsoft Office), through Wine or using a Virtual Machine (such as VMware Workstation or VirtualBox).

SYSTEM REQUIREMENTS

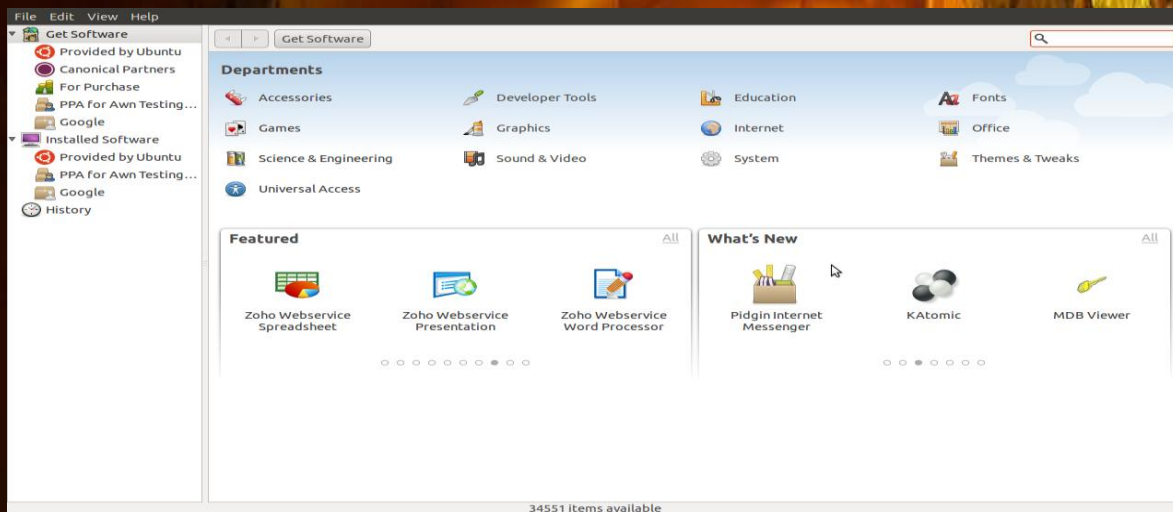
Current Minimum Requirements	Server	Desktop
Processor (x86) with the i686 instruction set	300 MHz	700 MHz
Memory (RAM)	128 MB	384 MB
Hard Drive (free space)	1 GB	5 GB
Monitor Resolution	640×480	1024×768

The Ubuntu OS can run directly from the CD (although this is usually slower than running Ubuntu from an HDD), allowing a user to "test-drive" the OS for hardware compatibility and driver support. Ubuntu and Kubuntu can be booted and run from a USB Flash drive (as long as the BIOS supports booting from USB), with the option of saving settings to the flashdrive.

AVAILABILITY OF THIRD-PARTY SOFTWARE



Ubuntu has a certification system for third party software. Some third-party software that does not limit distribution is included in Ubuntu's multiverse component.



The package `ubuntu-restricted-extras` additionally contains software that may be legally restricted, including support for MP3 and DVD playback, Microsoft TrueType core fonts, Sun's Java runtime environment, Adobe's Flash Player plugin, many common audio/video codecs, and unrar, an unarchiver for files compressed in the RAR file format. Additionally, third party application suites are available for purchase through the Canonical web-based store, including software for DVD playback and media codecs.

3D INTERNET

INTERNET:

The Internet is a global system of interconnected computer networks that use the standard Internet protocol suite to serve billions of users worldwide.

In 1982 the Internet Protocol Suite (TCP/IP) was standardized and the concept of a world-wide network of fully interconnected TCP/IP networks called the Internet was introduced again in 1986 when NSFNET provided access to supercomputer sites in the United States from research and education organizations

IT IS A NETWORK OF NETWORKS



3D:

Three-dimensional space is a geometric 3-parameters model of the physical universe (without considering time) in which we exist. These three dimensions are commonly called length, width, and depth (or height).

3D INTERNET:

“The Internet’s future will be in 3dimensional”

The combination of internet and 3d space is 3D INTERNET. The web technology in the form of three dimension is WEB 3.0.

WEB 3.0 = 3D INTERNET

In Web 2.0 we have the possibility to participate in the internet with blogs, Wikipedia, You tube, Facebook, Digg or Myspace. With Web 3.0 we will do the same thing – but in 3D! The leap from Community Web 2.0 to 3D Web 3.0 will be a quantum jump, which can be compared to the step from book to televisions.

3D INTERNET TECHNOLOGIES INCLUDE:

- **Artificial intelligence**
- **Cognitive architecture**
- **Composite applications**

HOW 3D INTERNET IS GOING TO BE ?

1) Information the biggest benefit offered by the Internet is information. You can find any type of information on any subject with the help of the search engines like Yahoo and Google.

2) Communication The primary goal of the Internet is communication. By sending an e-mail, we can contact a person who is physically present thousand miles away within the fraction of a second's time.

3) Entertainment Internet functions as a popular medium of entertainment. A wide variety of entertainment including video games, music, movies, chat room, news and others can be accessed through the Internet.

4) E-commerce is the idea that is implemented for any form of commercial strategy or business transactions that entails transmission of data from one corner of the world to another. E-commerce has become a fantastic option through which you can shop anything.

5) Formation of communities Internet helps in formation of communities or forums. Online chatting like SKYPE etc.,

This are the all the features that going to be available in 3D INTERNET as like in INTERNET mean while it also going to overcome the disadvantages of INTERNET like Spamming, Pornography, Virus.



FOURTH GENERATION

In telecommunications, 4G is the fourth generation of cell phone mobile communications standards. It is a successor of the third generation (3G) standards. A 4G system provides mobile ultra-broadband Internet access, for example to laptops with USB wireless modems, to smart phones, and to other mobile devices. Conceivable applications include amended mobile web access, IP telephony, gaming services, high-definition mobile TV, video conferencing and 3D television.

TECHNICAL DEFINITION

4G is short for Fourth (4th) Generation Technology. 4G Technology is basically the extension in the 3G technology with more bandwidth and services offers in the 3G. But at this time nobody exactly knows the true 4G definition. If the Internet Protocol (IP) multimedia sub-system movement achieves what it going to do, nothing of this possibly will matter. WiMAX or mobile structural design will become progressively more translucent, and therefore the acceptance of several architectures by a particular network operator ever more common.

HISTORY

- On 10 April 2012, Bharti Airtel launched 4G [LTE] in Kolkata, first in India which resulted India to be one of the first countries in the world to deploy the cutting edge technology commercially.
- On 20 May 2012, Azerbaijan's biggest mobile operator Azercell launched 4G [LTE].

COMPARISON CHART

IMPROVE THIS CHART	3G	4G
Data Throughput	Up to 3.1mbps	Practically speaking, 3 to 5 mbps but potential estimated at a range of 100 to 300 mbps
Peak Upload Rate	50 Mbit/s	500 Mbit
Peak Download Rate	100 Mbit/s	1 Gbit/s
Switching Technique	packet switching	packet switching, message switching
Network Architecture	Wide Area Cell Based	Integration of wireless LAN and Wide area.
Services And Applications	CDMA 2000, UMTS, EDGE etc	Wimax2 and LTE-Advance
Forward error correction (FEC)	3G uses Turbo codes for error correction.	Concatenated codes are used for error corrections in 4G.
Frequency Band	1.8 – 2.5GHz	2 – 8GHz

Features

UPPER LAYER ISSUES WITH 4G

4G will be a pocket based network. As it will carry internet traffic along with voice, it should be able to provide an altogether different level of quality of service. There are other issues as well. Some of them are discussed below.

MANAGEMENT OF MOBILITY

Management of mobility comprises of paging, local registration and handover. The MT should work in such a way that it should access all kinds of services at any given place. A flawless service is also essential. The techniques for handover should be made in such a manner that they can make optimum use of the network available.

CONTROL OF CONGESTION

Control of congestion is going to be one more of the serious subjects in the optimum performance of 4G services. The 2 essential steps that could be taken to prevent congestion are avoiding congestion and detection of congestion if it happens.

QUALITY OF SERVICE

4G services are supposed to provide real time and internet similar services. These services could be categorized into 2 distinct parts.



Guaranteed services and better than best services. Because of the provision of these services, 4G can be classified into the high quality of services category

KEY FEATURES :

The following key features can be observed in all suggested 4G technologies:

- **MIMO:** To attain ultra high spectral efficiency by means of spatial processing including multi-antenna and multi-user MIMO
- Frequency-domain-equalization, for example *multi-carrier modulation (OFDM)* in the downlink or *single-carrier frequency-domain-equalization (SC-FDE)* in the uplink: To exploit the frequency selective channel property without complex equalization
- Frequency-domain statistical multiplexing, for example (OFDMA) or (single-carrier FDMA) (SC-FDMA, a.k.a. linearly precoded OFDMA, LP-OFDMA) in the uplink: Variable bit rate by assigning different sub-channels to different users based on the channel conditions
- Turbo principle error-correcting codes: To minimize the required SNR at the reception side
- Channel-dependent scheduling: To use the time-varying channel
- Link adaptation: Adaptive modulation and error-correcting codes

TOP 3 IT COMPANIES



Type	Public
Traded as	BSE: 532540 NSE: TCSBSE SENSEX Constituent
Industry	IT services, IT consulting
Founded	1968
Founder(s)	JRD Tata
Headquarters	Mumbai, Maharashtra, India
Area served	Worldwide
Chairman	Ratan Tata
CEO & MD	N. Chandrasekaran
Services	IT, business consulting and outsourcing
Services Revenue	▲US\$ 10.17 billion (2012) Profit ▲US\$ 2.2 billion
Employees	243,545 (2012)
Limited	Parent Tata Group Subsidiaries CMC Limited



Ratan Tata



N. Chandrasekaran

Website : www.tcs.com



Infosys®

Type

Public

Traded as

BSE: 500209
NSE: INFY
NASDAQ: INFY
BSE SENSEX Constituent



N.R.Narayana Murthy

Industry

IT services, IT consulting

Founded

1981

Founder(s)

N. R. Narayana Murthy

Headquarters

Bangalore, Karnataka
India Area served Worldwide



S.D. Shibulal

Chairman

N. R. Narayana Murthy

CEO

S.D. Shibulal

Services

IT, business consulting and outsourcing services

Revenue

▲US\$ 6.99 billion (2012) Profit ▲US\$ 1.71 billion

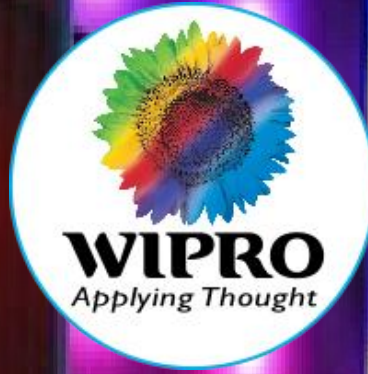
Employees

151,151 (2012)

Divisions

Infosys BPO, Infosys China

Website : www.infosys.com



Type

Public

Traded as

BSE: 507685
NSE: WIPRO
NYSE: WIT
BSE SENSEX Constituent



Azim Premji

Industry

IT services, IT consulting

Founded

December 1945

Founder(s)

Mohamed Hashamf Premji

Headquarters

Bangalore, Karnataka, India

Area served

Worldwide Key people

Chairman

Azim Premji



T K Kurien

Ceo

T K Kurien

Services

IT, business consulting and outsourcing

Revenue

▲US\$ 7.30 billion (2012) Total assets ▲ 135,920

Employees

▲US\$ 5.60 billion (2012)

Divisions

Wipro Consumer Care & Lighting

Limited

Wipro Infrastructure Engineering
Wipro GE Medical Systems Limited
Wipro Technology Services Limited

Website : www.wipro.com



SEA MONKEY

Sea Monkey is a free and open source cross-platform Internet suite. It is the continuation of the former Mozilla Application Suite, based on the same source code. Core Mozilla project source code is licensed under a disjunctive tri-license that gives the choice of one of the three following sets of licensing terms: Mozilla Public License, version 1.1 or later, GNU General Public License, version 2.0 or later, GNU Lesser General Public License, version 2.1 or later.

COMPONENTS

Sea Monkey consists of a web browser (SeaMonkey Navigator), which is a descendant of the Netscape family, an e-mail and news client program (SeaMonkey Mail & Newsgroups, which shares code with Mozilla Thunderbird), an HTML editor (SeaMonkey Composer) and an IRC client (ChatZilla). The software suite supports skins. It comes with two skins in the default installation, Modern and Classic.

HISTORY

The first version of SeaMonkey, 1.0 Alpha, was released on September 15, 2005, followed by Sea Monkey 1.0 stable released on January 30, 2006. 1.5.0 2.12 Beta 1 July 21, 2012 First Beta release. 2.12 Beta 2 July 27, 2012 Second Beta release.



SYSTEM REQUIREMENTS

Windows

OPERATING SYSTEMS

- Windows XP Service Pack 2
- Windows Vista
- Windows 7

MINIMUM HARDWARE

- Pentium 233 MHz (*Recommended: Pentium 500MHz or greater*)
- 128 MB RAM
- 50 MB of free hard drive space

MAC

OPERATING SYSTEMS

- Mac OS X 10.5
- Mac OS X 10.6
- Mac OS X 10.7 (starting with SeaMonkey 2.3)

MINIMUM HARDWARE

- Macintosh computer with an Intel processor.
- 200 MB of free hard drive space.

TABLET COMPUTER

TABLET COMPUTER

A Tablet Computer, or a Tablet, is a mobile computer into a flat touch screen and primarily operated by touching the screen rather than using a physical keyboard

The standard form of tablet does not have an integrated keyboard but may be connected to one with a wireless link or a USB port.

Universal Serial Bus (USB) USB is not a true bus, meaning only the root hub sees every signal on the bus.



In 2012 31% of U.S. Internet users were reported to have a tablet, which was used mainly for consuming published content such as video and news

Features of tablet computers in 2012

- Wireless mobile browser functions (using 2G,3G,4G or WiFi).
- E-mail and social media devices.
- Potential cell phone functions (Messaging, video calling etc.,).
- GPS satellite navigation.
- Still and video camera functions, photo and video viewing and editing.
- E-book reading (including electronic versions of periodicals).
- Downloadable apps (games, education, utilities).
- Portable media player function.

Other main features:

- 1. Touch user Interface**
- 2. Storage drive**
- 3. Wireless**
- 4. 3D**

1. TOUCH USER INTERFACE

A key and common component among tablet computers is touch input. This allows the user to navigate easily and intuitively and type with a virtual keyboard on the screen.

2. STORAGE DRIVE

Large tablets use storage drives similar to laptops, while smaller ones tend to use drives similar to MP3 players or have on-board flash memory. They also often have ports for removable storage such as Secure Digital cards. Due to the nature of the use of tablets, solid-state memory is often preferable due to its better resistance to damage during movement.

3. WIRELESS

Because tablets by design are mobile computers, wireless connections are less restrictive to motion than wired connections. Wi-Fi connectivity has become ubiquitous among tablets. Bluetooth is commonly used for connecting peripherals and communicating with local devices in place of a wired USB connection.

4. 3D

Three-dimensional space is a geometric 3-parameters model of the physical universe (without considering time) in which we exist. These three dimensions are commonly called length, width, and depth (or height).

ADVANTAGES

- Usage in environments not conducive to a keyboard and mouse such as lying in bed, standing, or handling with a single hand.
- Lighter weight, lower power models can function similarly to dedicated E-book readers like the Amazon Kindle.
- Touch environment makes navigation easier than conventional use of keyboard and mouse or touch pad in certain contexts such as image manipulation, musical, or mouse oriented games and for people with certain disabilities.
- Digital painting and image editing are more precise and intuitive than painting or sketching with a mouse.
- The ability for easier or faster entry of diagrams, mathematical notations, and symbols.
- Allows, with the proper software, universal input, independent from different keyboard localizations.
- Some users find it more direct and pleasant to use a stylus, pen or finger to point and tap on objects, rather than use a mouse or touchpad, which are not directly connected to the pointer on screen.
- Tablets typically have longer battery life than laptops or net books.
- The virtual keyboard is lit, thus more suitable to dark places.



GINGERBREAD

The Android 2.3 platform introduces many new and exciting features for users and developers. This document provides a glimpse at some of the new features and technologies in Android 2.3. For detailed information about the new developer APIs, see the Android 2.3 version notes.

HISTORY

On December 6, 2010 Android 2.3 platform introduces new version of os that is ginger bread.

FEATURES

- ✓ Updated user interface design with increased simplicity and speed.
- ✓ Support for extra-large screen sizes and resolutions (WXGA and higher).
- ✓ Native support for SIP VOIP internet telephony.
- ✓ Faster, more intuitive text input in virtual keyboard, with improved accuracy, better suggested text and voice input mode.
- ✓ Enhanced copy/paste functionality, allowing users to select a word by press-hold, copy, and paste.
- ✓ Support for Near Field Communication (NFC), allowing the user to read an NFC tag embedded in a poster, sticker, or advertisement.
- ✓ New audio effects such as reverb, equalization, headphone virtualization, and bass boost.

- ✓ **New Download Manager, giving users easy access to any file downloaded from the browser, email, or another application.**
- ✓ **Support for multiple cameras on the device, including a front-facing camera, if available.**
- ✓ **Support for WebM/VP8 video playback, and AAC audio encoding.**
- ✓ **Improved power management with a more active role in managing apps that are keeping the device awake for too long.**
- ✓ **Enhanced support for native code development.**



NEW USER FEATURES

- **UI refinements for simplicity and speed.**
- **Faster, more intuitive text input.**
- **One-touch word selection and copy/paste.**
- **Downloads management.**
- **Control over applications.**

MOBILES WHICH HAS GINGER BREAD

Nokia 603 Symbian OS : \$ 238

Nokia 700 with Symbian OS : \$ 246



Email

address@gmail.com

Internet call

6544568@sipprovider.com

SECURITY

Android applications run in a sandbox, an isolated area of the operating system that does not have access to the rest of the system's resources, unless access permissions are granted by the user when the application is installed. Before installing an application, the Play Store displays all required permissions. A game may need to enable vibration, for example, but should not need to read messages or access the phonebook. After reviewing these permissions, the user can decide whether to install the application. The sandboxing and permissions system weakens the impact of vulnerabilities and bugs in applications, but developer confusion and limited documentation has resulted in applications routinely requesting unnecessary permissions, reducing its effectiveness. There complexity of inter-application communication implies Android may have opportunities to run unauthorized code.



Several security firms have released antivirus software for Android devices, in particular, Lookout Mobile Security, AVG Technologies, Avast, F-Secure, Kaspersky, McAfee and Symantec. This software is ineffective as sandboxing also applies to such applications, limiting their ability to scan the deeper system for threats.

Nero11

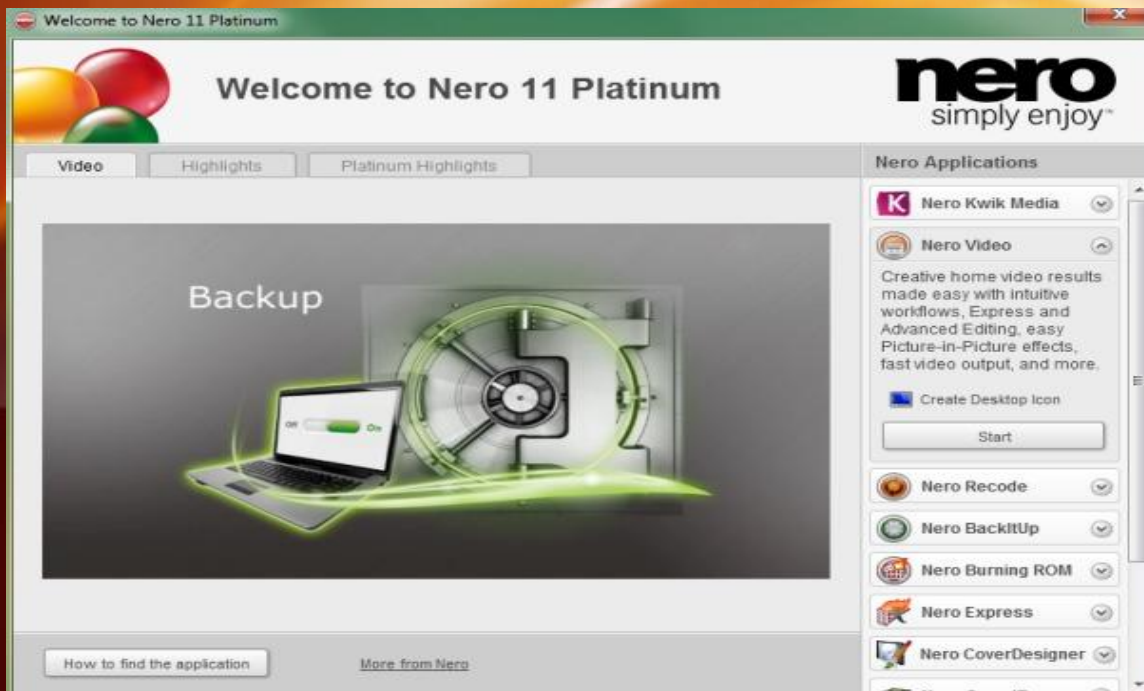
Nero Multimedia Suite

Nero Multimedia Suite is a popular burning and editing software suite for Microsoft Windows by Nero AG.



Features of Nero 11

- ❖ Disc authoring
- ❖ Video authoring
- ❖ Data backup
- ❖ Audio editing



Disc authoring

- ✓ **Nero Burning ROM:** A well-known optical disc authoring program by Nero AG and one of its first products. The product is available separately.
- ✓ **Nero Express:** a simplified incarnation of Nero Burning ROM targeted at beginners.
- ✓ **Nero CoverDesigner:** enables users to design and print disc covers.
- ✓ **Nero BurnRights:** enables administrators to assign required drive access rights to other users. Not included in the Nero 11, is part of Nero Free Tools.
- ✓ **Nero DiscSpeed:** a disc speed measurement and performance diagnostics tool. Not included in the Nero 11, is part of Nero Free Tools.
- ✓ **Nero Info Tool:** helps extracting useful system information related to disc authoring. Not Included in the Nero 11, is part of Nero Free Tools.
- ✓ **Nero DiscCopy Gadget:** a gadget that allows users to perform simple disc burning operations . Not included in the Nero 11, is part of Nero Free Tools.
- ✓ **Nero RescueAgent:** helps recovering files from damaged or partially unreadable media and restoring files that were accidentally deleted.

Video authoring

Nero Video by Nero 11: The product is available separately video editing software tool capable of mixing video clips and authoring DVDs. The DVDs produced with the software are compatible with a large number of DVD Players.

Nero Recode: It converts video files and non-copyrighted video DVDs into Nero Digital format, dramatically reducing their size while maintaining the quality. Also allows recoding of non-copyrighted video DVDs to fit onto a smaller DVD format. The product is available separately.

Data backup

Nero BackItUp: It is a system backup utility. It was integral part of Nero 6, 7,8,10 and 11 suites. With the introduction of Nero 9 Nero BackItUp 4 became a standalone backup product, while its successor, Nero BackItUp 5, was the main application of Nero BackItUp & Burn.

Audio editing

- **Nero Wave Editor:** audio editing tool capable of recording, trimming, filtering, mixing and exporting audio.
- **Nero SoundTrax:** multi-track audio mixing tool capable of creating and exporting audio mixes.



WiMAX (Worldwide Interoperability for Microwave Access)

It is a wireless communications standard designed to provide 30 to 40 megabit-per-second data rates, with the 2011 update providing up to 1 Gbit/s for fixed stations.

History

The name "WiMAX" was created by the WiMAX Forum, which was formed in June 2001 to promote conformity and interoperability of the standard.

The forum describes WiMAX as "a standards-based technology enabling the delivery of last mile wireless broadband access as an alternative to cable and DSL"

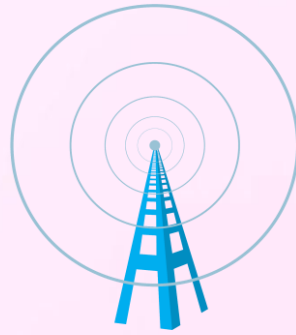
Uses

- ❖ **Providing portable mobile broadband connectivity across cities and countries through a variety of devices.**
- ❖ **Providing a wireless alternative to cable and digital subscriber line (DSL) for "last mile" broadband access.**
- ❖ **Providing data, telecommunications (VoIP) and IPTV services (triple play).**
- ❖ **Providing a source of Internet connectivity as part of a business continuity plan.**
- ❖ **Smart grids and metering**

Connectivity

Devices that provide connectivity to a WiMAX network are known as the subscriber station (SS).

Portable units include handsets (similar to cellular smartphones); PC peripherals (PC Cards or USB dongles); and embedded devices in laptops, which are now available for Wi-Fi services.



In addition, there is much emphasis by operators on consumer electronics devices such as Gaming consoles, MP3 players and similar devices. WiMAX is more similar to Wi-Fi than to other 3G cellular technologies.

Comparison Table:

Feature	WiMax (802.16a)	Wi-Fi (802.11b)	Wi-Fi (802.11a/g)
Primary Application	Broadband Wireless Access	Wireless LAN	Wireless LAN
Frequency Band	Licensed/Unlicensed 2 G to 11 GHz	2.4 GHz ISM	2.4 GHz ISM (g) 5 GHz U-NII (a)
Channel Bandwidth	Adjustable 1.25 M to 20 MHz	25 MHz	20 MHz
Half/Full Duplex	Full	Half	Half
Radio Technology	OFDM (256-channels)	Direct Sequence Spread Spectrum	OFDM (64-channels)
Bandwidth Efficiency	≤ 5 bps/Hz	≤ 0.44 bps/Hz	≤ 2.7 bps/Hz
Modulation	BPSK, QPSK, 16-, 64-, 256-QAM	QPSK	BPSK, QPSK, 16-, 64-QAM
FEC	Convolutional Code Reed-Solomon	None	Convolutional Code
Encryption	Mandatory- 3DES Optional- AES	Optional- RC4 (AES in 802.11i)	Optional- RC4 (AES in 802.11i)
Mobility	Mobile WiMax (802.16e)	In development	In development
Mesh	Yes	Vendor Proprietary	Vendor Proprietary

Shortcuts

<i>S. No</i>	<i>Shortcut Key</i>	<i>Used for</i>	<i>Description</i>
1	Ctrl + Shift + A	All Caps	Makes the selection all capitals (toggle).
2	Shift+F3	Change Case	Changes the case of the letters in the selection.
3	Ctrl + F10	Doc Maximize	Enlarges the active window to full size.
4	Ctrl+F2	File Print Preview	Displays full pages as they will be printed.
5	Ctrl+Shift+F	Font	Activates the Fonts listbox on the formatting toolbar.
6	Ctrl + Shift + H	Hidden	Makes the selection hidden text (toggle).
7	Alt I, C	Insert Caption	Inserts a caption above or below a selected object.
8	Ctrl + L	Left Para	Aligns the paragraph at the left indent.
9	Ctrl + F11	Lock Fields	Locks the selected fields to prevent updating.
10	F11	Next Field	Moves to the next field.
11	Alt + F7	Next Mis-spelling	Find next spelling error.
12	Alt + down arrow	Next Object	Moves to the next object on the page.
13	Ctrl + F6	Next Window	Switches to the next document window, equivalent to selecting a document from the Window menu.
14	Ctrl+Shift+N	Normal Style	Applies the Normal style.
15	Ctrl + 0	Open or Closeup-Para	Sets or removes extra spacing above the selected paragraph.
16	Shift + Tab	Prev Cell	Moves to the previous table cell.
17	Ctrl + *	Show All	Shows/hides all nonprinting characters.
18	Alt + Shift + A	Show All Headings	Displays all of the heading levels and the body text in outline view.
19	Ctrl + Shift + K	Small Caps	Makes the selection small capitals (toggle).

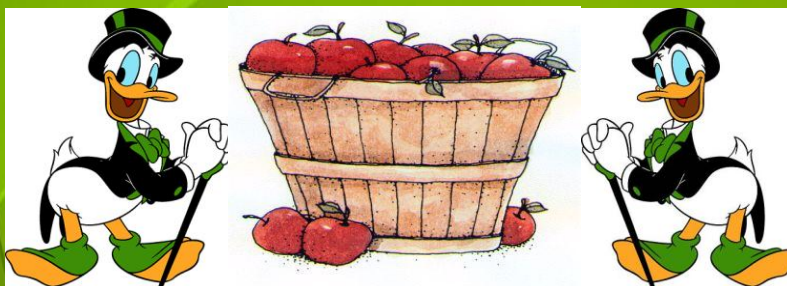


MIND PUNCH



1. Apples and Friends

The Puzzle:



You have a basket containing ten apples. You have ten friends, who each desire an apple. You give each of your friend's one apples.

After a few minutes each of your friends has one apple each, yet there is an apple remaining in the basket. How?

2. Breaking Up a Chocolate Bar

The Puzzle:



How many steps are required to break an $m \times n$ bar of chocolate into 1×1 pieces?

You can break an existing piece of chocolate horizontally or vertically.

You cannot break two or more pieces at once (so no cutting through stacks).

3. Getting 24 from 8,8,3,3

The Puzzle:



How can I get the answer 24 by only using the numbers 8,8,3,3 ?

You can use add, subtract, multiply, divide, and parentheses.

4. Birthday Puzzle

The Puzzle:



When asked about his birthday, a man said:

"The day before yesterday I was only 25 and next year I will turn 28."

This is true only one day in a year. When was he born?

5. Eight eights Puzzle

The Puzzle:



Using 8 exactly eight times to make a 1000.

You can use any mathematical symbols.

6. Number Continues This Sequence

The Puzzle:



Which number continues this sequence?



1. The Solution . . .

You give an apple each to your first nine friends, and a basket with an apple to your tenth friend.

Each friend has an apple, and one of them has it in a basket.

2. The Solution . . .

You need $mn - 1$ steps.

By breaking an existing piece horizontally or vertically, you merely increase the total number of pieces by one.

You already have 1 piece, so need $mn - 1$ steps to get to mn pieces.

3. The Solution . . .

$$\begin{aligned} & 8 / (3 - (8/3)) \\ & = 8 / (1/3) \\ & = 24 \end{aligned}$$

4. The Solution . . .

He was born on December 31st and spoke about it on January 1st.

5. The Solution . . .

$$888 + 88 + 8 + 8 + 8$$

6. The Solution . . .

48

Numbers advance by 2, 4, 8 and 16



The Editorial Board Expresses its
sincere gratitude to all those who
are responsible, either by being
on the stage or behind the screen