



**VIDYA VARDHINI'S COLLEGE OF  
ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

# **LOGIN** **To Explore...**

**Fourth Edition**

**2013**



# VIDYAVARDHINI'S COLLEGE OF ENGINEERING AND TECHNOLOGY I-TECH COMMITTEE



**Principal**  
**Dr. A.V Bhonsale**

**HEAD OF DEPARTMENT**  
**Prof. Chandan Kolvankar**

**STAFF INCHARGE**  
**Prof. Anagha Patil**  
**Prof. Mehul Khandehdia**

**CHAIRPERSON**  
**Ms. Shruti Meshram**

**DEPUTY HEAD**  
**Ms. Vishruti Mhatre**

**TREASURER**  
**Ms. Leena Sonkusare**  
**Ms. Sneha Raman**

**CHIEF EDITOR**  
**Ms. Sharvari Raut**

**GRAPHICS DESIGNING HEAD**  
**Ms. Madhavi Dhone**

**SUB-EDITOR**  
**Ms. Aparna Nair, Mr. Sumesh Valanju,**  
**Mr. Shakir Sathe**

**GRAPHICS DESIGNING TEAM**  
**Ms. Darshana Sakhiya, Mr. Prasad Diwan,**  
**Ms. Shivaranjini Bhat, Mr. Sushant Shelte**

**PR TEAM**  
**Mr. Gopal Pai, Mr. Prasad Diwan**  
**Mr. Shakir Sathe**





## From HOD'S Desk

I am immensely proud to present to you yet another edition of VCET Information Technology's departmental magazine, "LOGIN... To Xplore". The magazine you are holding in your hands right now is the epitome of the zealous activities and profound involvement of the students as well as the staff of the Information Technology Department.

This magazine will take you through a thrilling journey of the fast paced world of changing and emerging technologies thereby acquainting you readers with the hitherto unknown marvels of the world of technology. For third and fourth year students, it will provide the

invaluable inside into what to be ready for, what skill-sets are essential in the industry and thus how to prepare themselves for employment.

The department staff predominantly the Staff-In-Charges of the I-Tech committee Prof. Anagha Patil and Prof. Mehul Khandhedha and the students who have toiled tirelessly for this magazine are to be highly congratulated for bringing out such a fine, informative piece of publication. I hope the IT department and the I-Tech committee will continue to strive and make mammoth efforts to keep up their good work and raise the bar of their soaring abilities.

Happy reading!!!

**Prof. Chandan Kolvankar**  
**Head of Department, INFT**  
**VCET**





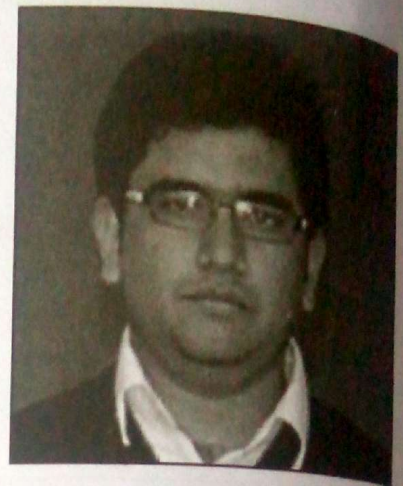
## From Staff-Incharge's Desk



We are highly delighted to present to you the fourth edition of "LOGIN... To Xplore", the annual technical magazine of the department of Information Technology. The magazine that you hold in your hands now is an outcome of gruelling efforts of everyone involved in its making fuelled by the right mix of passion, dedication and determination. The magazine under I-Tech committee was first published in the academic year 2009-2010. The first edition of magazine was named as "Dig-It" which was later named as "LOGIN... To Xplore". The magazine was first printed under the guidance of Prof. Anagha Patil (2009-2010).

The key purpose of this magazine is to convey to the readers the trends and developments in the field of Information technology. You shall see a wide spectrum of subjects' right from Information security to upcoming mobile phones in the market. Also, the I-tech committee aspires to provide the students with a continual exposure to the ever-

**Prof. Anagha Jayesh Patil**  
Staff-In-Charge,  
I-tech Committee



increasing scope of Information technology by enriching the knowledge based in their chosen field and thereby acquainting them with knowledge pertaining to the IT industry that awaits them.

For and behalf of the I-Tech committee we would like to extend our sincere gratitude to, Dr. A.V.Bhonsale - Our honourable principal for his support and guidance as also Prof. Chandan Kolvankar - H.O.D of Information Technology Department for constantly encouraging us to make this magazine bigger and better and infusing us with a dynamism to succeed in our endeavours. Also a special word of thanks to our dedicated team of designers, editors and PRs as also the entire I-Tech Committee who have put in their heart and soul to the making of this magazine.

We are sure you will enjoy the technological extravaganza this magazine holds.

**Prof. Mehul Khandhedhia**  
Staff-in-Charge  
I-tech Committee

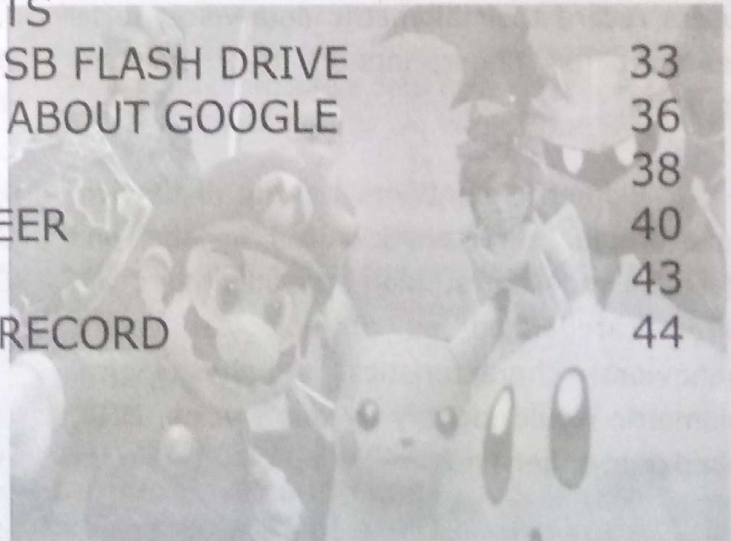




# LOGIN

Sr. No	Contents	Page No.
1	Epitome of Authentication: BIOMETRICS	4
2	RADIO FREQUENCY IDENTIFICATION	5
3	BABY TIME: AN EMOTECH SAGA	7
4	PERSONALITY PLUS: FAMOUS IT PERSONALITIES IN INDIA	8
5	plan b	12
6	COMPUTER GAMING	14
7	CLOUD PROOF YOUR CAREER(INFOGRAPHIC)	16
8	GOOGLE GLASS	17
9	KINDLE PAPERWHITE	19
10	ALGORITHM THAT PREDICTS USER MOVEMENTS???	21
11	Sixth Sense	23
12	FORMLABS FORM 1- 3D DESKTOP PRINTER	25
13	MICROSOFT SKIPS WINDOWS 9 AND JUMPS TO WINDOWS 10	27
14	Skype LEAKS YOUR IDENTITY	29
15	NEW APPLE OPERATING SYSTEM AIMS TO KNIT TOGETHER ITS PRODUCTS	31
16	WRITE PROTECT YOUR USB FLASH DRIVE	33
17	FUN FACTS AND TRICKS ABOUT GOOGLE	36
18	TEST YOUR ANTI-VIRUS	38
19	BOOST UP YOUR IT CAREER	40
20	10 HOT IT JOBS	43
21	TOPPERS & PLACEMENT RECORD	44

ITECH





## Epitome of Authentication : BIOMETRICS



### Epitome of authentication: BIOMETRICS

E-commerce companies, social networks, big banks, and other businesses with millions of online customers have to maintain an array of expensive servers to store passwords and usernames. Leaving all of that sensitive information in a central location can make it a tempting target for hackers. Instead of storing sensitive information on company servers, software engineer can use the software that lets users record their biometric data-voice, facial features, or fingerprints-on their personal gadgets.

Biometric identifiers are the distinctive, measurable characteristics used to label and describe individuals. Biometric identifiers are often categorized as physiological versus behavioral characteristics. A physiological biometric would identify by one's voice, DNA, hand print or behavior.

That's a far more secure entry key than a username and alphanumeric password. When the user provides a valid match, the device connects securely to the desired website. For hackers looking to compromise that system, they would need to steal your device, and your finger and your eye.

The password had to go sometime. The engineer began trying to get rid of alphanumeric passwords in 2009. Nok Nok lab has raised \$15 million from investors such as Onset Ventures and DCM, and the company's patented software will be tested in 3 million devices this year.

**By: Prof. Anagha Jayesh Patil,**  
Staff-In-Charge : I-Tech Committee.  
(Department of Information Technology)



## RADIO FREQUENCY IDENTIFICATION



or magnetic strip must be scanned to get the information, the RFID device how does RFID work? A Radio-Frequency Identification system has three parts:

- A scanning antenna
- A transceiver with a decoder to interpret the data
- A transponder - the RFID tag - that has been programmed with information.

The scanning antenna puts out radio-frequency signals in a relatively short range. The RF radiation does two things:

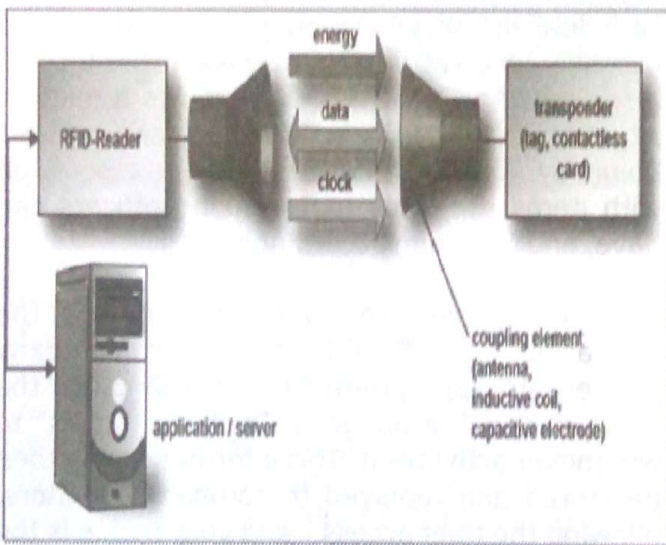
- It provides a means of communicating with the transponder (the RFID tag) and
- It provides the RFID tag with the energy to communicate (in the case of passive RFID tags).

This is an absolutely key part of the technology; RFID tags do not need to contain batteries, and can therefore remain usable for very long periods of time (maybe decades).

The scanning antennas can be permanently affixed to a surface; handheld antennas are also available. They can take whatever shape you need; for example, you could build them into a door frame to accept data from persons or objects passing through.

When an RFID tag passes through the field of the scanning antenna, it detects the activation signal from the antenna. That "wakes up" the RFID chip, and it transmits the information on its microchip to be picked up by the scanning antenna.

In addition, the RFID tag may be of one of two types. Active RFID tags have their own power source; the advantage of these tags is that the reader can be much farther away and



RFID stands for Radio-Frequency Identification. The acronym refers to small electronic devices that consist of a small chip and an antenna. The chip typically is capable of carrying 2,000 bytes of data or less.

The RFID device serves the same purpose as a bar code or a magnetic strip on the back of a credit card or ATM card; it provides a unique identifier for that object. And, just as a bar code



still get the signal. Even though some of these devices are built to have up to a 10 year life span, they have limited life spans. Passive RFID tags, however, do not require batteries, and can be much smaller and have a virtually unlimited life span.

RFID tags can be read in a wide variety of circumstances, where barcodes or other optically read technologies are useless.

- The tag need not be on the surface of the object (and is therefore not subject to wear)
- The read time is typically less than 100 milliseconds
- Large numbers of tags can be read at once rather than item by item.

### What can RFID are used for?

RFID tags come in a wide variety of shapes and sizes; they may be encased in a variety of materials:

- Animal tracking tags, inserted beneath the skin, can be rice-sized.
- Tags can be screw-shaped to identify trees or wooden items.
- Credit-card shaped for use in access applications.
- The anti-theft hard plastic tags attached to merchandise in stores are also RFID tags.
- Heavy-duty 120 by 100 by 50 millimeter rectangular transponders are used to track shipping containers, or heavy machinery, trucks, and railroad cars.

RFID devices have been used for years to identify dogs, for a means of permanent identification. Dog owners had long used tattoos, permanent ink markings, typically on the ears. However, these can fade with age and it may be difficult to get the animal to sit still while you examine him for markings. Many musical instruments are stolen every year. For example, custom-built or vintage guitars are worth as much as \$50,000 each. The database of RFID chip IDs is made available to law enforcement.

### Next-Generation Uses of RFID:

Some vendors have been combining RFID tags with sensors of different kinds. This would allow the tag to report not simply the same information over and over, but identifying information along with current data picked up by the sensor. For example, an RFID tag attached to a leg of lamb could report on the temperature readings of the past 24 hours, to ensure that the meat was properly kept cool.

### Is RFID Technology Secure and Private?

Anyone with an appropriately equipped scanner and close access to the RFID device can activate it and read its contents. Obviously, some concerns are greater than others. If someone walks by your bag of books from the bookstore with a 13.56 MHz "sniffer" with an RF field that will activate the RFID devices in the books you bought, that person can get a complete list of what you just bought. That's certainly an invasion of your privacy, but it could be worse. Another scenario involves a military situation in which the other side scans vehicles going by, looking for tags that are associated with items that only high-ranking officers can have, and targeting accordingly.

Companies are more concerned with the increasing use of RFID devices in company badges. An appropriate RF field will cause the RFID chip in the badge to "spill the beans" to whomever activates it. This information can then be stored and replayed to company scanners, allowing the thief access - and your badge is the one that is "credited" with the access.

The smallest tags that will likely be used for consumer items don't have enough computing power to do data encryption to protect your privacy. The most they can do is PIN-style or password-based protection.

**By: Prof. Mehul Khandhedia,**  
Staff-In-Charge: I-Tech Committee,  
(Department of Information Technology)



## BABY TIME: AN EMOTECH SAGA



A new iPad program is enabling mothers to bond with their babies soon after delivery - even when they are hospitalized on different floors. Moms who are not ambulatory after delivery, perhaps because of a cesarean section or other complications, are able to see their newborns in the Neonatal Intensive Care Unit due to the new iPad initiative in the Maxine Dunitz Children's Health Center at Cedars-Sinai. The program, called BabyTime, allows moms to visit with their infants and the medical team over a secured internet connection.

BabyTime can help bridge communication with the family and the baby's medical team and is an excellent use of technology to help new mothers bond with their babies, even when they cannot be physically at their babies' bedside. "When doctors and nurses are treating a newborn in the NICU, mom can be right there

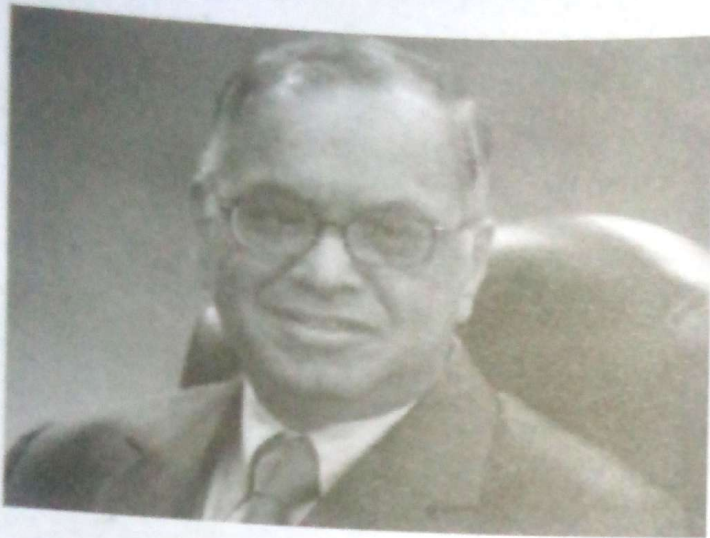
asking questions and getting updates, even if she's on a different floor," he said. Simmons estimates that 20 to 30 per cent of mothers who undergo C-sections do not feel well enough to travel from their bed in the Labor and Delivery unit to the NICU for the first 24 to 48 hours.

As soon as the baby is admitted to the Neonatal Intensive Care Unit, an iPad is set up next to the infant's incubator. A second iPad is delivered to the new mother, who can log onto BabyTime twice a day. The BabyTime program will reduce fear and stress in the new moms as they are able to see their babies and also communicate with the doctors and nurses.

**By: Prof. Anagha Jayesh Patil**  
Staff-In-Charge: I-Tech Committee,  
(Department of Information Technology)



## PERSONALITY PLUS : FAMOUS IT PERSONALITIES OF INDIA



### 1. N.R. NARAYANA MURTHY :

N. R. Narayana Murthy is the GURU of Information Technology. He is the co-founder of Infosys Technologies and is one of the most well known personalities in the Indian IT sector. He was the CEO of Infosys for twenty years. In 2002 Nandan M. Nilekani took over as CEO from N.R. Narayana Murthy. Narayana Murthy then worked as Chairman and Chief Mentor from 2002 to 2006. After his retirement in August 2006 he continues as Chairman Emeritus.



### 2. VINOD DHAM :

He is known as "Father of Pentium Chip" or "Father of Pentium" for the role in the development of highly successful Pentium Processors from Intel. Vinod Dham is also one of the co-inventors of the Flash memory.



### 3. AZIM PREMJI :

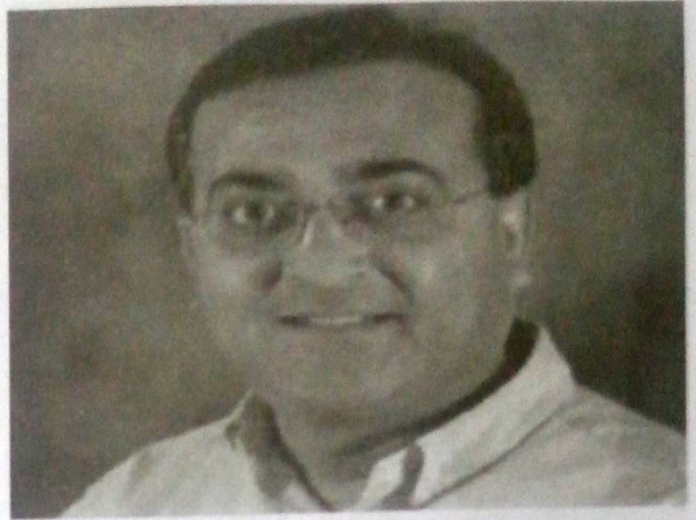
Software tycoon Mr. Azim Premji is India's Bill Gates and one of the Richest Indian for the past several years. He is Founder and Chairman of Wipro Technologies - one of the largest software companies in India. He is providing his guidance to company from last four decades and one of the great Indian leaders of Software Field. In 2011, he has been awarded with Padma Vibhushan.





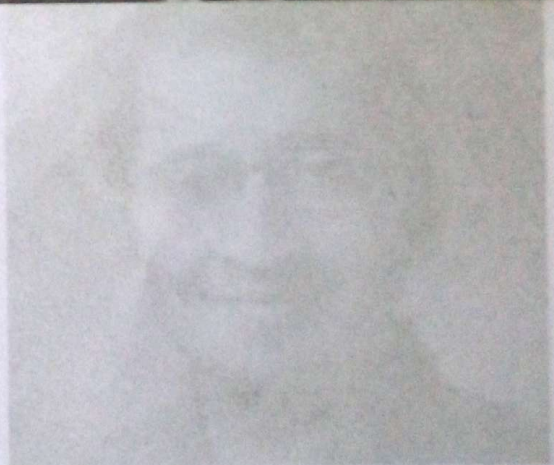
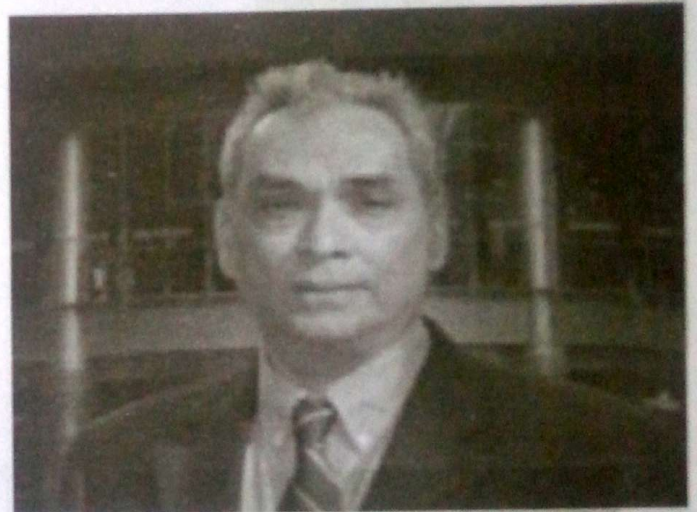
#### 4. AJAY BHATT :

Ajay Bhatt well known as Co-founder or Co-Inventor of the USB : Universal Serial Bus Device. Mr. Bhatt is co-founded not only USB but also developed AGP (Accelerated Graphics Port), PCI Express, Platform Power management architecture (PPMA) etc. Mr. Bhatt got his Bachelor's Degree from M.S. University Baroda, India and his Master's Degree from New York, USA then he joined at 'Intel Corporation'. Mr. Bhatt is also known as 'Intel Rock Star'. He is Intel Fellow, Chief Client Platform Architect of Intel Architecture Group.



#### 5. AJIT BALAKRISHNAN :

Ajit Balakrishnan founded Rediff.com when he was 48 year old. He is the founder of rediff.com as well as current Chairman and CEO of Rediff.com Mr. Balakrishnan, at the age of 22, co-founded Rediffusion, one of the largest advertising agencies and now it has been renamed to Rediffusion-Dentsu, Young & Rubicam Ltd. Mr. Ajit Balakrishnan is also Chairman of board at IIM (Indian Institute of Management) Calcutta. Mr. Balakrishnan has been serving as Managing Director of Rediffusion-Dentsu, Young & Rubicam Ltd and Rediff.com since 1993 and 2008 respectively and with that he is Chairman Emeritus of the IMAI i.e. Internet and Mobile Association of India.







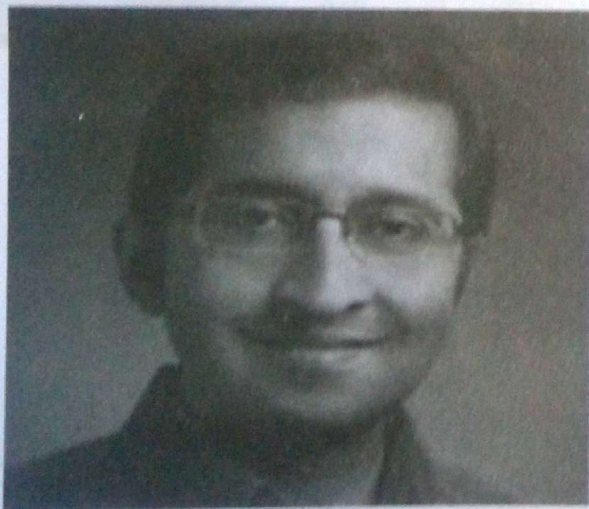
**6. SABEER BHATIA :**

Sabeer Bhatia is the co-founder of Hotmail.com - the world's first webmail service. He has announced three more ventures - Arzoo, Instacoll and SabseBol - after Hotmail. Sabeer Bhatia and Yogesh Patel have started JaxtrSMS which is a free messaging service that allows users to send text messages for free anywhere in the world.



**7. RAJU VANAPALA :**

V V Raju is the founder & CEO of way2sms.com. V V Raju is main pillar behind the success of way2sms.com. Mr. Raju completed his MCA (Master of Computer Application) in 2003 and then he started company named Way2Online Interactive India pvt. ltd, and in 2006 Mr. Raju started way2sms.com website that provides free messaging (SMS) services. Way2sms.com is India's first free SMS service started in Jan 2007 in Hyderabad and having Millions of subscribers currently and from May 2012 owned by Value First Messaging.



**8. KRISHNA BHARAT :**

Krishna Bharat is creator of Google News. Bharat is one of the Principal Research Scientist at Google. Bharat is from Bangalore, India and completed schooling from there and Graduation from IIT, Madras, India and Ph.D. from Georgia. He has joined Google in 1999. Currently Krishna Bharat is handling Google's new Research & Development Center in Bangalore, India.



### 8. SASHI REDDI :

This man is associated with the world's largest software testing and quality Management Company named 'AppLabs', he is founder and executive chairman of this company. Mr. Sashi is also a founder and chairman of FXLabs, a company that develops game products in India for computers and Videogame consoles. Sashi Completed his Bachelor degree in Computer Science (B.Tech) from the IIT: Indian Institute of Technology, New Delhi, India and completed his Master in Computer Science from New York, USA and PhD from the Pennsylvania University.



### 10. NANDAN NILEKANI :

Nandan Nilekani, one of the co-founder of Infosys with Narayan Murthy and he is the CEO and managing director of the Infosys. In 2002 Nandan M. Nilekani took over as CEO from N.R. Narayana Murthy before that he was Managing Director, President and Chief Operating Officer at Infosys. Mr. Nilekani started his career with Patni Computer Systems where he met Mr. Narayan Murthy then he worked at Infosys and served there for many years and left Infosys in 2009. India's one of the best entrepreneurs: Mr. Nilekani is currently working as the Chairman of the UIDAI: Unique Identification Authority of India.



**By: Aparna S. Nair**  
(S.E.I.T)





A back-up is mandatory in all aspects of our day-to-day life having something we say plan-b, so that it can bring us out from a situation. It acts as a secondary option to resolve the situation a person is into. This particular concept is implemented in our android's we have today. Quite often we forget where we keep our cell-phones, or may be during a party we lose it, or in the case when its stolen, no need to worry now, android's got your back and leads you to your precious cells.

**What is plan-b??**

If you ever lose your phone and don't have a contingency plan in place, you can remotely install Plan B on your phone and locate it instantly.

There are some featured ways to find your lost or stolen phone, but they all require that you set up the system beforehand some like Mobile Tracker. Plan B, on the other hand, lets

you remotely install it using the Android Market Web interface and immediately sends you the phone's coordinate after it does. You don't need to configure it, create an account, or do anything else its location will just show up in your Gmail. It'll track your phone for 10 minutes, emailing you updates if it moves, after which you can just text the word "Locate" to your phone to track it again. For some phones, it can even turn on GPS if it's turned off (though it'll need an internet connection if you're installing the app remotely). plan-b is a free download for Android 2.0 and up.

This is a project of the Labs division of Lookout Mobile Security. The goal of Lookout Labs is to explore new ideas and push the boundaries of mobile apps. Labs projects are experimental by nature, and may only be available for a limited time.

**How does plan-b work???**

This is the first and only 'find my phone' app that you download AFTER you've already lost your phone. Having Lookout on your phone is the best way to





protect your phone and find it fast, but use Plan B if you have already lost your phone and didn't have Lookout installed. This app has a quite simple implementation and with overwhelming results. This is a project of the Labs division of Lookout Mobile Security. Basically the requirement to get this app working as a savior for you is to have a Google account synced with the Play Store in your lost cell phone. Once you have that you can trigger the download from the Play Store site from your computer remotely and it will be installed in your cell sending the particular co-ordinates of the location of your cell where it currently is for 10 minutes. Further co-ordinates can be obtained by simply sending a text "locate" from some other cell to yours..

- moves.
- ❖ Each location email will include an accuracy rating in meters.
- ❖ Plan B will attempt to launch as soon as it downloads, but in some cases you will need to send an SMS to get it started.?
- ❖ Note that your location is only sent to the Gmail address that is already associated with your phone; nobody else can access your location using Plan B.
- ❖ U.S. Users: If a data connection is not available, Plan B will use mobile-originated SMS messages to send your location to your email address.
- ❖ Regular SMS rates may apply\*\*.

So this app is surely a back-up, a PLAN-B for cell lovers who probably have a habit of losing their cells every now and then.

**Technical Details:**

- ❖ You'll get one email message when Plan B starts, and up to 5 other messages as it refines your phone's location or tracks it as it

**By: Sumesh Valanju**  
(S.E.I.T)

**NOTE: Plan B only works with 2.0 - 2.3 versions of Android**

**1** Download Plan B to your lost phone by clicking Install.

**2** Plan B will start automatically and send your phone's location to your Gmail address.

**3** To locate again after 10 minutes, borrow a friend's phone and text the word "locate" to your lost phone.

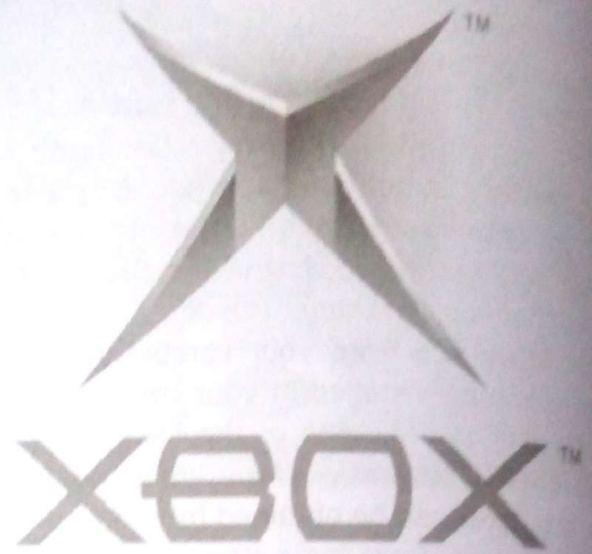
plan b

A PROJECT BY LOOKOUT LABS





## COMPUTER GAMING



### FACTS.....

A growing body of university research suggests that gaming improves creativity, decision-making and perception. The specific benefits are wide ranging, from improved hand-eye coordination in surgeons to vision changes that boost night driving ability.

People who played action-based video and computer games made decisions 25% faster than others without sacrificing accuracy, according to a study. Indeed, the most adept gamers can make choices and act on them up to six times a second-four times faster than most people, other researchers found. Moreover, practiced game players can pay attention to more than six things at once without getting confused, compared with the four that someone can normally keep in mind, said University of Rochester researchers. The studies were conducted independently of the companies that

sell video and computer games.

Scientists also found that women-who make up about 42% of computer and videogame players-were better able to mentally manipulate 3D objects, a skill at which men are generally more adept. Most studies looked at adults rather than children.

Electronic game play has its downside. Brain scans show that violent videogames can alter brain function in healthy young men after just a week of play, depressing activity among regions associated with emotional control, researchers at Indiana University recently reported. Other studies have found an association between compulsive gaming and being overweight, introverted and prone to depression. The studies didn't compare the





benefits of gaming with such downsides.

The violent action games that often worry parents most had the strongest beneficial effect on the brain. "These are not the games you would think are mind-enhancing," said cognitive neuroscientist Daphne Bavelier, who studies the effect of action games at Switzerland's University of Geneva and the University of Rochester in New York.

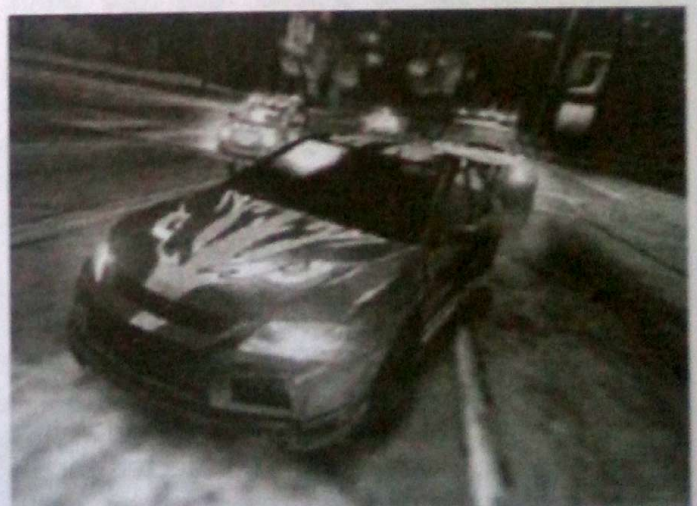
### Different Games' Effects on Your Brain

For scientists, the industry unintentionally launched a mass experiment in the neurobiology of learning. Millions of people have immersed themselves in the interactive reward conditioning of electronic game play, from Tetris, Angry Birds, and Farmville, to shooter games and multiplayer, role-playing

fantasies such as League of Legend, which has been played 1 billion times or so in the two years since it was introduced.

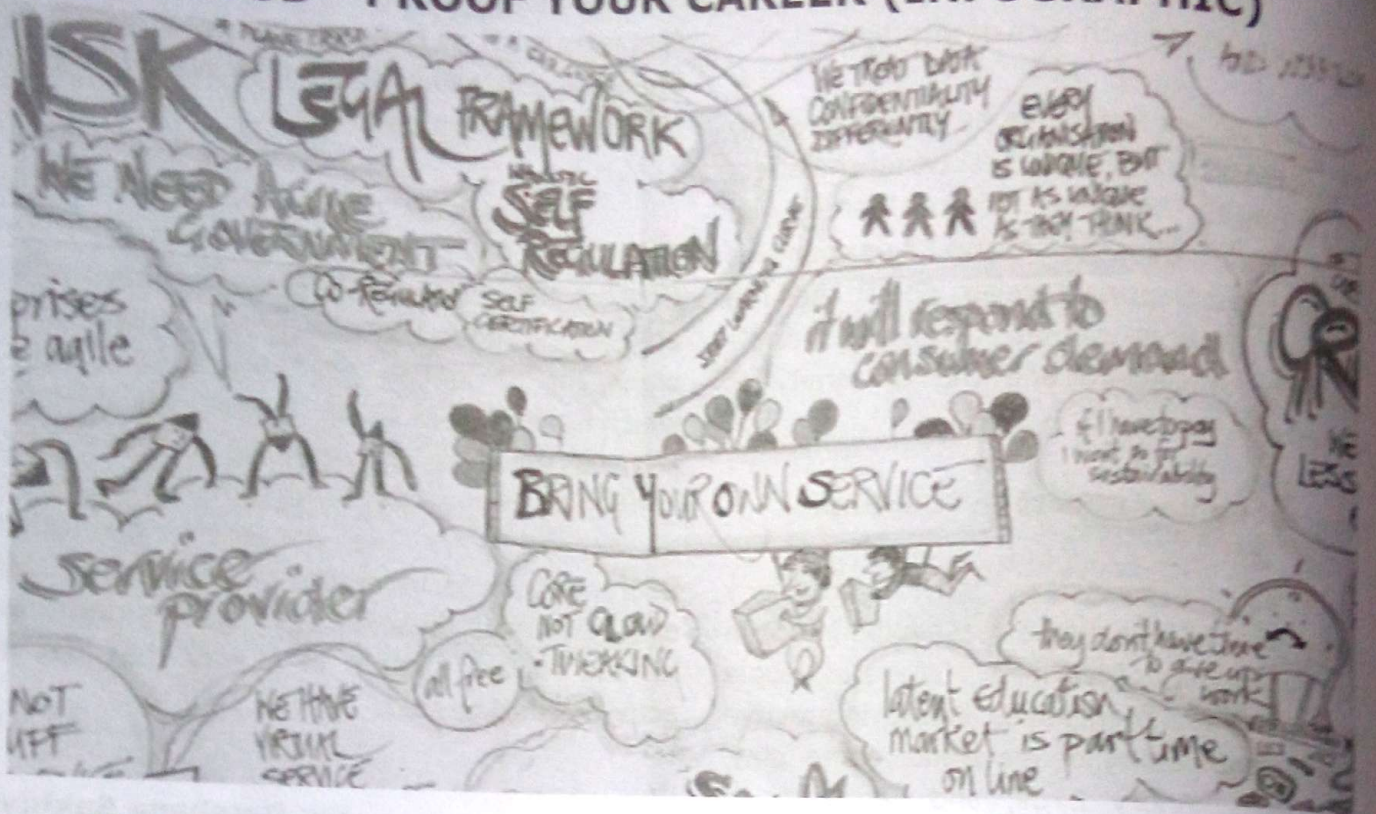
"Videogames change your brain," said University of Wisconsin psychologist C. Shawn Green, who studies how electronic games affect abilities. So does learning to read, playing the piano, or navigating the streets of London, which have all been shown to change the brain's physical structure. The powerful combination of concentration and rewarding surges of neurotransmitters like dopamine strengthen neural circuits in much the same way that exercise builds muscles. But "games definitely hit the reward system in a way that not all activities do," he said.

**By: Darshana Sakhiya**  
(S.E. I.T)





## CLOUD - PROOF YOUR CAREER (INFOGRAPHIC)



Whether you're a baby boomer in your fourth decade of IT work, or a Gen-Y newbie know-it all, the cloud is either impacting your career now ... or soon will be.

What do you need to know - or do - to make that impact a good one?

Cloud services company Bluelock put together an infographic for IT professionals. That's timely, because in my experience hardcore developers (particularly those in mobile and web services) are often fairly knowledgeable about cloud offerings ... but a significant chunk of the more IT-focused technology workers are not.

They're often too busy keeping the lights on and the gravity working - focused on today, not tomorrow.

But with 48 percent greater cloud adoption just in the last six months, and a projected three-quarters of companies on the cloud by 2020, cloud savvy is not optional anymore. With the promised cost savings come new investments ... and privacy concerns, and SLAs, and access

controls, and APIs, and new management requirements, all of which have to be accounted for.

There can be fear and trepidation when an evolution or big change blows through an industry, and the fear is palpable for some IT pros who are worried right now about what kind of impact cloud will have on their job. With 65% of recruiters and hiring managers reporting they plan on increasing IT staff in 2012, IT jobs aren't going anywhere, but their focus and purpose is shifting. As the cloud becomes an integral aspect of all business units, decision-making is shifting from just tactical and IT-oriented processes to a strategic and business-oriented process. No matter where you are in your career path, you already have skills and strengths you can capitalize on to propel you into the next chapter of IT, with cloud being a boon for success rather than a concern.

**By: Allwyn D'Souza**  
(SEIT)





## Google Glass

Translates for you in any desired language:



When Google Glass was unveiled, the tech world instantly fell into two camps. Camp one was excited: we're living in the sci-fi future! Camp two, though, wasn't so happy. It's vaporware! Some said, while others worried that Google just wanted to plaster ads on the entire world. Is either camp correct? Let's find out.

What is Google's Project Glass?

Google Glass is the attempt to make wearable computing mainstream, and it's effectively a smart pair of glasses with an integrated heads-up display and a battery hidden inside the frame. Wearable computing is not a new idea, but Google's enormous bank account and can-do attitude means that Project Glass could well be the first product to do significant numbers

What does Google Glass do?

The core of Google Glass is its tiny prism display which sits not in your eye line, but a little above it. You can see what is on the display by glancing

up. The glasses also have an embedded camera, microphone, GPS and, reportedly, use bone induction to give you sound. Voice control is used to control the device; you say 'ok glass' to get a range of options including taking pictures, videos, send messages using speech to text, 'hang out' with people or get directions to somewhere. You access these options by saying them out loud. Most of this functionality is self explanatory; hang out is Google's video conferencing technology and allows you to talk to a people over web cam, and stream them what you are seeing and the directions use Google Maps and the inbuilt GPS to help you find your way. The results are displayed on the prism - essentially putting data into your view like a head up display (HUD). It's potentially incredibly handy. People are already developing some rather cool/scary apps for Google Glass - including one that allows you to identify your friends in a crowd.



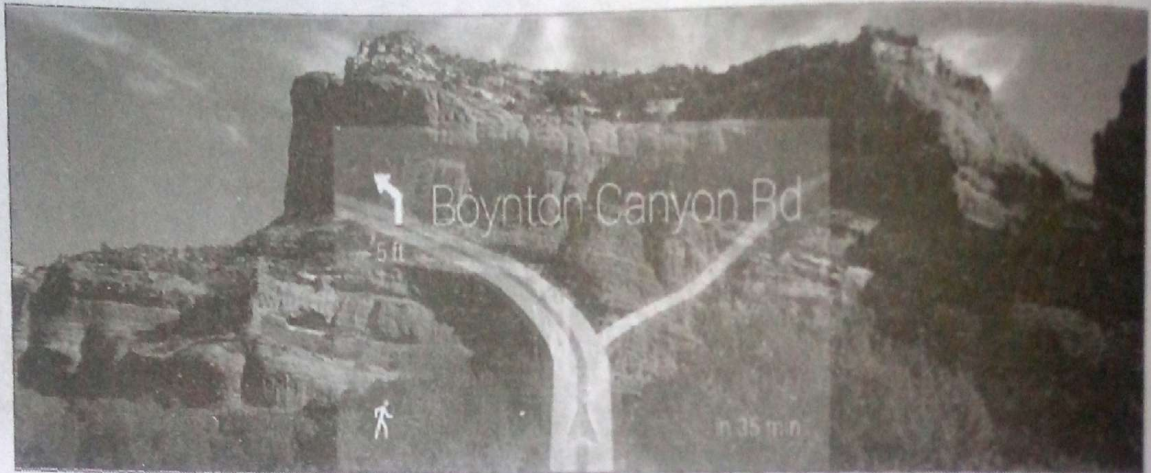


**What is the Project Glass price?**

The NYT again: according to "several Google employees familiar with the project who asked not to be named," the glasses are expected "to

cost around the price of current smartphones." So that's around \$750/£500, then, possibly with the help of a hefty Google subsidy.

**Gives directions and guides you to your destination.**

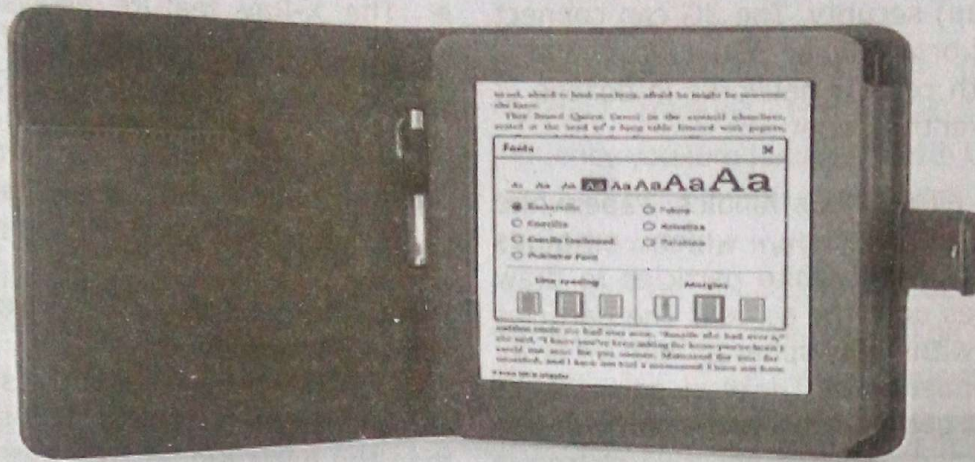


**By: Sumesh Valanju  
(S.E.I.T.)**





## KINDLE PAPERWHITE



Imagine you are on vacation, lying on the beach and not in the mood for a swim. You thought you wanted to read the latest Nicholas Sparks novel, but now you are in the mood for Toni Morrison. An hour later you decide to switch to the latest edition of Scientific American, and before you leave, you flip through a newspaper. In the past, your finicky reading habits would have weighed down your beach bag. But now, you can carry a single e-reader with you that's roughly the weight of a paperback.

Paper books certainly have their charm, but multiples can be cumbersome. On your typical modern e-reader, you can carry hundreds of books with you at once and flip from one to another at will. They even save your place. Now that many of us are carrying around tiny computers in our pockets in the form of smartphones that can do much more than display text, e-readers are no longer exciting new technology. Most of these phones even have multiple e-reader apps from which to choose. But a dedicated e-reader can be a great pleasure to an avid devourer of the written word, especially one who prefers ink on paper to the computer screen. E-readers that use E Ink display technology are known for mimicking the look and reflective properties of paper more

closely than a phone, tablet or computer screen does.

The Amazon Kindle e-reader has been around since 2007 and has had several facelifts since it was first introduced. As of spring 2013, the latest generation is the Kindle Paperwhite, released in October 2012. It is a step up from all Kindles before it in several ways. The most obvious change is the addition of a built-in light. All previous Kindle models (with the exclusion of the Fire, which is more akin to a tablet than an e-reader) required an external light source, just like you would need to read a regular book. But with Paperwhite, you can read anywhere under any lighting condition. You can resume your beach reading in the dark of your hotel room without having to turn on a lamp.

### Kindle Paperwhite Specs:

Kindle Paperwhite measures 6.7 inches (169 millimeters) high by 4.6 inches (117 millimeters) wide. It is a scant 0.36 inches thick (9.16 millimeters for the WiFi-only model and 9.27 millimeters for the 3G). The WiFi-only version weighs just 7.5 ounces (213 grams) and the 3G weighs 7.8 ounces (221 grams) due to additional internal hardware. The WiFi-only Paperwhite can connect to an





802.11b, 802.11g or 802.11n WiFi network and supports WEP, WPA, WPA2 or WPS (WiFi Protected Setup) security. The 3G can connect via either WiFi or a cellular 3G network, and is compatible with cellular networks in dozens of countries all over the planet.

As with all previous Kindles, Paperwhite uses E Ink technology, which employs microscopic black and white particles to draw text and images onto the screen. The particles are contained within tiny spheres, with an array of electrodes underneath. The black particles are negatively charged and the white particles are positively charged. When a negative charge is applied under a sphere, it repels the black particles to the surface, making that area appear black on the screen. A positive charge repels the white particles, effectively erasing the "ink" and making that area appear blank. These spheres and electrodes can also be used to draw 16-level grayscale images. In conjunction with a matte screen surface, E Ink makes for very smooth and readable text that resembles that of a book more closely than the text on a computer screen.

The Paperwhite has a display resolution of 768 by 1024 pixels, with 212 pixels per inch (PPI). Paperwhite also incorporates a new LED front-lit screen. The device's lithium polymer battery has estimated life of up to eight weeks, assuming you keep the light at brightness level 10 (out of 24), only use it for 30 minutes a day and turn wireless off when you're not actively using it. Other usage patterns can drain the battery faster, but a Kindle can run much longer on one charge than the typical phone, tablet or laptop, even with heavy use.

Speaking of the lit screen, read on to find out more about this improvement to the Kindle e-reader.

- \* You can translate selected words into other languages via Bing Translator.
- \* The Time to Read feature learns your reading habits and can give you an estimate

of how much time it will take you to read a chapter or the book.

- \* The X-Ray feature allows you to view a graphical representation of all the passages related to certain characters, places or topics that occur across a page, a chapter or the entire book, and lets you look up information about these items. This feature is not available in all Kindle books.

### Differences Between Prior Kindles and Kindle Paperwhite:

Paperwhite is slightly smaller than the current Kindle Keyboard 3G and slightly larger than the basic Kindle. The Kindle Paperwhite is quite similar to the now discontinued Kindle Touch in size, appearance and functionality, with a couple of key differences.

Kindle Touch was the first touch-screen Kindle, and Paperwhite has entirely replaced it. The Paperwhite has a two-point multi-touch capacitive touch-screen, whereas the Touch had a less responsive infrared (IR) touch-screen. The bezel is a little thinner on the Paperwhite because there is no longer the need for built-in IR transmitters to detect your hand motions on the screen. The new capacitive touch screen has more in common with the touch screens of most tablets, and is possibly the result of Amazon's acquisition of the multi-touch hardware manufacturer Touchco in 2009.

With the Paperwhite, the resolution jumped from the 600 by 800 pixels of all previous Kindles to a crisper 768 by 1024 pixels. Pixel density increased from 167 PPI to 212 PPI, about 62 percent more pixels than the Touch. The number of fonts available increased from three to six. The most obvious change is, of course, the lit screen, which no other Kindle has as of the Paperwhite's debut. Also, unlike previous models, the Paperwhite can switch between portrait and landscape views.

**By: Sharvari S. Raut**  
(T.E.I.T)





## ALGORITHM THAT PREDICTS USER MOVEMENTS????

Today we can say that anything that is imaginable is possible to be implemented. Technology has intimate possibilities and the technologies that are and will be evolving will bring everything into existence that we never dreamt off. A similar concept is in progress to be brought into existence.

Knowing that location tracking is something that most mobile operating systems and devices currently support, the issue of such data being used by companies is still controversial. The prediction algorithm was tested on "students, researchers, and people that are fairly predictable anyway", says Mirco Musolesi, a computer scientist at the University of Birmingham who led the study.

### What is it all about?

The 200 volunteers in the 18-month experiment proved the prediction algorithm was less than 20 meters off in determining where users would be within the next 24 hours. Even

friends' patterns were used in the process because tracking their whereabouts could influence you into joining up with them. Plenty of hay has been made over which apps and cell phones track our movements, but so far it has been difficult to accurately determine where we're going next -- people can be unpredictable, after all, and make dinner plans at random new places on a whim. In that case, what's a prediction algorithm to do? Track all your friends, too, it turns out.

A team of British researchers developed a new algorithm that can predict where you'll be within 24 hours, with 20-meter (about 65-foot) accuracy. This is a major improvement over other attempts to predict future movements, which have been based in cell phones and even in some cars. These systems track your location over time to determine patterns and habits throughout the days and weeks, figuring out likely destinations at certain periods. But what about when the pattern is disrupted?







## Sixth Sense



'Sixth Sense' is a wearable gestural interface that augments the physical world around us with digital information and lets us use natural hand gestures to interact with that information. It was first proposed by MIT media lab student Steve Mann. The concept was further developed by Pranav Mistry. Mistry is now a team leader in Samsung Electronics Silicon Valley office.

We've evolved over millions of years to sense the world around us. When we encounter something, someone or some place, we use our five natural senses to perceive information about it; that information helps us make decisions and chose the right actions to take. But arguably the most useful information that can help us make the right decision is not naturally perceivable with our five senses, namely the data, information and knowledge that mankind has accumulated about everything and which is increasingly all available online. Although the miniaturization of computing devices allows us to carry computers in our pockets, keeping us continually connected to the digital world, there is no link between our digital devices and our interactions with the physical world.

Information is confined traditionally on paper or digitally on a screen. 'Sixth Sense' bridges this gap, bringing intangible, digital information out into the tangible world, and allowing us to interact with this information via natural hand gestures. 'Sixth Sense' frees information from its confines by seamlessly integrating it with reality, and thus making the entire world your computer.

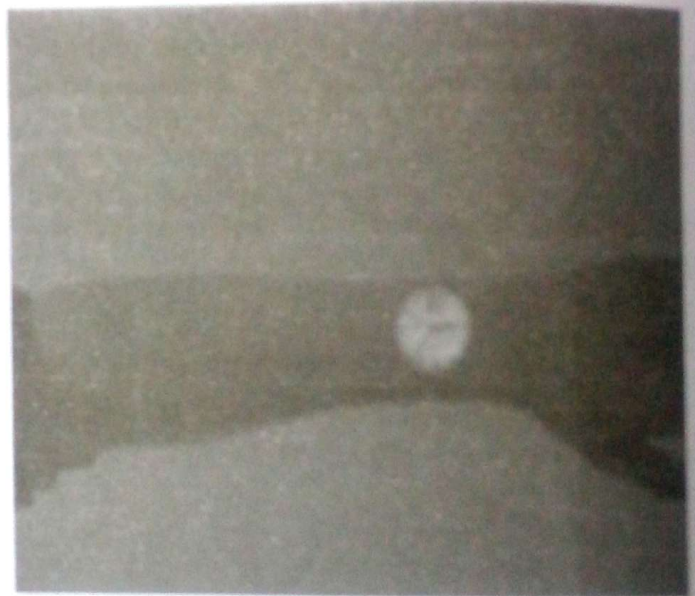
The Sixth Sense prototype is comprised of a pocket projector, a mirror and a camera. The hardware components are coupled in a pendant like mobile wearable device. Both the projector and the camera are connected to the mobile computing device in the user's pocket. The projector projects visual information enabling surfaces, walls and physical objects around us to be used as interfaces; while the camera recognizes and tracks user's hand gestures and physical objects using computer-vision based techniques. The software program processes the video stream data captured by the camera and tracks the locations of the colored markers at the tip of the user's fingers using simple computer-vision techniques. The movements and arrangements of these colored markers are



interpreted into gestures that act as interaction instructions for the projected application interfaces.

The Sixth Sense prototype implements several applications that demonstrate the usefulness, viability and flexibility of the system. The map application lets the user navigate a map displayed on a nearby surface using hand gestures, similar to gestures supported by Multi-Touch based systems, letting the user zoom in, zoom out or pan using intuitive hand movements. The drawing application lets the user draw on any surface by tracking the fingertip movements of the user's index finger. Sixth Sense also recognizes user's freehand gestures (postures). The user can stop by any

surface or wall and flick through the photos he/she has taken. Sixth Sense also lets the user draw icons or symbols in the air using the movement of the index finger and recognizes those symbols as interaction instructions. For example, drawing a magnifying glass symbol takes the user to the map application or drawing a '@' symbol lets the user check his mail. The Sixth Sense system also augments physical objects the user is interacting with by projecting more information about these objects projected on them. For example, a newspaper can show live video news or dynamic information can be provided on a regular piece of paper. The current prototype system costs approximate \$350 to build.



**By: Aparna S. Nair  
(S.E.I.T)**



## Formlabs Form 1- 3D desktop printer



3D printing enthusiasts will get a lot of laser-like precision for their buck from Formlabs. The Formlabs Form 1 3D desktop printer is in full production, and that is big news for tinkerers and creative tech types. That's because the printer employs a process that is significantly different than that used by other 3D printers on the market today.

### What is STEREO LITHOGRAPHY?

Stereolithography is 3D printing. In this instance it is curing light sensitive resin using an insistence light source. From computer information that describes a three dimensional object the machine can build up layers of resin to complete a solid resin model. It is an additive manufacturing process which employs a vat of liquid ultraviolet curable photopolymer "resin" and an ultraviolet laser to build parts' layers one at a time.

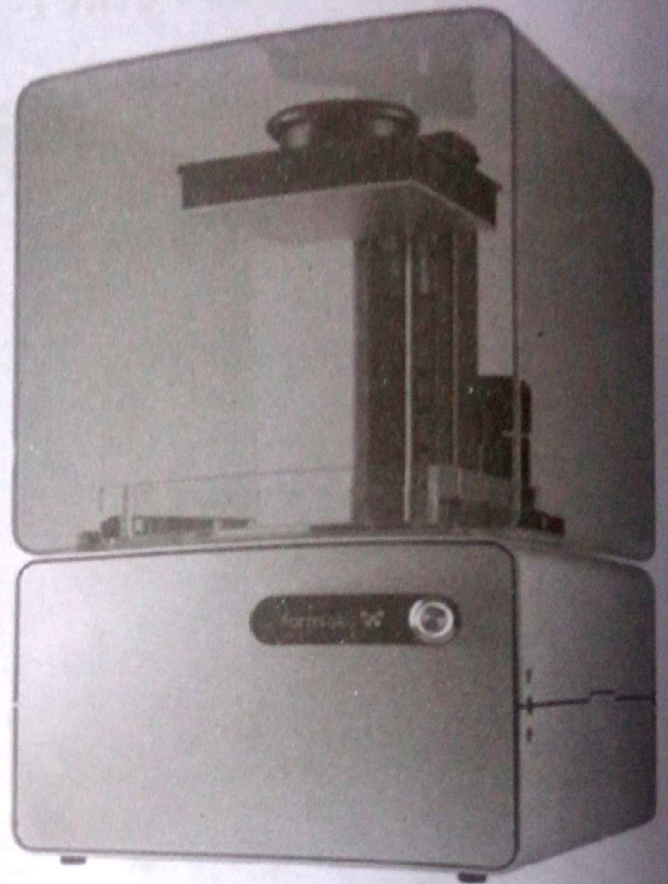


For each layer, the laser beam parts with a maximum size of approximately 50×50×60 cm (20"×20"×24") and some, such as the Mammoth stereolithography machine (which has a build platform of 210×70×80 cm), are capable of producing single parts of more than 2 m in length. Prototypes made by stereolithography are strong enough to be machined and can be used as master patterns for injection molding, thermoforming, blow molding, and various metal casting processes.

For \$3,300, the Form 1 package includes the 3D printer, software, and post-processing kit that comes with a finishing tray to hold components, rinsing solution to remove excess resin, water bath, dipping basket, scraper to remove excess material, tongs and drip trough. Right now, the company is hard at work getting ready to ship its initial production run of 1,000 printers by the end of April. Predictably, it's been challenging to figure out how to produce the printer in a way that customers will be able to just plug in and use, without having to do any calibration, traces a cross-section of the part pattern on the surface of the liquid resin. Exposure to the ultraviolet laser light cures and solidifies the pattern traced on the resin and joins it to the layer below.

One of the advantages of stereolithography is its speed; functional parts can be manufactured as shortly as within a day. The length of time it takes to produce one particular part depends on the size and complexity of the project and can last from a few hours to more than a day.


References: <http://formlabs.com>



**By: Prasad Diwan  
(S.E.I.T)**



## Microsoft skips 'too good' Windows 9, jumps to Windows 10

The image shows the Windows 9 logo, which is a sphere with a cross-like pattern on its surface, set against a dark background with light, wavy lines. The text "Windows 9" is positioned to the left of the sphere.

Windows 9

### Deeming Windows 9 'too good to release,' Microsoft execs shelve follow-up to Windows 8 and proceed to Windows 10

If you've been looking forward to Windows 9, the OS that will fix what Windows 8 got wrong; you're in for a surprise: There will be no Windows 9. Instead, Microsoft announced it will proceed directly to Windows 10. "The Windows 9 internal beta was a phenomenal success," said Microsoft PR rep Cheryl Tunt. "I

mean, it blew Windows 8 out of the water, and as we all know, Windows 8 is nigh flawless. After discussion at the C level, Microsoft has decided it will not mess with success and will leave Windows 9 exactly as it is. As such, work is now getting under way on Windows 10, which should see a public release."



Windows 8 is here, and InfoWorld can help you get ready with the Windows 8 Deep Dive PDF special report, which explains Microsoft's bold new direction for Windows, the new Metro interface for tablet and desktop apps, the transition from Windows 7, and more. Stay abreast of key Microsoft technologies in our Technology: Microsoft newsletter. Details about Windows 9 are sketchy, but according to internal Microsoft communications obtained by InfoWorld, the OS was fast, intuitive, bug-free, and equally adept with both the Windows Desktop and Metro-style interfaces. "And who would've thought to put the Start button there?!? Genius!" marveled one engineer, though it's unclear where "there" is exactly. Another engineer likened the OS to the Nintendo Entertainment System's Power Glove accessory, saying, "It's that good a melding of man and machine." One email chain riffed extensively on how Windows 9 is like the sitcom "Seinfeld" in that it's "about nothing," but also because "there was that one episode where Kramer got the deli meat slicer, and he said he had cut slices of meat so thin, he couldn't even see them. Well, Windows 9 is so transparent; you won't even know it's there. Hell, I'm not even sure I used

it!". "Hey guys, if all this is true, then we can't release this [OS] to the public," one HR manager who had been CC'd on the emails declared. "We have to keep this internal and advertise it as a perk. You know: 'Come work for Microsoft, and you get to use Windows 9!'" The decision to jump to Windows 10 was announced during an all-company meeting by Microsoft CEO Steve Ballmer, who took the stage in front of a banner reading "Mission Accomplished." "You guys who make Windows are the backbone of this company!" an exuberant Ballmer claimed. "You've really outdone yourselves here. This is exactly the kind of perfection so synonymous with the Microsoft brand that we can't see fit to have it exist anywhere but within Microsoft. It's simply too good to be released. Now, onward with Windows 10! By the way, this meeting counts as your lunch break."

There was at least one beta tester who wasn't quite so dazzled. He says "Yeah, I tried out Windows 9," he told InfoWorld on condition of anonymity. "I don't" know ... its pretty good, I guess. It's not at all what they're talking about, though -- the engineers sleepy. I'm pretty sure the real reason we aren't going to sell it is because it's actually OS X."

**By: Shivananjini Bhat**  
(SE-IT)





## Skype LEAKS YOUR IDENTITY

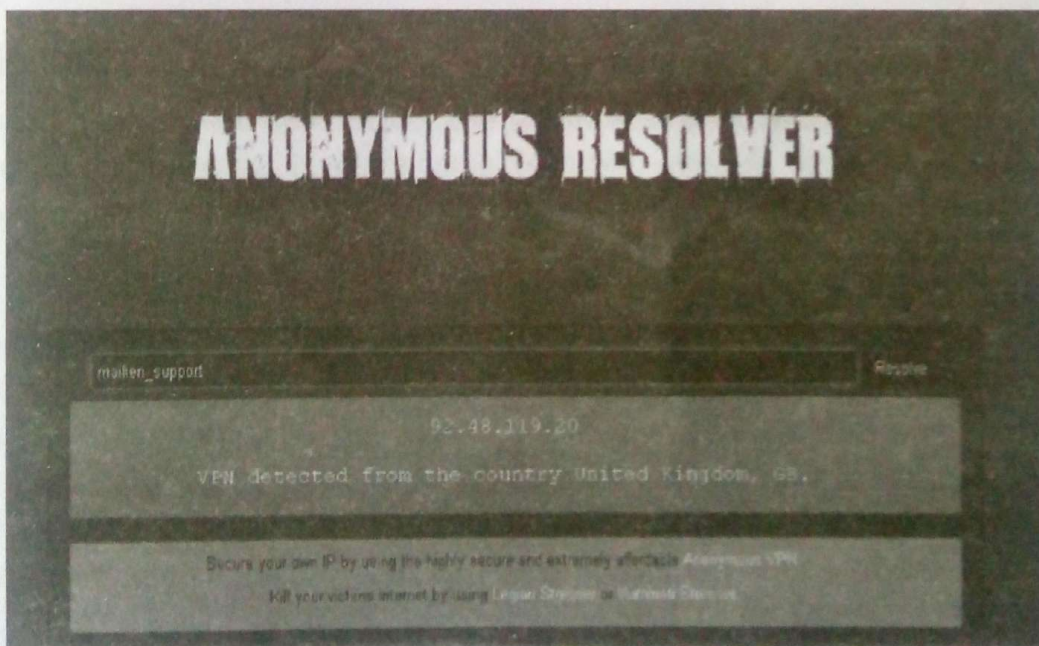


Skype constantly exposes users' internet addresses to the entire world, allowing criminals to better target cyber attacks and rivals to locate people.

The Wall Street Journal and other news outlets warned last year about research that showed it was possible to coax Skype into revealing the IP addresses of individual Skype users. Most users however, still have no clue

about this basic privacy weakness.

Since then a number of services have emerged to help snoops exploit this vulnerability to track and harass others online. For example, an online search for "Skype resolver" returns dozens of results that point to services (of variable reliability) that allow users to look up the internet address of any Skype user, just by supplying the target's Skype account name.





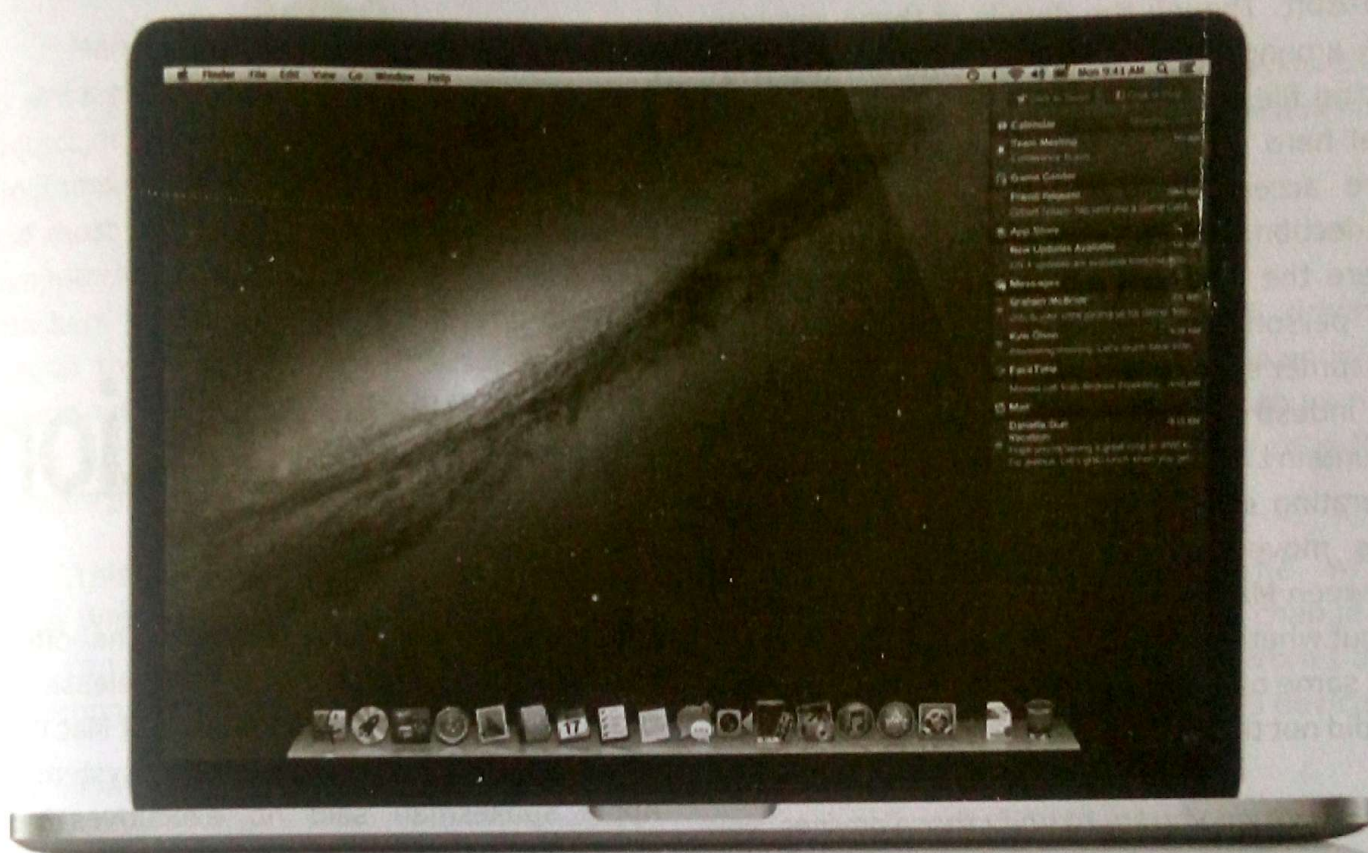
The idea being that if you want to knock someone offline but you don't know their internet address, you can simply search on Skype to see if they have an account, and then use the resolvers to locate their IP. The resolvers work regardless of any privacy settings the target user may have selected within the Skype program's configuration panel. Beyond exposing one's internet connection to annoying and disruptive attacks, this vulnerability could allow stalkers or corporate rivals to track movements of individuals and executives as they travel between cities and states. Many of these resolver services offers "blacklisting," which for a fee will allow users to prevent other users from looking up the IP address attached to a specific Skype account, said Brandon Levene, an independent security researcher. "It's basically a protection scheme," Levene said the resolvers work by using a modified Skype client (version 5.5 or 5.9) to create a debug log. This client is hosted on a web server. "A simple script is used to construct a link containing a Skype username, which is passed to the modified client." "This client simply attempts to add the requested username to a contact list and parses the target account's 'information card' (if available). This

process writes the IP address of the requested username to the debug log, in plain sight." Skype was purchased by Microsoft in 2011, but Microsoft appears to have done little to address this privacy weakness, despite the attention brought to it and the proliferation of sites offering to exploit it. Investigations regarding reports of tools that capture a Skype user's last known IP address. This is an ongoing, industry-wide issue faced by all peer-to-peer software companies. The simplest way to address these privacy issues would be to relay all Skype signaling traffic (known in telecommunications circles as 'handshakes') through proxies which disguise the original address. That would prevent low-resource third parties, such as resolvers, to track Skype users. However, despite a major infrastructure upgrade last year, Skype is still vulnerable to location tracking. One can only hypothesize as to why that is the case. One possibility is that relaying all signaling traffic would break interoperability with earlier versions of Skype. "Defending against more powerful attackers able to eavesdrop on internet links is much more challenging because it requires relay both signaling and encrypted payload traffic

**By: Shakir Sathe**  
(S.E.I.T)



## New Apple Operating System Aims to Knit Together Its Products



With the next version of Apple's OS X operating system for its Mac computers, the company has one clear message: If you're going to buy one Apple product, you might as well keep buying more.

It introduces several new features that move it closer to iOS, the software running on iPhones and iPads. While Apple is the world's biggest smart phone maker, its share of the PC market is still small, so tying the two together could help it sell more computers.

Mountain Lion includes some apps and features that were previously exclusive to Apple's mobile devices: Messages, Notes, Reminders and Notification Center. And it has a strong focus on iCloud, Apple's online service for storing and synchronizing data between mobile devices and Macs. When users first start up Mountain Lion, they are asked to enter their iCloud credentials. This way, content like notes, messages and event reminders can be easily shared between multiple Apple devices. For example, if a user jots something down in the Notes app on an iPhone or iPad, that same note will appear in the Notes app in Mountain Lion on a Mac.



Apple's iCloud is one of several new so-called cloud services available from technology companies, including Amazon, Dropbox and Microsoft. Though the details of these services vary among companies, they generally focus on storing files on online servers as opposed to a local hard drive, so that multiple devices can have access to the data over an Internet connection. Apple is thinking about "a world where the personal cloud is rapidly displacing the personal computer as the center of the consumer's digital life" said Michael Gartenberg, an industry analyst with Gartner. With the Mountain Lion update, Apple is calling the overall operating system OS X, instead of Mac OS X. This move and the continuing convergence between Macs and iOS devices raises questions about whether one day, the two products will run the same operating system. Mr. Gartenberg said he did not think that would be the case.

"When you try to unify those devices, you end up with weird devices," he said. Apple is creating a similar look and feel for the two operating systems to create a sense of familiarity among its different computing platforms, which could make customers more loyal to the brand, Mr. Gartenberg said. "Consumers don't like change and they don't like uncertainty," said Stephen Baker, vice president for industry analysis at the NPD Group. "When I, as the consumer, know that I can get a consistent experience across all my devices, it makes it much easier for me to buy products from that company since I know the learning curve will be short." Apple released the early version of Mountain Lion on Thursday for software makers to get a head start on making



apps for the operating system. The official Mountain Lion upgrade is due for release this summer, one year after the release of Mac OS X Lion, Apple's current Mac operating system. An Apple spokesman said no executives were available to comment.

The annual release schedule for OS X upgrades shows that Apple is still pushing Mac products, even though the iPad and iPhone account for 72 percent of the company's total revenue. But many features in Mountain Lion are already in iOS, so it appears that the Mac is still in the back seat. "Apple's future is iOS," said Phillip Ryu, chief executive of Impending, a company that makes iPhone apps. "It's obvious OS X is playing catch-up and second fiddle. The Mac is in Apple's future, but it's not the destination."

**By: Shivaranjini Bhat,  
(S.E.I.T)**



## Write-Protect Your USB Flash Drive

Many a time, it becomes necessary for us to write protect our USB flash drive so as to protect it from viruses and other malware programs. Because flash drives are so popular and most widely used to move data between computers, they are the prime target for attackers as a means to get infections spread around the computer world. Also, since USB drive is not a Read-Only Memory (ROM), the data inside it can easily be modified or deleted by malware programs.

This can be done by adding a small entry to the Windows registry which acts as a switch that can be enabled to make use of the write protection or disabled to allow write access.

Just follow these steps:

1. Open the Registry Editor (Open the "Run" dialog box, type regedit and hit "Enter").

2. Navigate to the following Registry key:

HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\

3. Create a New Key named as Storage Device Policies. To do this right-click on Control, and click on

New->Key and name it as Storage Device Policies.

4. Now right-click on Storage Device Policies and create a New->DWORD (32-bit) Value and name it as Write Protect.

5. Double-click on Write Protect and set the Value data to 1.

Now the write-protection for USB drives is enabled on your computer and thus it would not be possible for anyone or any program to add/delete the contents from your USB flash drive.

To revert and remove the write-protection, all you need to do is just change the Value data for WriteProtect (Step-5) from 1 back to 0. Now write access to all the USB devices is re-enabled.

Sometimes it may seem difficult to remember and follow the above mentioned steps each time you want to enable/disable the write protection. Hence as an alternative way, there are many tools available to automatically enable/disable the write-protection feature. One of them is "USB Write Protect" by Naresh Manadhar. Using this tool you can limit write access to your USB drives with just a click of a button



# "USB WRITE PROTECT SOFTWARE".

**USB Write Protect - USB Device Security Protection**

Developed By:  
Naresh Marandhar  
E-mail: nareshmrd@yahoo.com  
URL: <http://www.narcalms.com.np>

**USB Write Protect**  
USB Device Security Protection

**USB Device Write Protection**  
Protects valuable file(s) containing in your USB storage devices from being accidentally modified or deleted  
Write Protection Status:  Disabled  Enable

**USB Device Lock**  
Locks or prevents unauthorized users from connecting USB storage devices.  
Lock/Prevention Status:  Unlocked  Lock

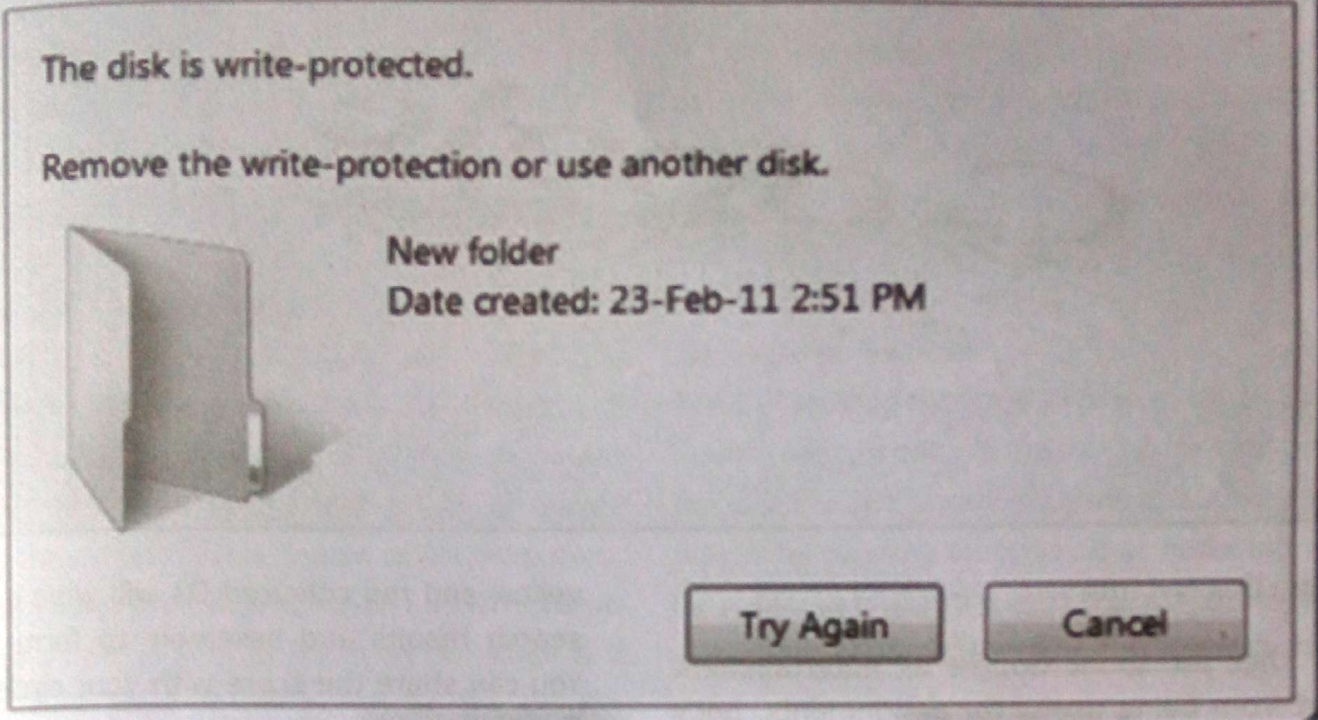
**USB Device Autorun**  
Prevents USB Devices from automatically running malicious programs.  
USB Autorun Status:  Disabled  Enable

**USB Storage Devices:**  
1 device(s) detected: Rohit Langde (J:)

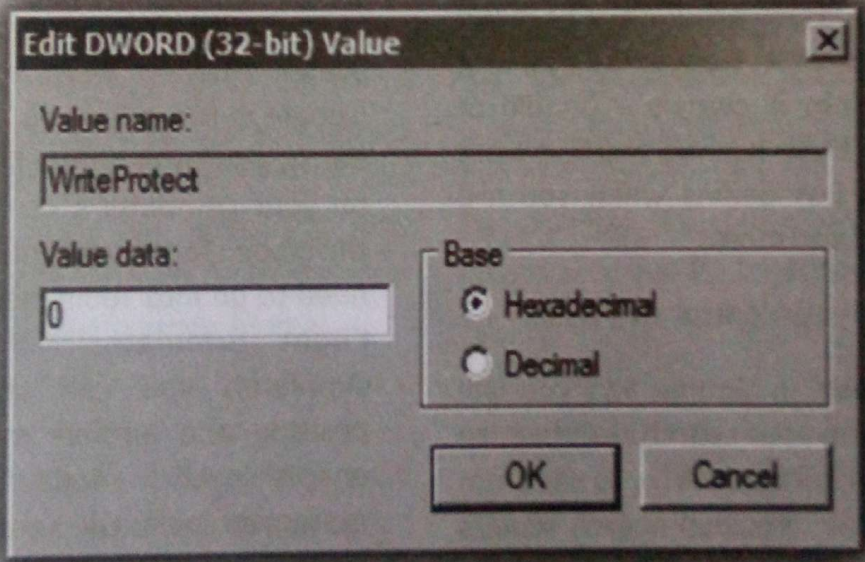
**i** If USB storage device(s) are already plugged into the computer please, remove and re-attach to take changes in effect.  
If you are using Windows 7 or Vista, please run this program as an 'Administrator' by right clicking on the icon of this program and clicking on 'Run as administrator'.



### Copy Folder



PROMPT THAT WOULD BE DISPLAYED WHILE WRITING TO A WRITE PROTECTED USB FLASH DRIVE



IN ORDER TO MAKE THE FLASH DRIVE AGAIN AS REWRITABLE JUST CHANGE THE VALUE DATA AS TO "0"

By : Mohit Shah  
(BE-IT)





## Fun Facts & Tricks about Google!!



Google tips and tricks.

Ever thought about Google as entertainment apart from being useful for assignments, ppt's and program codes???

Yes indeed Google can be explored a way lot than we can imagine. Here a few ways to make Google the best at its best. Google is not just a popular search engine; it can be a bundle of surprise sometimes. From helping you find what you need to play a few games when you are bored, it does all that and more.

1) Zerg Rush - Check your control on Mouse!!

Just punch 'Zerg Rush' in Google and you will find yourself defending your search results from an onslaught of zerglings that will try to eat them up. Want to save your precious search results from being obliterated? Just repeatedly click on the dastardly zerglings (which) are basically red and yellow coloured Os) to eliminate them. What's more, Google is keeping score! A widget on the right side of the screen will show how many times you clicked to kill the enemy and the number you killed. If you are unsuccessful, the

yellow and red coloured Os will wipe out all search results and assemble to form 'GG'. You can share the score with your circles on Google+ or clear the game and move on to search results.

2) Flight Simulator - Your Dream to Be a Pilot comes true!! : Want to fly a fighter jet? Google is there for you. While using Google Earth, you can enjoy a flight simulation right on your computer's screen and 'fly' around the globe. To activate this feature, you simply need to go into Tools menu and select 'Enter Flight Simulator'. Upon starting the simulator, you can choose the starting position and aircraft model. You can also enable joystick mode for the flight if your system supports the hardware.

3) Pac Man - Return Gift: All of us remember Pac Man, the arcade game, but it has become outdated in the days of HD games. But if you still want to play it, just hit Google. On the 30th anniversary of the game, the search giant made an interactive doodle that allowed users to play it using their keyboards



4) Barrel Roll - Rotate rotate: Another cool Google trick that has been doing the rounds on the internet is the barrel roll. Just type 'does a barrel roll' in your browser and you will see the whole page spin 360-degrees once. Just refresh the page to see the effect again and again.

5) Virtual Guitar Play Me!!

Another cool interactive doodle was created on the 96th birthday of Les Paul, the inventor of solid-body electric guitar. Google's logo was redone to form a guitar that could be played using the cursor of the mouse or the keyboard. You can even record your tunes and Google will upload it on the web, so that you can listen to it again and save it as a media file on the computer.

6) Hurdles - Let's Race!!

During the London Olympics 2012, Google made a doodle for Hurdles, where a runner jumps over obstacles. This is an interactive doodle and allows you to race using the keyboard, with increasing level of difficulty. You can set your best score and even challenge your friends.

7) Moog Synthesizer

In 1960s and 70s, Moog Synthesizer was used by top musicians across the world to add depth to their music. Now you can do that too, as the

world to add depth to their music. Now you can do that too, as the synthesizer can be controlled from keyboard as well as the mouse and consists of features like mixer, oscillators, filters and envelope, which you can tinker with. You can record your own music and listen as well as share it on the web

8) Snake on YouTube

Tired of waiting for the YouTube video to buffer? Then you can play a round of 'Snake' in the meantime. The popular game of 1970s can be played by pausing an ongoing or buffering video by pressing either the left, right or down arrow key, immediately followed by the up arrow key.

9) Price range in search

Looking for a laptop in a set budget and can't afford to go above that? Well Google will help you find the products in your exact budget. Just remember to type 'Product Rs x...y' in the search bar and viola! your exact options will show up. For example, if you want an Android Smartphone priced between Rs 10,000 and 15,000, you need to search 'Android Smartphone Rs 10000...15000?.'

**By: Sherin Benchaman**  
(S.E.I.T)



## Test Your Antivirus



Nowadays antivirus is the major concern of all computer owners, off course nobody wants a hazardous virus fiddling around with your data and then compelling you to start over your precious collection, important data, rarely found stuffs which took you quite a while to fetch. So making sure that your antivirus is worth it is required. Be it the smallest threat in your PC or the one's weighing more, Antivirus should be able to handle it in the smoothest manner possible without interfering with your data and without making you to regret installing it. For the above you need to just need to test your antivirus to go through a text file which is called as EICAR Standard Antivirus Test File

### What is EICAR Standard Antivirus Test File???

The EICAR Standard Anti-Virus Test File or EICAR test file is a computer file that was developed by the European Institute for Computer Antivirus Research (EICAR) and Computer (CARO), to test the response of computer antivirus (AV) programs. Instead of using real malware, which could do real damage, this test file allows people to test anti-virus

software without having to use a real computer virus.

Anti-virus programmers set the EICAR string as a verified virus, similar to other identified signatures. A compliant virus scanner, when detecting the file, will respond in exactly the same manner as if it found a harmful virus. Note that not all virus scanners are compliant, and some may not detect the file even when they are correctly configured.

The use of the EICAR test string can be more versatile than straightforward detection: a file containing the EICAR test string can be compressed or archived, and then the antivirus software can be run to see whether it can detect the test string in the compressed file.

### JUST FOLLOW THE GIVEN STEPS AND TEST YOUE ANTIVIRUS.

1. Update your antivirus.
2. Open notepad and copy the code given below.



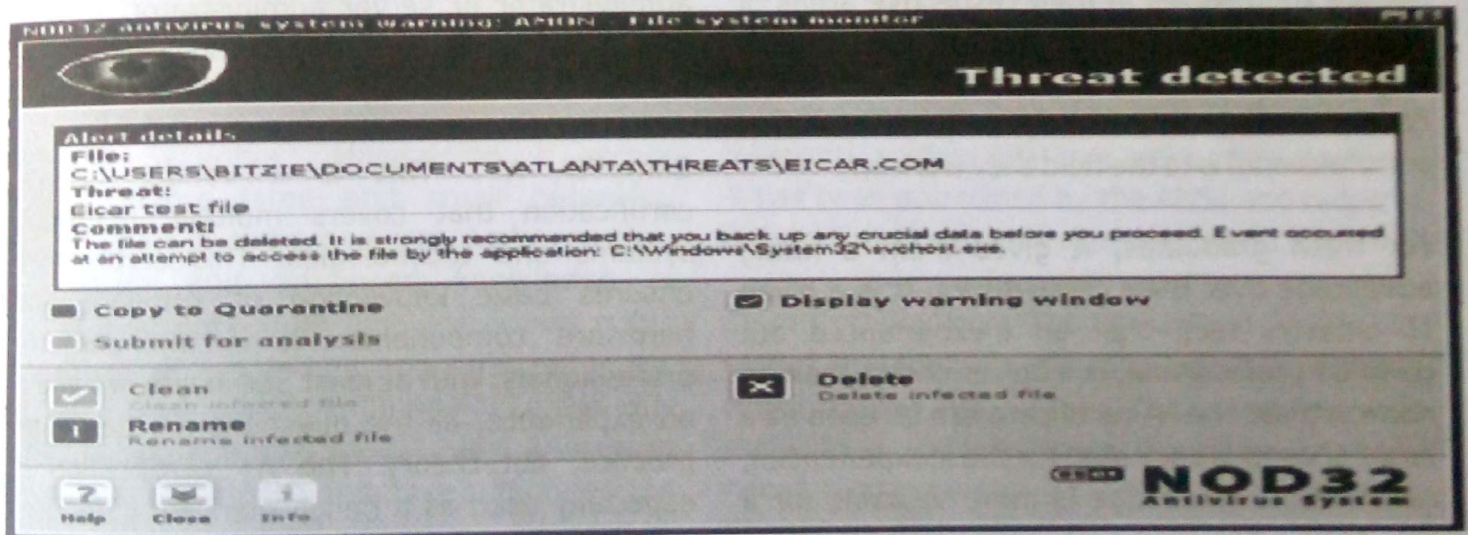
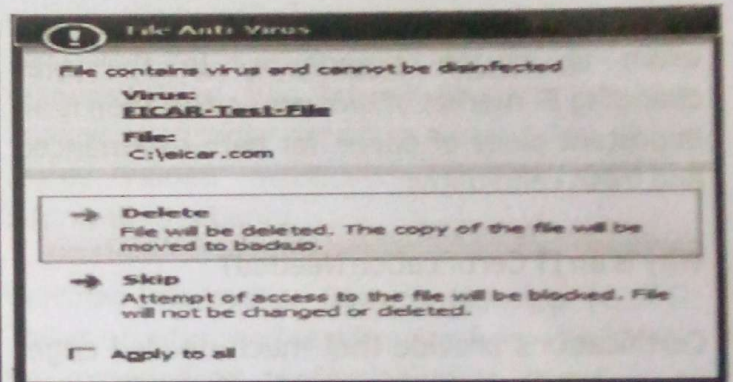
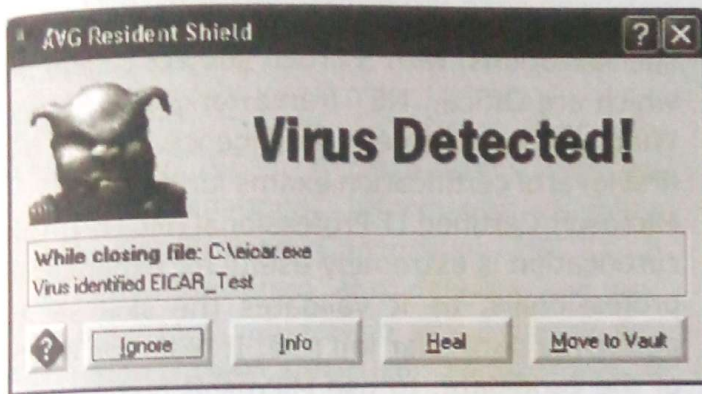
X50!P%@AP [4\PZX54 (P^ 7CC) 7}\$EICAR-STANDARD-ANTIVIRUS-TEST-FILE!\$H+H\*

- 3. Save this file as " myfile.com " (name can be anything but extension should be .com)
- 4. If your antivirus is smart enough then it'll automatically detect and delete this while when you'll create else just right click on this file and

scan it with your antivirus.

5. If your antivirus detects and deletes this file then congratulations....Your antivirus works fine...

6. If NOT then God bless your computer. RESULTS THAT POPPED OUT OF SOME ANITVIRUSES AFTER DETECTING "EICAR.COM"



By: Mohit Shah (B.E.I.T)





## BOOST-UP YOUR IT CAREER

What you can do to add to your qualification???

### BEST IT CERTIFICATES FOR 2013

An IT certification is no ordinary exam. It is not a simple case of studying from textbooks and study material. IT Certifications require a good combination of practical and technical know-how. While majority are multiple choice questions, some certifications require a practical exam or on-job experience. In the ever changing IT market of today, a certification is an important piece of paper, for both experienced and fresh candidates.

#### Why is an IT Certification Needed?

Certifications provide that much-needed edge, which differentiates one professional from the other. It gives experienced workers a chance to update themselves in their respective areas of expertise. Instead of going in for another degree, they can add to their education with a certification. Certifications prove how dedicated a professional is to the field they work in.

For fresh graduates, it gives them a hiring advantage over their competitors. It is a given IT industry fact, that an inexperienced but certified professional, is a better choice than a non-certified one. A certificate can be used as a proof of competency. And for the inexperienced, certification knowledge is more valuable for a job, than what they may have learned during their education. For example, during a four-year degree course in engineering, one learns a little bit of different languages, like Java or SQL. But when a student of engineering is considered for a job, if certified in SQL, that individual is more valuable to an organization, since he is already

well versed in the specific technology.

### Best In-Demand IT Certifications

**Microsoft Certified Technology Specialist (MCTS):** This certification tests your skills and expertise in a specific technology. For example, the MCTS ASP.NET certification focuses on the .NET 3.5 ASP.NET suite. There are currently 20 specializations, with 5 broad subject categories which are Office, .NET framework, SQL Server, Windows and business intelligence. This is the first level of certification exams for Microsoft.

**Microsoft Certified IT Professional (MCTIP):** This certification is extremely useful for experienced professionals, as it validates the skill set to perform a particular job role. It tests the ability of the candidate, to use Microsoft technologies in performing an IT job role, like database administrator or server administrator. To give this exam, one or more compulsory MCTS certifications must be obtained first.

**CompTIA A+:** This is a vendor neutral certification that covers multiple operating systems and technologies. This certification ensures basic knowledge of software and hardware components. It is intended for professionals, with at least 500 hours of hands-on experience, as the questions are based on practice, not theory. The A+ certification is especially used as a bench mark for computer support technicians, as the key exam areas are installation, networking, maintenance and troubleshooting of computer systems.

**Apple Certified Technical Coordinator (ACTC):** For those interested in working with the Mac OS X, this is one rare and necessary



certification. It targets entry-level system administrators, who provide support for and maintain Mac OS X client server environment.

**Red Hat Certified System Administrator (RHCSA):** Red Hat certifications are the best and most sought-after Linux certifications. They carry out actual practical exams, instead of the normal multiple choice questions. The RHCSA is the entry level-exam to pursue a Red Hat certification. It deals with basic system administration and there is no experience prerequisite. It is the mandatory base exam for higher Red Hat certifications like RHCE.

**Certified Information Systems Security Professional (CISSP):** A certification from the nonprofit International Information Systems Security Certification Consortium (ISC2). It deals with information and network security, highly important subjects in any industry and organization. This particular certification is accredited by ANSI, and is highly regarded as an information systems standard. It requires a minimum of 5 years, full-time, security work experience.

**CompTIA Security+:** Maintaining a secure system, across large and small networks, involves a lot of steps and technical expertise. The basics and advanced knowledge of computer security, from handling access rights to cryptography, is taught and validated in the Security+ certificate from CompTia. To take this exam, the professional should have 2 years of networking experience and have completed the CompTia Network+ certification.

**Certified Ethical Hacker (CEH):** An ethical hacker or penetration tester is employed by a company, to attempt to penetrate or hack into the network or computer systems, so that weaknesses and

failings in their security system can be exposed. As illegal hacking is rapidly becoming a serious threat in any organization, ethical hacking is gaining popularity as a popular testing method for network security. This vendor neutral certification is provided by the International Council for E-Commerce Consultants.

**Global Information Assurance Certification (GIAC):** One of the leading institutions handling information security certifications, in a number of security disciplines. GIAC measures an individual's specific knowledge areas in the field of information security, for nearly 20 job specific responsibilities, like firewall analyst, intrusion analyst or security expert to name a few. It is a highly valued certification in the field of information security.

**Certified Information Security Manager (CISM):** This is an advanced certification from the ISACA, for experienced professionals in the field of information security. A CISM certificate exam validates an individual's management skills and know-how of large, enterprise-level information security handling. It is of key value to those trying to upgrade their job position, from that of a security professional to a managerial position. It has been accredited by the ANSI and requires at least 5 years of work experience in IT security.

**Cisco Certifications:** The networking field is the fastest and best IT field in terms of growth and opportunities. And Cisco is the brand leader in networking certifications. For any level of networking expertise, be it entry or experienced, Cisco has a certificate and in a variety of networking subjects like security, installation and design. Here are some of the best IT certifications for networking from Cisco:

**Cisco Certified Entry Networking Technician (CCENT)**

**CCNA (Cisco Certified Network Associate)** in Security, Voice, Wireless, Routing and



Switching

- Cisco Certified Security Professional (CCSP)
- Cisco Certified Wireless Professional (CCNP Wireless)
- Cisco Certified Network Professional (CCNP)

Project Management Professional (PMP): This certifies the management know-how and skills of an IT professional, in handling projects and tasks at a managerial level, within a budget and time limit. Its prerequisite is educational qualifications and experience. A PMP is a renowned and internationally accepted certification in the management field.

IT certifications have been a source of debate for industry experts. In recruiter's minds, the key factor for deciding to hire an individual is experience. However a certification cannot replace experience. Also, you can get pigeonholed in that technology, and your company might hesitate to promote you. Find out if a certification will result in a pay raise or make you considerable for a promotion. And see how flexible your schedule is, so that you can actually study for the exam. In the long run, your talent and skills are the key factors that contribute to your success in the IT field.

**By: Vishruti Mhatre**  
(T.E.I.T)



## 10 Hot IT Jobs for 2013

A study says worldwide IT spending will increase 3.8 percent in 2013 to reach \$3.7 trillion, and that excitement for big data is leading the way. By 2015, the analyst and market research firm says, 4.4 million jobs will be created to support big data. And beyond big data the demand for IT employees keeps growing as well.

Here are 10 hot IT jobs predicted for 2013 and beyond.

1. Data Scientist
2. Database Administrator
3. Network Architect
4. Application Developer
5. Business Intelligence Analyst
6. Mobile Application Developer
7. Database Portal Administrators
8. Data Security Analyst
9. Software Engineer
10. Systems Analyst

**By: Shruti Meshram**  
(B.E.I.T.)



**INFORMATION TECHNOLOGY TOPPERS  
(2012-2013)**

<b>Rank</b>	<b>Name</b>	<b>Percentage</b>
1.	Ashutosh Sharma	78.33%
2.	Bhagyashree Kulkarni	78.20%
3.	Riddhi Patil	76.46%
4.	Binoli Mhatre	76.20%
5.	Sonali Deshpande	76.00%

**PLACEMENT RECORD OF INFORMATION TECHNOLOGY  
(2012-2013)**

<b>Sr. No.</b>	<b>Name</b>	<b>Company</b>
1.	Amey Choudhari	Bristlecone
2.	Ashish Jha	TCS
3.	Ashutosh Sharma	TCS
4.	Bhagyashree Kulkarni	TCS
5.	Karishma Mitra	TCS
6.	Manali Save	TCS
7.	Sneha Raman	TCS
8.	Sonali Deshpande	TCS
9.	Sonal Raval	TCS
10.	Surupa Chatterjee	TCS



# OM SAI COMPUTERS

COMPUTER PERIPHERALS & MAINTENANCE  
Specialist in repairs of all types of Dot matrix, Inkjet, Laser jet printers & Plotters

## COMPUTER SALES & SERVICES

COMPLETE COMPUTER RELATED SOLUTIONS

### CHIP LEVEL REPAIRS OF COMPUTERS PERIPHERALS

viz - All types of Printers, Monitors, Printer heads,  
Mother boards, ROMs, SMPS, HUBs etc.

HARDWARE AND SOFTWARE SOLUTIONS

AMC's FOR PCs

## CALL FOR BEST SERVICE

Address: 305, Mohan Residency II, 3rd Floor,  
Opp Rly Subway, Behind HDFC Bank, Virar(East)-401 305  
Mob: 9323122869/9673736313 Off: 9321901686

## G SYSTEM

Dealing in all kinds of



COMPUTERS



TABLET



CCTV PRODUCTS

Authorized dealer of WIPRO , LENOVO range of IT products & also  
authorized partner for CP-PLUS CCTV range of products.

Contact details : 022-26822313/9322590569/9320060555

Email : [gaurang@gssystem.co.in](mailto:gaurang@gssystem.co.in)

ADD:- 12,RADHIKA NIWAS M.V.ROAD, ANDHERI-EAST MUMBAI-068





VASAI NALLASOPARA VIRAR

₹0 Down Payment



Free download of music content for 1 year\*



# MicroAge Computers

2, Below Hotel Vrindavan , Near SBI Bank , Navghar. Vasai (W).  
Vasai : 2343767 N'sopara : 88888 17838 Virar : 88888 17837

## Just Pay 300/- & Take Home PC

**HP Connected Music**

