A BI-MONTHLY BONANZA BY STUDENTS June-July,2014

KONGU ARTS AND SCIENCE COLLEGE

50



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CONTENT

1.	INTERVIEW PEDIA	1
2.	BLUESTACKS APP PLAYER	3
3.	BRAIN-COMPUTER INTERFACES	5
4.	GOOGLE DRIVERLESS CAR	7
5.	HP 14-INCH ANDROID LAPTOP	9
6.	PEN THAT DRAWS ANY COLOUR	11
7.	PEPPER, ROBOT WITH EMOTIONS	13
8.	SCREEN-LESS DISPLAY	15
9.	SEAGATE'S 5TB HARD DRIVE	17
10.	SMART GLASSES	19
11.	WINDOWS 9	21
12.	HIKE MESSENGER APPLICATION	23
13.	FAMOUS AND FAVOURITE	25
14.	IT VITA	26
15.	MIND PUNCH	27
16	SOLUTIONS	29



INTERVIEW PEDIA





Fashion trends change, but the essence of style remains same: look your best, look current but not trendy, and wear what looks good on you. Interviewing has its own etiquette and protocol. If you are applying for any kind of job, you need to be aware of the impact on the interviewer of what you wear.

The stats show that over 80% of a hiring authority's decision is based on you "look and sound!" So, make sure your clothes help you. You definitely don't want your clothes to become the reason you were not selected for further consideration.

Here are some of the aspects of Dress code you need to follow for your interviews.....

Men and Women

The common ideas both for Men and Women are listed below:

- Conservative two-piece business suit (solid dark blue or grey is best).
- Conservative long-sleeved shirt/blouse (white is best).
- Clean, polished conservative shoes.
- Well-groomed hairstyle.
- Clean, trimmed finger nails.
- Minimal Body spray or perfume. It should not be dominant.
- Empty pockets-no bulges or tinkling coins.
- No chewing gums, candies or cigarettes.
- Light briefcase or portfolio case is preferred.
- File with certificates should be should be easily accessible.
- No visible body piercing (nose rings, eyebrow rings, etc.)
- Avoid hair bleaching and coloring.
- Put mobiles in silent mode.

Men

The additional ideas for Men are listed below:

- White and other light colored shirts are best for your interview.
- Always wear a long-sleeved dress shirt to your interview and for all business occasions.

nbolics.com is the first and oldest registered domain name It completed 28 years on 15th March, 2013.

- Collar should be smooth around the neck and allow for an index finger of breathing room.
- Necktie should be silk with a conservative pattern but not flashy. The tie color should match your shirt/suit color. Selecting subtle or simple patterns enhances credibility.
- When coordinating colors, remember, [leather to leather and metal to metal]. Always match the color of your belt with your shoes and the color of your belt buckle with your watch.
- Wear jewelry sparingly for your interviews. In some settings, it may detract from your professional appearance. Limit yourself to one ring per hand.
- Dark shoes (black lace-ups are best) conservative, clean, and polished. Shoes without laces are also allowed, but it should be formal in appearance.
- Dark socks (black is best). Socks should match in color to your suit like, Black with black, gray with gray. Black socks are acceptable for dark colored suits, though a closer match is more desirable.
 - Suit includes: a matching jacket and pants, shirt, tie, coordinating socks and shoes.
- Get a haircut; short hair always fares best in interviews.
- No beards.
- Mustaches are a possible negative, but if you must, make sure it is neat & trimmed.
- No earrings (if you normally wear one, take it out and leave it in home!)

Women

- Formal Sarees / Chudidhars / Suits.
- Shawls and Fleets should be neatly pinned.
- Anything tight, bright, short, or sheer should absolutely be avoided.
- Your hair should be neat, clean, and conservatively styled. Bigger clips, brightlycolored bands or elastics, and cheerleader-type ponytails look out of place with your attire. Prefer Back pleats, buns with net, pulled back low ponytail, or wear a barrette. Avoid free hair.
- Use mild eyeliners for brows and lashes.
- Formal Shoes covered front with conservative heels.
- No purses, small or large; carry a briefcase instead.
- Avoid modern handbags.
- If you wear nail polish (not required), use clear or a conservative color.
- Minimal use of makeup (it should not be too noticeable).
- No more than one ring on each hand.
- One set of earrings only.

Ultimately, the most important thing to remember is to make sure you look well dressed and current in terms of fashion, so that your appearance never becomes an issue and the interviewer can focus on what you say, not on what you wear.

Prepared by Staff-Editor

BlueStacks App Player

- Runs Android Applications on Your Windows PC BlueStacks App Player runs Android applications such as Talking Tom 2 within Windows. Once you've downloaded the app onto a PC, an icon of the Android robot standing on the Windows logo will appear on the top right-hand corner of the Windows desktop screen. When you position the cursor on the Android icon, a menu of more than 10 default apps appears; you can open any of these apps with one click. You can also use your system's mouse and keyboard to interact with the Android apps on your PC.



To exit any Android app, simply click the *close window* icon on the bottom left-hand corner of the screen. To open a Windows program running in the background, without closing BlueStacks App Player, press the keyboard's **Alt** and **Tab** keys.

BlueStacks App Player runs the same way as any other application on Windows. You access BlueStacks and the apps running on it just as you would an Internet browser, word processor, or other Windows app, without slowing down your computer. The BlueStacks App Player runs applications from a different operating system on Windows without requiring you to install a separate operating system or console. And since the player runs on Windows, you don't have to boot into another OS to run the apps on your PC.

To add an app to BlueStacks App Player, click the *BlueStacks Channels* icon. There, you'll find listings for dozens of other Android apps, which you can download with your Web browser by clicking the app icon.

BlueStacks also offers Cloud Connect, for transferring apps from an Android phone to a PC or tablet. To accomplish this, you must first install BlueStacks on your Android phone and then upload apps to the cloud version of BlueStacks Cloud Connect for download to your PC or tablet. Though the feature isn't available in the alpha version, the final version of BlueStacks App Player will let you download apps from the Android Store.



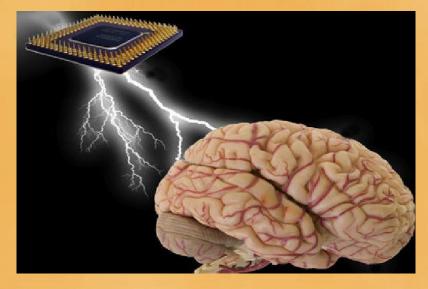
BlueStacks App Player requires Windows 8, 7 or Vista, at least 2GB memory, and an Intel Core 2 Duo or more-powerful processor. I would have preferred compatibility with Windows XP and Linux as well.

BlueStacks will launch a final version of BlueStacks App Player Pro soon, for a yet-to-be announced price. The company promises that a free version will remain available, however. For those users with PCs or tablets that meet the Windows operating system and hardware requirements, and who want to run Android apps on their PCs, BlueStacks App Player is well worth the free download.

> Every minute, 10 hours of videos are uploaded on, YouTube.

Brain-computer Interfaces

The ability to control a computer using only the power of the mind is closer than one might think. Braincomputer interfaces, where computers can read and interpret signals directly from the brain, have already achieved clinical success in allowing quadriplegics, those suffering "locked-in syndrome" or people who have had a stroke to move their own wheelchairs or even drink coffee from a cup by controlling the action of a robotic arm with their brain waves.

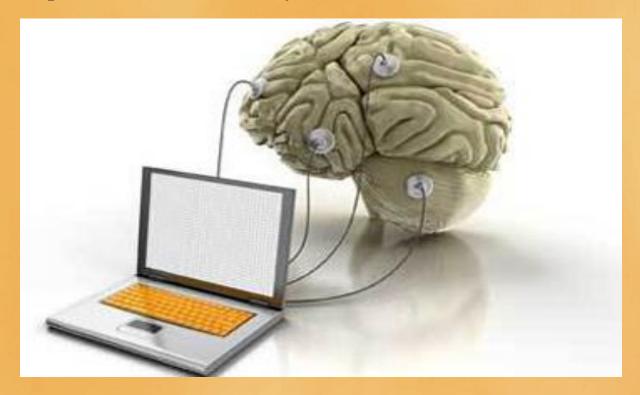


In addition, direct brain implants have helped restore partial vision to people who have lost their sight

Recent research has focused on the possibility of using brain-computer interfaces to connect different brains together directly. Researchers at Duke University last year reported successfully connecting the brains of two mice over the Internet (into what was termed a "brain net") where mice in different countries were able to cooperate to perform simple tasks to generate a reward.

Scientists at Harvard University reported that they were able to establish a functional link between the brains of a rat and a human with a non-invasive, computer-tobrain interface.

Other research projects have focused on manipulating or directly implanting memories from a computer into the brain. MIT researchers reported having successfully implanted a false memory into the brain of a mouse.



In humans, the ability to directly manipulate memories might have an application in the treatment of posttraumatic stress disorder, while in the longer term; information may be uploaded into human brains in the manner of a computer file. Of course, numerous ethical issues are also clearly raised by this rapidly advancing field.

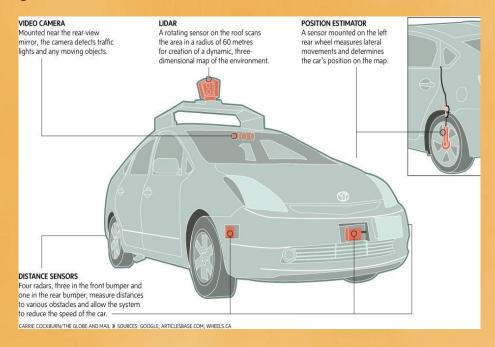
Tim Berners-Lee coined the phrase,

World Wide Web" in 1990.

Google Driverless Car

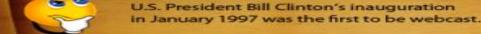
The Google Self-Driving Car is a project by Google that involves developing technology for autonomous cars. The software powering Google's cars is called Google Chauffeur. Lettering on the side of each car identifies it as a "self-driving car".

The project is currently being led by Google engineer Sebastian Thrun, former director of the Stanford Artificial Intelligence Laboratory and co-inventor of Google Street View. Thrun's team at Stanford created the robotic vehicle Stanley which won the 2005 DARPA Grand Challenge and its US\$2 million prize from the United States Department of Defense.



The team developing the system consisted of 15 engineers working for Google, including Chris Urmson, Mike Montemerlo, and Anthony Levandowski who had worked on the DARPA Grand and Urban Challenges. The U.S. state of Nevada passed law permitting the operation of autonomous cars in Nevada. Google had been lobbying for robotic car laws.

The license was issued to a Toyota Prius modified with Google's experimental driverless technology. Florida became the second state to allow the testing of autonomous cars on public roads.



California became the third state to legalize the use of selfdriven cars. when Governor Jerry Brown signed the bill into law at Google HQ in Mountain View.

Governor Rick Snyder signed legislation allowing the testing of automated or self-driving vehicles on Michigan's but this legislation requires a human in the driver seat at all times while the vehicle is in use.

In Europe, Germany, Netherlands and Spain have allowed testing robotic cars in traffic. Also Finland is planning on passing a law before 2015.



Google presented a new prototype of their driverless car that doesn't have a steering wheel or pedals.

The project team has equipped a test group of at least ten cars, consisting of six Toyota Prius, an Audi TT, and three Lexus RX450h, each accompanied in the driver's seat by one of a dozen drivers with unblemished driving records and in the passenger seat by one of Google's engineers.

A human-controlled Google driverless car was involved in a crash near Google headquarters in Mountain View; CA. Google has stated that the car was being driven manually at the time of the accident. A previous incident involved a Google driverless car being rear-ended while stopped at a traffic light. Google says that neither of these incidents were the fault of Google's car but the fault of other humans operating the cars.

HP 14-inch Android laptop

HP unveiled an 11-inch Chrome book and a 14-inch Android laptop ahead of Computex 2014, along with a Chrome box. Hewlett-Packard (HP) unveiled Googlepowered laptops ahead of Computex 2014 in Taiwan.

The company unveiled an 11-inch Chrome book and a 14-inch Android laptop at its event, along with a Chrome box.



Chrome book 11, running on Chrome OS, features an IPS display with resolution of 1366x768p and runs on the ARM-based dual-core Samsung Exynos 5350 processor, clocked at 1.7GHz.

The device has 16GB storage, 2GB RAM, Bluetooth, two USB ports and a battery that lasts approximately six hours. It has a front-facing VGA camera and sports dual-tone colour option. HP's latest Android laptop, Slate book 14, has a Full HD display and runs on Kit Kat. Under the hood, it packs a quadcore Nvidia Tegra 4 processor and 2GB RAM.

It has a battery that works for nine hours in one charge and colour option is black-and-yellow. Alongside Google Play app store are HP's own app marketplace and Nvidia's Tegrazone.



HP's Chrome box Mini is a small form-factor PC and aimed at small businesses. Powered by Chrome OS, it has 16GB builtin storage, up 8GB RAM options, four USB ports, HDMI and Display Port, Bluetooth 4.0 and SD card reader. It comes with options of Intel's Haswell i7 4600 and Celeron 2955U processor.

The new Chrome book 11, Slate book 14 and Chrome box Mini are priced at \$249, \$399 and \$299, respectively.

Pen That Lets You Draw Any Color in the World

The Scribble pen claims to be able to draw any color you can scan A pen that combines an RGB sensor and a fivecolor ink cartridge allows artists to match any pigment they can see.

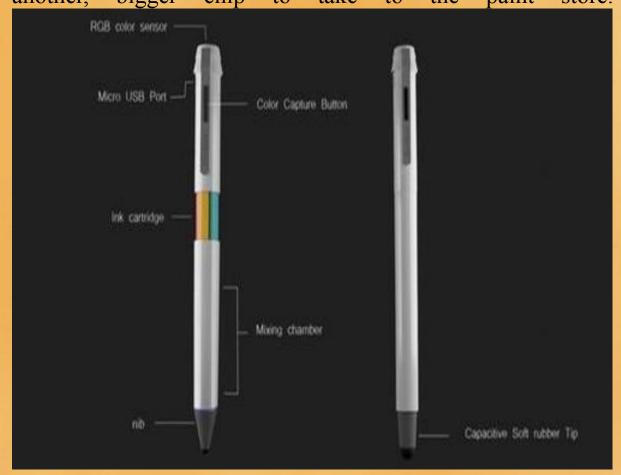
"For the color blind, kids, interior decorators, homeowners, teachers, artists, photographers, designers and students the Scribble color picker pen will make copying an exact color, any color from any object and absolute breeze.



The scanner is located at the top of the pen, and when pointed at any consistent color will allow the pen to save the shade and match it with an appropriate combination of inks. Scribble's manufacturers claim it is capable of storing 100,000 colors in its internal memory, and runs on a lithium-ion (and therefore rechargeable) battery. The weight is just 39grams, making it easy to operate.

For those who consider paper there is a stylus with the same capacities that can be used on digital devices at little more than half the cost.

The front door on our 100-year-old house is painted a great shade of red, but there's a big chip out of it. I've wanted to touch up the spot, but how to get the right paint color? A photo would be way off, and I'm kind of afraid to scrape off another, bigger chip to take to the paint store.



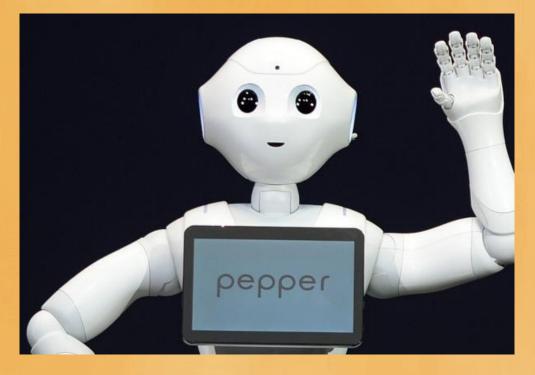
Both versions will use Bluetooth technology or Micro-USB cables to communicate with your computer and other devices, and will measure about 6.3 inches long. A Scribble pen uses 16-bit color sensors to sample the world and can store up to 100,000 different colors.

More than 3 billion USB products are shipped every year.

Pepper, the robot that can read your emotions

The major selling point of this robot, as highlighted by the developers, is that it is capable of emotional instruction with the people in its life.

We all have emotional interactions with technology in our lives. You only have to watch someone try to deal with a frozen computer, a stubborn car or a new Smartphone to see how intense those emotions can be. But Pepper will not just be the recipient of one-way emotion; it will be able to recognize your emotions and learn to respond appropriately.

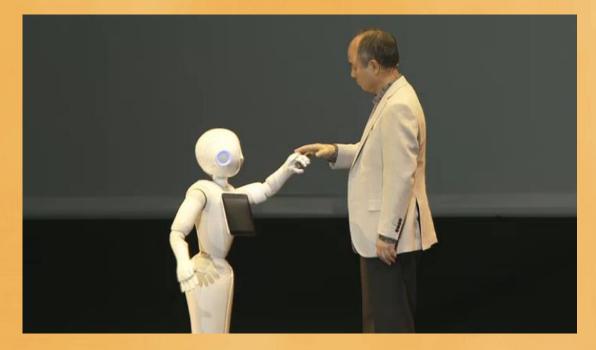


This ability has two parts. First Pepper must be able to recognize your emotions. This is a problem that has been tackled in many ways in artificial intelligence, from using facial expressions to body posture to voice tone.

It is not clear which exact approach Pepper is taking, but, if it is based on existing technology, it is likely that it will make simple, shallow connections between easily observed features and a pre-defined emotion. It will associate a frown with sadness or a smile with happiness.

To make this work well you need both a sensible set of emotions to recognize and an algorithm capable of recognizing the connected features reliably. Unfortunately psychologists are a long way from agreeing on a theory of emotions, and most recognition systems struggle when presented with the range of sensory inputs experienced by robots in everyday situations such as different head angles, heights and lighting.

The robot, developed by Japanese company Softbank, uses sensors to read your mood, and will be released next year; Pepper marks a historic moment in robot design.



The 1.2m, 28kg humanoid robot gets feedback about our moods via facial-recognition technology, cameras, audio records and sensors in its head. And instead of being programmed, Pepper learns how to behave over time to make you happy.

Their feedback is also uploaded to cloud storage so other units can modify their behavior accordingly. The rolling robot can also speak in 17 languages.

Screen-less Display

One of the more frustrating aspects of modern communications technology is that, as devices have miniaturized, they have become more difficult to interact with no one would type out a novel on a Smartphone.

The lack of space on screen-based displays provides a clear opportunity for screen less displays to fill the gap. Fullsized keyboards can already be projected onto a surface for users to interact with, without concern over whether it will fit into their pocket.



Perhaps evoking memories of the early Star Wars films, holographic images can now be generated in three dimensions; MIT's Media Lab reported a prototype inexpensive holographic color video display with the resolution of a standard TV. Screen less display may also be achieved by projecting images directly onto a person's retina, not only avoiding the need for weighty hardware, but also promising to safeguard privacy by allowing people to interact with computers without others sharing the same view.

One start-up company had already raised a substantial sum via Kick starter with the aim of commercializing a personal gaming and cinema device using retinal display. In the longer term, technology may allow synaptic interfaces that bypass the eye altogether, transmitting "visual" information directly to the brain.



This field saw rapid progress and appears set for imminent breakthroughs of scalable deployment of screen less display. Various companies have made significant breakthroughs in the field, including virtual reality headsets, bionic contact lenses, the development of mobile phones for the elderly and partially blind people, and hologram-like videos without the need for moving parts or glasses.

Seagate to produce 5TB hard drive next year, 20TB by 2020

The technology Seagate is touting -- shingled magnetic recording (SMR) - is needed more than ever.

Just as NAND flash is running up against a miniaturization wall, where the circuitry has little room to continue to shrink in size, hard drives face a similar density dilemma. The data tracks on a 1TB hard-drive platter cannot afford to shrink much more, according to Seagate.

Currently, Seagate's drives store data at up to 625Gbits per square inch of storage areal density. SMR is only one of several technology advancements pushing the limits of hard drive capacity.



Heat-assisted magnetic recording (HAMR) is expected to take disk drives to 5Tbits per square inch.

"With SMR technology, Seagate is on track to improve areal density by up to 25% or 1.25TB per disk, delivering hard drives with the lowest cost per gigabyte and reaching capacities of 5TB.

Seagate would not disclose which of its drive models today use SMR. It would only say that system makers that use them know they're using them.

The principle behind SMR is simple. With the technology, the tracks of a drive basically overlap like the shingles on a roof, thereby allowing Seagate to squeeze more tracks together.

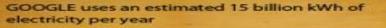
The density problem came about when Seagate and other drive manufacturers pressed the limits of how close they could squeeze tracks together on a drive platter. For a mental picture of platter tracks, think of an LP vinyl record, except on a microscopic level.



The closer the tracks of a drive platter are squeezed together, the more data can fit in a disk drive. But, the closer together the tracks get squeezed, the greater risk of data corruption and read errors that is, the read/write head of a hard disk drive cannot discern the difference between tracks.

In between the tracks are buffer areas to help the read/write heads track accurately.

Like stacking pancakes, more platters can be added to a drive, but that adds to the height of the drive.



SMART GLASSES TO HELP PEOPLE WITH POOR VISION

Oxford University researchers have developed smart glasses that can help people with limited vision navigate and avoid walking into obstacles.

The smart glasses consist of a video camera mounted on the frame of the glasses; a computer processing unit that is small enough to fit in a pocket; and software that provides images of objects close-by to the see-through displays in the eyepieces of the glasses.



The transparent electronic displays, where the glasses' lenses would be, give a simple image of nearby people and obstacles.

The camera with specially designed software interprets the nearby surroundings allowing people to see important things much more distinctly than before, such as kerbs, tables and chairs, or groups of people.

The glasses don't replace lost vision but assist with spatial awareness. Anyone using the glasses looks through them to make the most of their existing sight, with additional images appearing in their line of sight to give extra information about who or what is in front of them.

In some cases, details such as facial features can become easier to see - making social interaction more natural.

The glasses work particularly well in low light and can be used to cope with night blindness.

"The idea of the smart glasses is to give people with poor vision an aid that boosts their awareness of what's around them - allowing greater freedom, independence and confidence to get about, and a much improved quality of life," said Dr. Stephen Hicks of the Nuffield Department of Clinical Neurosciences at the University of Oxford, who is leading the development of the glasses.



Hicks' team has set up testing venues in Oxford and Cambridge where they can control the lighting and introduce obstacles to avoid.

Participants are tracked as they navigate through obstacle courses, with and without smart glasses. The study involves 30 volunteers with poor vision.

The researchers carried out preliminary tests last year of an earlier prototype with 20 volunteers having a range of eye conditions and levels of vision.

They found that people could quickly get used to the glasses, and it was the third of people with the lowest vision that really found benefits in using the glasses to get around and avoid obstacles.

Windows 8.2/Windows 9: Tipped to Feature Start Menu, Cloud Based Operating System.

Though earlier rumors suggested that the highly-anticipated Start menu restoration would happen with Windows 9 release, WZOR claims that the change will happen with the forthcoming Windows 8.2 update.

Furthermore, the Start menu UI tweak is widely speculated to be available on all touch and non-touch screen devices as part of the next-generation Metro interface that is likely to debut with Windows 9 release.



The tipster further hints that the Windows 9 update would be available as a free update, while Microsoft is yet to comment on the leaked information.

Microsoft is reportedly working on a prototype of Windows Desktop operating system with its focus on Windows Cloud, which will be a free download while additional functionality would require a subscription and an internet connection. Windows Cloud would still be operational offline, but with limited features just like Windows Starter edition, a budget version from Microsoft.

Windows 8.2 or Windows 9 is said to mirror a cloud-centric OS along the lines of Chrome OS with a much refined keyboard and mouse control unlike the original Windows 8 version.

Windows 9 will be 64-bit only, although we expected that for Windows 8 and we were wrong. A lot depends - as ever with Microsoft - on what OEMs want to build, and what Intel gives them with which to build.

One thing that Microsoft has to do is allow Windows Phone and

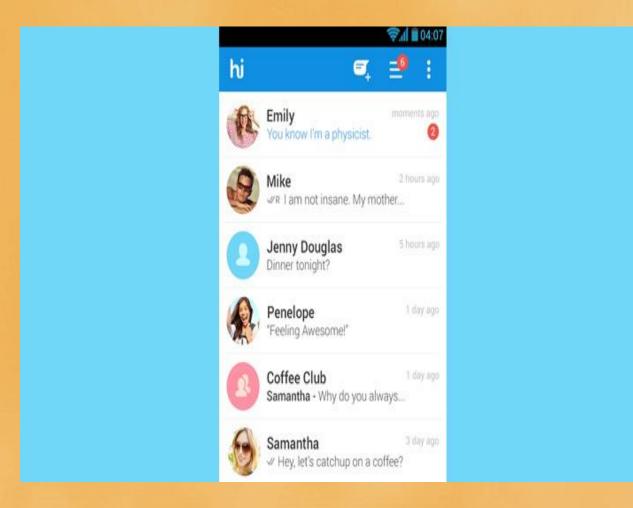


Windows RT apps to run on both Windows Phone and Windows. Even Xbox apps should become cross compatible. You may also be able to pin Metro apps to the taskbar. Also expect to see Kinect-based 3D gestures to be enabled for laptops with 3D cameras - basically the ability to control your computer with gestures.

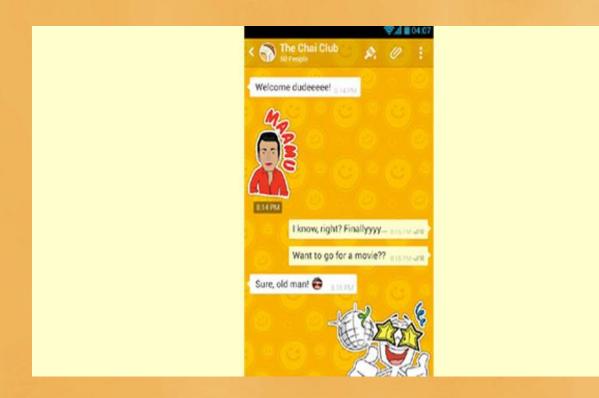
INDIA BASED HIKE MESSAGING APP CROSSES 20 MILLION USERS

Bharti Softbank's Hike messaging application is proudly boasting about crossing 20 million users just under four months after it hit the 15 million mark with regards to Indian and international fans. If you want to compare the numbers to what is arguably the world's most popular messenger service, then WhatsApp had 430 million users in January 2014.

At the same time, Hike has features that are unique to it and it's a free app too. But first, 20 million loyalists is not a figure to turn up your nose at and the company is reveling in achieving this milestone.



The application was launched in December 2012 and claims to have attracted 5 million users within 4 months. It was around this time that Bharti Softbank announced that it would be backing the messaging tool with \$7 million in investment. A couple of very handy facilities offered by Hike include Hidden Mode, Big File Transfer and an offline feature. The first mentioned allows you to keep chats from being seen by other people by locking them with passwords and no one would even know that there are hidden messages on your handset. Big File Transfer permits you to send or receive files as large as 100MB right through the messenger application.



For all those times friends claimed to have run out of data and thus been unable to see your messages, the Hike messaging detects the potential receiver's offline status and sends your note via SMS. And if they reply, the text gets back to you via the messaging application's interface itself. There's also a two way chat theme element which lets you change the Hike background on your phone as well as the receiver's device.

Though Hike has international users too, 90% of its base is from India and 80% of audiences from this country are under the age of 25 years. You can download the app for Windows Phone, iOS, Android, BlackBerry and Symbian devices.

FAMOUS AND FAVOURITE



BILL GATES

William Henry "Bill" Gates III (born October 28, 1955) is an American business magnate, philanthropist, investor, computer programmer, and inventor. Gates is the former chief executive and chairman of Microsoft, the world's largest personal-computer software company, which he cofounded with Paul Allen.

He is consistently ranked in the Forbes list of the world's wealthiest people and was the wealthiest overall from 1995 to 2009—excluding 2008, when he was ranked third in 2011 he was the wealthiest American and the world's second wealthiest person. According to the Bloomberg Billionaires List, Gates became the world's richest person again in May 2013, a position that he last held on the list in 2007. As of June 2014, he is still the richest.

During his career at Microsoft, Gates held the positions of CEO and chief software architect, and remains the largest individual shareholder, with 6.4 percent of the common stock. He has also authored and co-authored several books.

IT VITA

1. Which country created the most used networking software in 1980's?

2. In which year was the @ chosen for its use in email address?

3. Which American computer company is called Big Blue?

4. Who invented credited with the idea of using punch cards to control patterns in a waving machine?

5. What does SSL stands for?

6. What is the abbreviation MAC?

7. What does PPTP stands for?

8. The IBM PC-XT was the first to include a hard drive. What was the capacity of this disk?

9. In 1983 which person was the first to offer a definition of the term 'Computer Virus?

10. DTP computer abbreviation usually means?

11. Why would a switch be used in a network in preference to a HUB?

12. The term associated with the processing of comparison speed is?

13. For reproducing sound the CD audio player uses a?

14. Which Harder setting would indicate that the motherboard battery has failed?

15. Which is essential component of communication cycle?

TCP/IP was developed by Vint Cerf and Bob Kahn, while under contract at the U.S. Department of Defense.

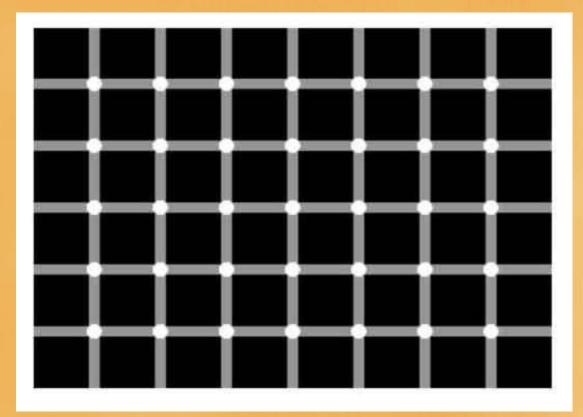
MIND PUNCH

Find out the meaning of pictures



The IBM Simon was the First Phone with a Touchscreen, released in 1992.

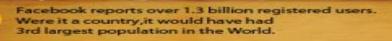
9. Count the black dots



10. Is this picture moving, or does it just appear that way?

SOLUTIONS

IT VITA	MIND PUNCH	
1.Novell	1. Growing economy	
2.1972	2. One right after another	
3.IBM	3. An inside job	
4.Jacquard	5. Thi histor job	
5. Secure Socket Layer	4. No u turn	
6. Media Access Control	5. Man in the moon	
7. Point to Point Tunneling Protocol	6. Scrambled eggs	
8. 10 Kb 9. Cohen	7. The beginning of the end	
10. Data type Programming 11. To reduce the network traffic	8. In between jobs	
12. MIPS	9. The number changes	
13. Laser Beam	constantly	
14. Date and time revert to default15. A message	10. The movement is illusory(imaginary)	



29

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SENSE OF GRATITUDE

The Editorial Board expresses its sincere gratitude to all those who are responsible, either by being on the stage or behind the screen for the successful launch of the Magazine...