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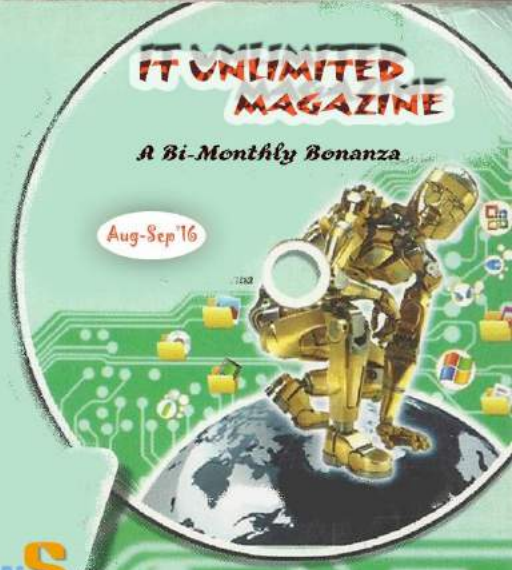

Issue-61

CYBERCREWS

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(Autonomous)

Department of Computer Science(UG)

CYBER CREWS ASSOCIATION

E-mail: itunlimitedmagazine@gmail.com

Website: www.kasc.ac.in

THOUGHTS OF THE ISSUE

61

REMEMBER

"If you can't make it good, at least make it look good."

Bill Gates

FREE ADVICE

	Pull the pin. This will allow you to discharge the extinguisher.
	Aim at the base of the fire. If you aim at the flames (which is frequently the temptation), the extinguishing agent will fly right through and do no good. You want to hit the fuel.
	Squeeze the top handle or lever. This depresses a button that releases the pressurized extinguishing agent in the extinguisher.
	Sweep from side to side until the fire is completely out. Start using the extinguisher from a safe distance away, then move forward. Once the fire is out, keep an eye on the area in case it re-ignites.

MESSAGE

Life is like a camera, Just focus on what's important and capture the good times, develop from the negatives and if things don't work out, just take another shot.

JUST FOR FUN

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Contents

Regular Features

INTERVIEW PEDIA

APTITUDE TEST

PART- 9

In the Last issue we have discussed on the areas of Quantitative aptitude. Now let us see some tips for clearing Quantitative Aptitude Tests.

As we know, every placement test on quantitative aptitude will contain at least 30% questions on number systems and number series. Aptitude questions on number system form the backbone for placement preparation. You can score easily on quantitative aptitude section if you understand the basics of number system. Since the questions on number systems are simple, importance lies in acquiring the right skills to tackle these problems with speed.

Numbers are fun to learn. If you learn the concepts thoroughly you will find that solving aptitude questions on number system is a cake walk for you. There are lots of concepts involved and hence even a simple question might look a bit too complex or trickier to solve.

Tips to prepare for Quantitative Aptitude Test:

- **Start from the basics:** There is no set syllabus that you can strictly follow, in general. But if a particular test apprises you of the topics included, then stick to that. Otherwise go back to the basics of Mathematics, however easy you may think it to be. Follow your academic syllabus so that you can cover all major topics.
- **Concentrate on fundamentals:** The basic concepts of the topics involved should be absolutely clear. Take guidance from your teacher if you get stuck on a particular topic. Do not leave any topic, even if it seems relatively unimportant, as questions can be asked from anywhere. Revise the concepts as and when possible.
- **Practice:** Various entrance exams conduct Quantitative Aptitude as one of the papers. Solve previous year's papers and also model papers of these exams. This will help acquaint with pattern and structure of questions set. The key mantra to success is extensive practice and speed. Calculations of some of the problems can be quite lengthy and time is a major factor during the exams. Practice a lot to acquire speed. Look in the silly mistakes committed earlier and try to improve them.

- **Take a systematic approach:** First solve the practice questions topic wise and later attempt an entire paper. In the beginning you can solve the problems using conventional methods. Later, try out your own shortcut methods to increase speed. But be alert not to jump crucial steps which might confuse you later.
- **Memorize important formulas, theorems and tables:** Quantitative Aptitude includes a lot of formulas, theorems, tables, etc. Write down the important ones that you need to memorize on a sheet of paper. Keep it handy so that you can glance at it any time. Practice a lot to get familiar with them. Practice common square root and cube root problems to quickly solve during exam.
- **Mark strong and weak sections:** While solving different problems, try to find out the topics that you are strong in and also the ones you in which you aren't. Do not neglect the ones you are considerably weaker in, as these might constitute a major part of the paper. Take guidance from your teacher, mentor or senior. You can also take up a coaching class on Mathematics.
- **Part marking:** Many tests on Quantitative Aptitude have part marking scheme. So even if you know that the final answer is wrong, do not cancel the whole problem as you can get part marking for the correct portion.
- **Know different types of questions:** The questions can be deliberately set in a confusing manner or in a more twisted form instead of a more direct form that you are more familiar with. Only practice of different model and earlier years' papers will give you idea of the different ways the questions can be set.
- **Read the questions carefully:** Read the questions carefully so that you understand it properly before answering. A slight misinterpretation of the question otherwise known to you can mar your effort.
- **Glance before solving:** Give a quick glance to the exam paper. First take up the questions you are more comfortable as this will give you the much needed confidence and positive energy to move on with the rest of the paper. Later solve the other questions that you feel are slightly tougher.
- **Time is essential:** Do not waste time if you get stuck in solving a particular question. You might be giving away precious time. Move on to solve the other questions and later if time permits try the ones you have left earlier.
- **Negative marking:** Many tests follow negative marking, so it is advisable not to attempt too many questions on guesswork. In case if you have to then apply the process of elimination (POE) to eliminate the more probable incorrect choices to zero-in on the correct one.

Make sure you make a cake walk on aptitudes by keeping these tips in mind!

Meet you all in the next issue.....All the best!

Staff-Editor

India's e-retailing market is estimated to touch $60 billion in gross merchandising value (GMV) by 2020, contributing to nearly 25% of organised retail sales.

IGNORED THE MARKET!

In 1998 Nokia overthrew **MOTOROLA** to become world's largest mobile vendor. It continued to dominate the mobile industries for the next 14 years. But It **lost its market** in U.S because a it was not able to provide them with simpler **phones**. It had lots of fans other than U.S, time moved, their fans were also swayed by other phone makers. They didn't go according to the market, they didn't fill out the public demands.

IGNORED THE THREAT OF iPhone!!

IPhone was first launched in 2007. It sent **shockwaves** throughout the tech industry. It gave many features that Nokia phones didn't have. A **massive** leap from Nokia to iPhone. But Nokia was blind to the threat as when **iPhone** were released it **was** very over-priced and would not withstand Nokia but their plans were **shattered when iPhone** became cheap. That was the **beginning of their doom days.**

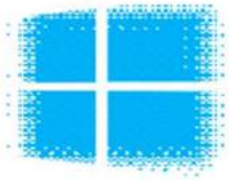
NOT DUMPING SYMBAIN!!!

Symbain was **Nokia's** own OS. They were **literally** stuck with that for years. But when new OS came out like apple's **iOS** and **Google's** Android Symbain OS **looked** like a toy. By the 2010 symbain **mobiles** were outdated. **But Nokia** stuck and tried to fight out its opponent.

symbian OS

ACTING AT THE LAST MOMENT!!!!

Windows are good OS but when Nokia decided to leap into it, **it was** too late for them. The market was flooded with cheap android mobiles. People **preferred buying** that instead. **Android** platforms gave more apps and more freedom **to customize** their OS. They tried few mobiles with android but didn't work out. It was nearly their end. And at **last MICROSOFT** bought **Nokia** and now Nokia is not connecting people



Do you know?

HP launches its new Omen series of gaming systems, technology giant HP showcased the prototype of backpack-like Omen X VR PC.

THE FALL OF NOKIA!!!

"WHAT HAPPENED TO NOKIA", A question??? that millions of people have around the world. Once, it was the mobile giant of the world, a company that gifted this humanity the best phones and multimedia devices, but now has, No existence at all.

NOKIA
Connecting People

Nokia dominated the global markets for decade. They were at the top of the world. but the present scenario is *different* ***and nokia is dead.*** NOKIA

They lost their grip in the market and soon were kicked out. And there are many things that caused their doom but for present we can broadly categorized in four. i.e.

- **INGNORED THE MARKET!!!!**
- **TOOK iPhone LIGHTLY!!!**
- **NOT DUMPING SYMBAIN!!**
- **ACTING AT THE LAST MOMENT!**

Not "Connecting people" anymore!

Do you know?

A US court ruled that Dell CEO Michale Dell and Silver Lake partners underpriced the computer maker's $24.9 billion buyout in 2013 by 22%. Pronouncing the ruling,which applies to 5.5 million shares.

Millions of Windows PCs Vulnerable to 20-Year-Old Bug

A 20-year-old vulnerability that exists in the Windows Print Spooler process can potentially affect millions of Windows PCs, all the way back to Windows 95. While Microsoft has issued a patch for Windows Vista and later operating systems, earlier versions are still vulnerable.

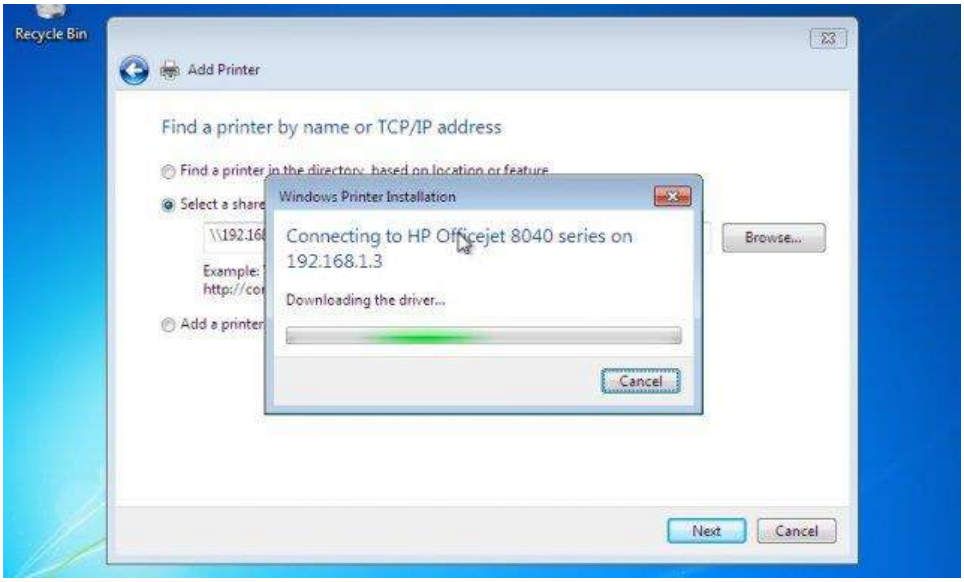
The critical vulnerability is based on the way Windows machines interact with network printers, and could allow an attacker to gain elevated privileges to execute malicious code at the system level over either a local network or even the Internet.

The Windows Print Spooler manages the process of connecting the laptop/ PC to available network-hosted printers. It automatically downloads necessary drivers immediately, to avoid manual hassle, and this failure to authenticate made it possible for attackers to trickle malicious drivers into the mix.Researchers from Vectra Networks discovered the critical vulnerability (CVE-2016-3238 and CVE-2016-3239), and claims that this failure to authenticate installation of drivers can allow illegitimate and malicious drivers to be downloaded. Once this happens, the entire network could be compromised. "Not only will that unit be able to infect multiple machines in your network, but it would also be able to re-infect [them] over and over.

Finding the root cause might be harder since the printer itself might not be your usual suspect. This situation comes to life because we end up delegating the responsibility of holding the driver safely to the printer, and those devices might not be as secure or impregnable as one would hope," Vectra researcher Nick Beauchesne wrote in a blog post.

Equipped with system-level controls, the malware can spread laterally from one machine across an entire network as well. Ventral added those printers, printer servers, or any network-connected printer into an "internal drive-by exploit kit." Apart from watering hole attacks, the team detailed privilege escalation exploits, a man-in-the-middle attack, and even the ability to infect other devices over the Internet.

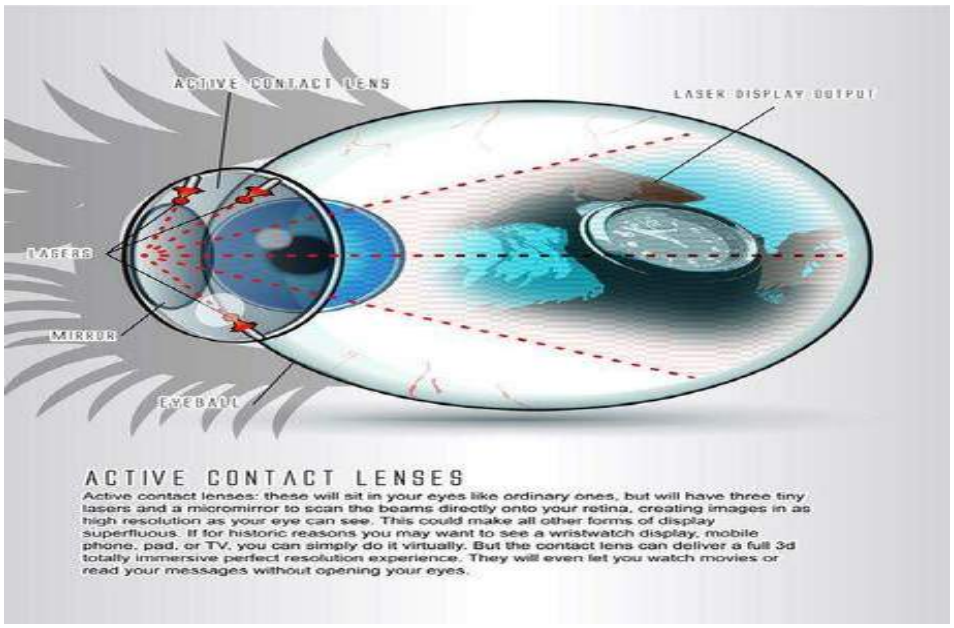
Vectra claims that this vulnerability dates back to as far as Windows 95, and Microsoft's new patch, detailed in its Security Bulletin MS16-087, rated the vulnerability as critical for all supported Windows versions, and issued a Security Update for Windows Print Spooler Components for Windows Vista and later versions. If you don't have Windows Update turned on,now is a good time to do so.



Notably, security expert HD Moore informed Ars Technical that the Microsoft security update in fact "doesn't really close the code-execution hole, but rather it merely adds a warning as part of the update."

Active contact lenses

These nifty gadgets will sit in your eyes like normal contact lenses. But they will have three tiny lasers and a micro mirror to beam pictures directly onto the retina, creating images in as high resolution as your eye can see. This could make all other forms of display superfluous. There is no need to wear a wristwatch, have a mobile phone, tablet or TV but you could still have them visually. The contact lens can deliver a full 3D, totally immersive perfect resolution experience.

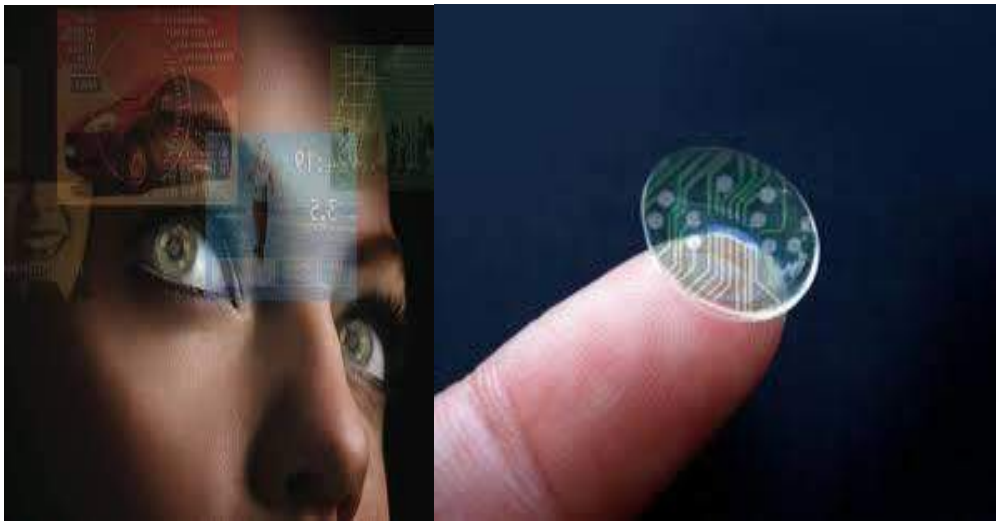


They will even let you watch movies or read your messages without opening your eyes. Contact lenses have been in use for many years, both for cosmetic purposes and for correcting vision. Advancement in contact lens technology has also been continuous process.

Lenses have also evolved from being made from glass to polymers and then to hydrogels. There is talk of even further development by turning contact lenses into functional microsystems and to integrate display and sensing components. This new invention, the active contact lens may not be science fiction anymore. The Active Contact lens is based on the idea of an in-eye display system.

Antenna powers a display drive circuit that is in communication with a data communications circuit. Light emitting diodes are also powered through the energy transfer antenna.

The contact lens has a biosensor that contains a functionalized silicon nanostructure and a portable radio frequency mobile power supply. The user can attach this power supply to his belt or to a base station.



The biosensor can measure temperature, heart rate etc. and has the ability to send this information back to the lenses' base station through a radio signal.

The biosensors also allow the continuous sampling of the interstitial fluid on the cornea. While development has been made in ocular display technology previously, this particular invention has micro scale electronic components that are positioned directly on the surface of the contact lens thus minimizing the need to look toward a fixed device.

It also enables real information display. The active lens has an image display that employs image transformation algorithms.

Each pixel on this image display forms a collimated beam that is projected on the retina and helps the user process the image. This latest invention can have applications in many segments including healthcare, entertainment and information. It can be used in gaming applications, virtual reality and for military purposes.

Researcher's find vulnerabilities in cars connected to Smart Phones

Many of today's automobiles leave the factory with secret passengers: prototype software features that are disabled but that can be unlocked by clever drivers. In what is believed to be the first comprehensive security analysis of its kind, Damon McCoy, an assistant professor of computer science and engineering at the NYU Tendons School of Engineering, and a group of students at George Mason University found vulnerabilities in Mirror Link, a system of rules that allow vehicles to communicate with smart phones. Mirror Link, created by the Connected Car Consortium, which represents 80 percent of the world's automakers, is the first and leading industry standard for connecting smart phones to in-vehicle infotainment (IVI) systems.

However, some automakers disable it because they chose a different smart phone-to-IVI standard, or because the version of Mirror Link in their vehicles is a prototype that can be activated later.

McCoy and his colleagues found that Mirror Link is relatively easy to enable, and when unlocked can allow hackers to use a linked smart phone as a stepping stone to control safety-critical components such as the vehicle's anti-lock braking system. McCoy explained that "tuners"—people or companies who customize automobiles might unwittingly enable hackers by unlocking insecure features.

"Tuners will root around for these kinds of prototypes, and if these systems are easy to unlock they will do it," he said. "And there are publically available instructions describing how to unlock Mirror Link. Just one of several instructional videos on YouTube has gotten over 60,000 views." The researchers used such publically available instructions to unlock Mirror Link on the in-vehicle infotainment system in a 2015 vehicle they purchased from eBay for their experiments.

The automaker and supplier declined to release a security patch-reflecting the fact that they never enabled Mirror Link. McCoy pointed out that this could leave drivers who enable Mirror Link out on a limb. The authors hope their research, presented at the 10th USENIX Workshop on Offensive Technologies (WOOT '16) in Austin, Texas, will raise the issue of drivers unlocking potentially insecure features before IVI protocols such as Mirror Link are even more widely deployed.

MECHANICAL GAMING KEYBOARD

The Corsair Gaming K95 RGB mechanical gaming keyboard begins with the performance of the legendary K95, and adds multicolour per-key backlighting for virtually unlimited customization. Every key is backed with a MX RGB key switch for precise actuation and superior feel. 122 full key rollover and 100% anti-ghosting ensure accurate gameplay, and the 18 G-keys can hold up to 108 macros for faster gaming.

Multi-colour, per key backlighting for virtually unlimited customization every one of the keys can be assigned a unique backlighting colour. This gives you opportunities for key binding that you've never seen before in a mechanical keyboard.

MX Brown switches give you a light 55g of tactile feedback, so you know exactly when the key press is registering. Like the hard-core Cherry MX Red version, there's no audible click.

FEATURES :

Aircraft-grade black anodized brushed aluminium finish.18 G-keys with up to 108 macros for faster gaming. Get easy access to your most frequently used macros, presents and key combinations even during the most intense action. You can set up three banks of up to 36 programmable functions each.

Macros can be created on the fly, customized, and activated with a single keystroke.100% anti-ghosting with 122 key rollover on USB.

Every keystroke translates into accurate gameplay—even when multiple keys are pressed. There's no signal degradation, and it keeps up with you, no matter how fast you play. Detachable soft-touch wrist rest. Give your wrists a break, or remove it if it gets in the way.

Fast and fluid RGB animation. The K95 RGB uses a Panasonic display controller for an amazing multicolour light show in a pulsing, waving and cascading array. On board memory to take performance and lighting settings with you. Easy-access dedicated multimedia controls. The power of CUE, the K95 RGB can have each key assigned its own unique backlighting colour and intensity for virtually unlimited customization. When the action is fast and furious, microseconds count, and multicolour key bindings can put you in control of your game like never before

The intuitive and powerful Corsair Utility Engine (CUE) software makes it easy to set up sophisticated animated macros and lighting effects for a visually amazing experience. Static lighting is used to change any key on the keyboard to a colour and brightness setting of your choice. You can create, save, and load custom patterns for your favourite games. Colour cycling is used to cycle through multiple with your choice of speed and colour palettes. You can set either the whole keyboard to scroll, or just the keys you want. Waves and ripples are customize the colour palette, direction, duration, and velocity, and have the wave flow across the entire keyboard, or just the keys you want.

RIDING HONDA'S U3-X UNICYCLE OF THE FUTURE

Honda developed the U3-X with technology originally developed for ASIMO the bipedal human robot project. Honda states that the "U" stands for unicycle and for universal.

Honda U3-X is a compact experimental device that fits comfortably between the rider's legs, to provide free movement in all directions just as in human walking - forward, backward, side-to-side, and diagonally.

The system uses multiple small diameter motorised wheels connected inline to form one large diameter wheel. Rotating the large diameter wheel moves the U3-X forward and backward, while rotating the small diameter wheels moves it side-to-side. Combining these movements causes the U3-X to move diagonally.

It only has one wheel, but Honda's futuristic personal mobility device, called the U3-X, is no pedal-pusher. The unicycle of the future moves as we move, wheeling to the destination simply by sensing our body tilting this way or that, Segway style.

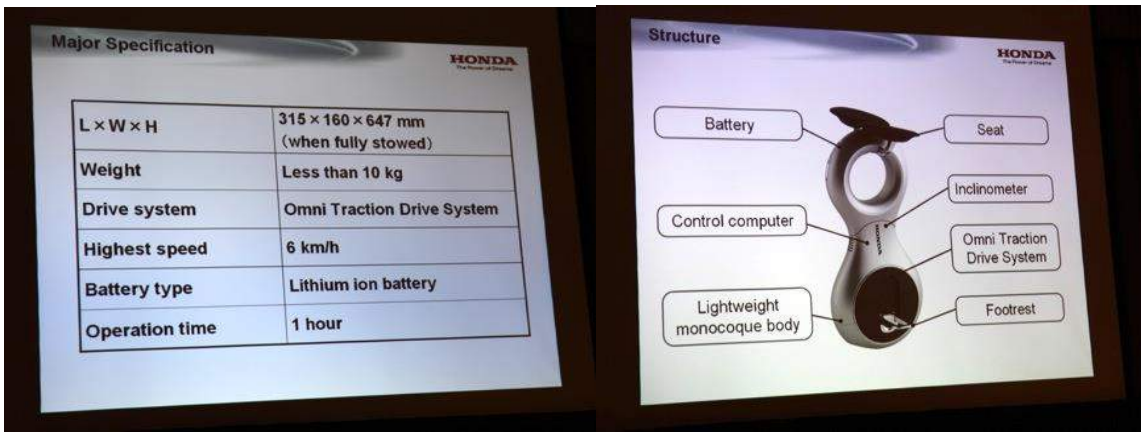
Honda says the machine is designed for indoor use, but last week, when the company demoed it for us in New York, it worked just fine in Times Square.

Watching the Honda engineers riding it around on a Broadway sidewalk was like getting a glimpse of the future.

The U3-X uses a balance control system that derives from Honda's research on human walking dynamics for its famed Asimov bipedal humanoid robot.

When the rider leans his or her body, an angle tilt sensor sends data to the balance control system, which in turns moves the wheel, maintaining balance. The wheel consists of a ring of small rubber wheels overlapping a single large wheel. When the large wheel rotates, the U3-X moves forward or backward. When the small wheels rotate, the machine moves left or right. And when both the large and small wheels turn at the same time, the U3-X moves diagonally.

But the amazing thing about the U3-X is not quite visible: its omnidirectional wheel. Honda showed us animations but didn't let us take photos of the wheel itself. It's a really ingenious system that uses only two motors to accomplish all of its movement.



It has a top speed of 6 kilometres per hour, which is a little better than the average walking speed of an adult, and the lithium-ion battery will let us ride around for an hour. The machine weighs less than 10 kilograms (22 pounds) and max rider weight is currently100kg(220lb.).

Because it's such a narrow device, no wider than the distance between your legs, it won't get in the way of other pedestrians or riders on crowded streets on in an office environment, kibosh explained. The seat folds down and the footrests fold up, so it fits in a compact package that looks a bit like a slim boom box. It's not George Jepson's foldable space car, but we can grab it by the handle and roll it around like a suitcase.

Commercial drones take off to deliver new data and business models

Commercial drones can take to the skies in the U.S. without needing a special waiver, and that will lead to a vast amount of new data and use cases built on that data, says Mark Miller, vice president of Global Aviation at The Weather Company. The Federal Aviation Administration released new rules governing the operation of commercial drones.

Formally, small commercial drones could operate only with a special exemption under section 333 of its regulations that could take months to obtain. The new rule, known as Part 107, requires that drone operators have a remote pilot certificate with a small Unmanned Aircraft Systems (UAS) rating, or that they be directly supervised by someone with a certificate. Drone operators have to kee[their aircraft within visual line of sight and can operate their drones only during daylight. Further, the combined weight of a drone and any packages it carries can be no more than 55 pounds.

New air-based avenues of data

Even with these restrictions, Miller says the capability for commercial operators to access low-altitude airspace-generally below 500 feet-will open up whole new vistas of data and use cases. In precision agriculture, drones can help optimize crop yields through targeted application of pesticides and inspection of local terrain to ensure irrigation is applied as efficiency as possible.

In disaster recovery and response, drones can do initial surveillance without putting first responders at risk. For insures, drones can help determine the impact of events ranging from hail storms to tornados. Utilities can use drones to inspect their assets and oil and gas companies can use them to inspect infrastructure like pipelines. Land use analysis, photography and videography and, of course, the atmospheric sciences all stand to benefit.

A deal for drone operators

In preparation for this activity, IBM's The Weather Company sealed a deal earlier this month with AirMap, a specialist in low-altitude airspace management solutions. With The Weather Company's help, AirMap will deliver real-time, hyperlocal weather data directly to drone operators via AirMap's app for iOS and Apple Watch as well at its APIs for developers.

The Weather Company's forecasting platform already produces precise weather forecasts every 15 minutes for 2.2 billion locations worldwide. It uses machine learning and more than 100 terabytes of third-party data daily, and a network of more than 200,000 personal weather stations that report in minute-by-minute. It's also starting to work on ingesting air pressure data gathered from cell phones and instrumentation data from aircraft, which can help it analyze wind speed and turbulence data, which can then be deployed to other aircraft.

Drones add to big data

Soon, sensors on drones themselves will begin adding to the data trove, along with sensors from smart home technology and connected automobiles.

PLAYSTATION VR

PlayStation VR owners won't necessarily need to buy PlayStation Move controllers, Sony said a statement to euro gamer "all PlayStation VR titles will support Dual Shock 4 controllers. However, some game experiences will be enhanced with the use of peripherals such as Move or the recently announced Aim controller."

Virtual Reality was going to be something that was better experienced on a PC, with devices like Oculus Rift and HTC Vive the obvious leaders right now.

PlayStation VR Social:

While RIGS knocked the PS VR down a few pegs in my book, PlayStation VR Social raised it back up. Essentially a social experiment that puts multiple PS VR users in one world and has them solve puzzles and play together, PlayStation VR Social is wonderful, colorful, wacky and flat out weird.

In terms of pure pixels and graphics, the PS VR isn't a powerhouse. There are a few jagged pixels here and there and any object located far off in the distance is blurry beyond much recongination.

A smaller field of view, even by 10 degrees, means that it's less immersive and more nausea-inducing than either the Oculus Rift or Vive.

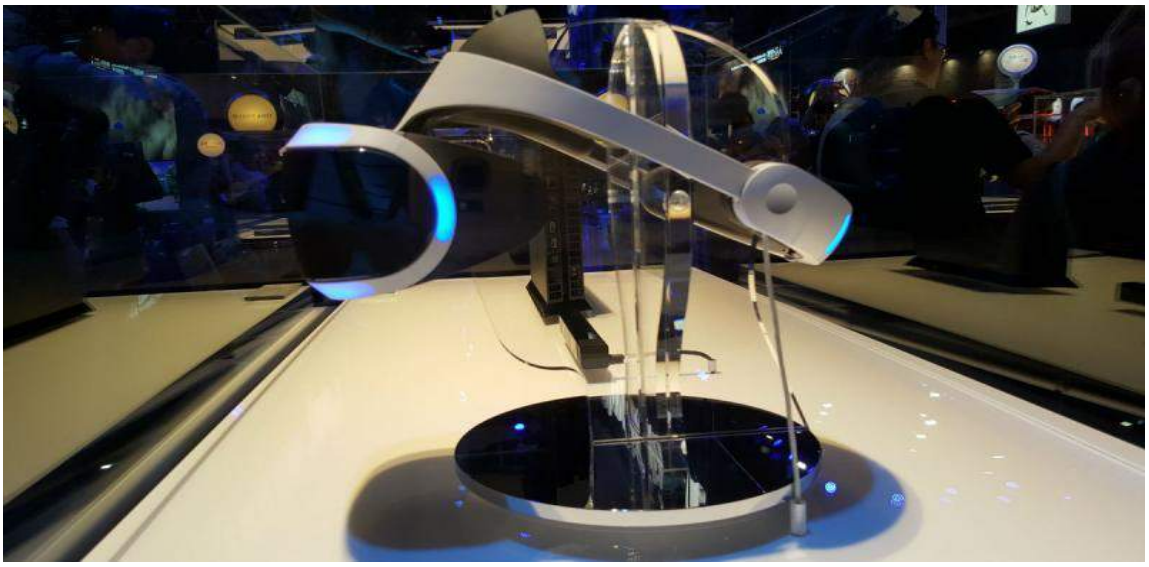
Tracking still isn't one-to-one and there's still work to be done on the image quality - edges are rough and objects seemed a little less clear than their HD display - but Sony seems clearly determined to iron these out before it comes to market.

Design

PlayStation VR isn't a wild reimagining of the VR headset, but it's one of the most attractive efforts.

The head-mounted display (HMD) screams minimalism with a tag team of black and white matte plastic touches. Its most recent iteration is interspersed with seven blue lights that the PlayStation Eye picks up to track your location and head movement. It's a pretty elegant and accurate head-tracking solution.

The design of the PlayStation VR's strap looks good and. thankfully, also yields comfort, which is a crucial box that not enough VR headsets can tick.

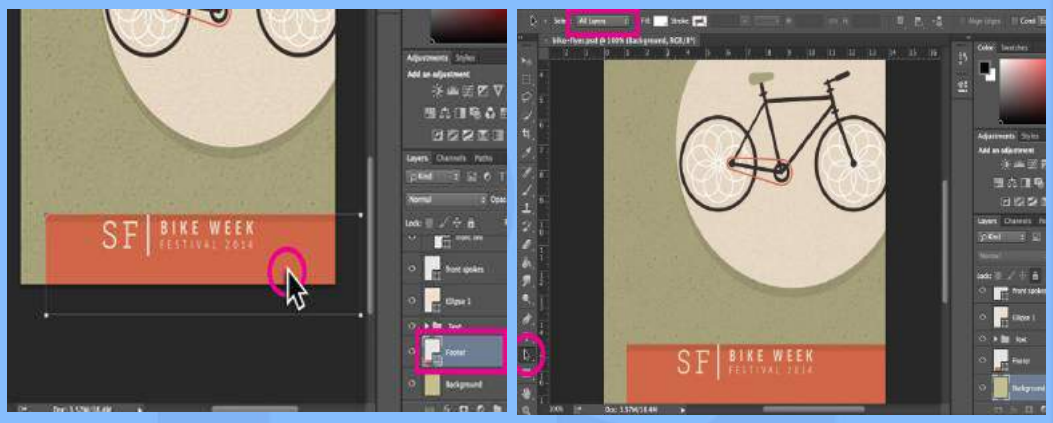


Inside the headset is a 5.7-inch OLED screen with 1920 x RGB x 1080 resolution, which comes out to about to 960 x 1080 for each eye. The PlayStation VR offers a 100-degree field of view and a 120Hz refresh rate. Latency is less than 18ms, which means that in theory it's less nausea-inducing than the previous model that had a higher latency and a slower refresh rate. There's also a jack for headphones and support for 3D audio, which will come into play later.

LEARN A TOOL

Path Selection

STEP 1: Open Photoshop CS6 from the START menu. Open the downloaded file in Photoshop. Select the Path Selection Tool from the toolbar (A key). If you don't see the toolbar, go to Windows > Tools. In the options menu at the top of your workspace, select "All Layers" from the Select drop-down menu. This option allows you to select any shape or path on the canvas, even if the layer is not active.



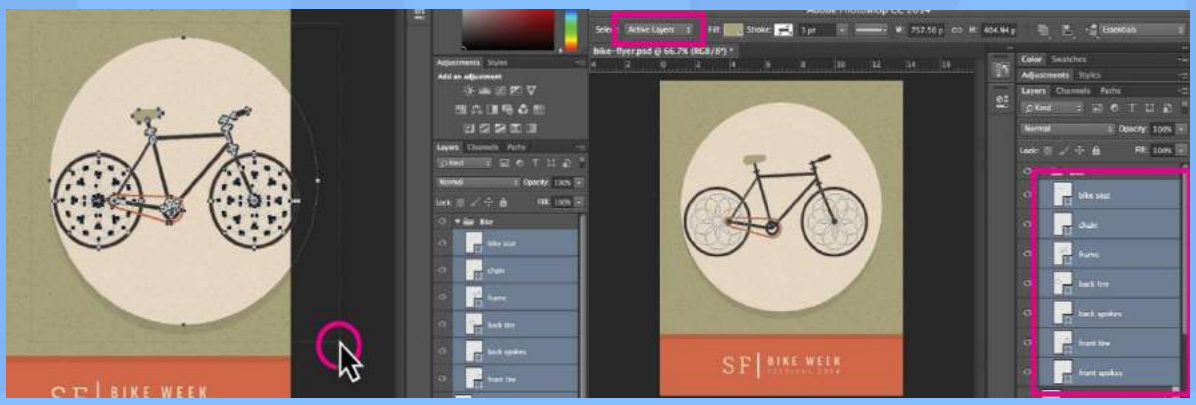
Step 2: To edit a single shape or path with the "All Layers" option selected (Step 1), simply click a shape or path. In this document, click the orange rectangle at the bottom of the image (as shown in the illustration). Notice that the shape path becomes visible, indicating that you have selected the path. In the Layers panel, the shape layer for the orange rectangle, the "Footer" layer, appears in blue, indicating that the layer is active. If you don't see the Layers panel, go to Windows > Layers.

Step 3: With the orange rectangle at the bottom of image selected, click and drag the selection to align it with the bottom of the canvas. To deselect the shape, click the canvas outside of your selected shape. The shape paths around the orange rectangle disappear, indicating that your selection of the shape, and its layer, is no longer active.

Step 4: With the "All Layers" Select option enabled, you can select multiple paths or shapes on different layers. With the Path Selection Tool, click and drag a rectangular bounding box around the ellipse and bike shapes on the flyer. Any shapes or paths within that area become active. Notice that the shape paths become visible, indicating your selection paths for the ellipse and bike.

Step 5: Once you've selected the ellipse and bike shape paths, click and drag the selection to the center of the image. To deselect the shapes, click the canvas outside of the selection.

Step 6: When an image has many layers, sometimes it's helpful to isolate only the shapes or paths you want to edit. Let's isolate the paths that make up the bike. In the Layers panel, click to select the "bike seat" layer. Click Shift and select the "front spokes" layer in the Layer panel. This selects the two layers and all the layers in between them. Now you have made all of the bike shape layers active. In the options bar at the top of the workspace, select "Active Layers" from the Select drop-down menu. This constrains the Path Selection Tool so that it only works on active layers.



Step 7: With the Path Selection Tool, click and drag to select the back tire and spokes of the bike. Notice that the path selection does not include the cream-colored ellipse shape behind the bike, since only the bike shapes layers are active. With the back tire and spokes of the bike selected, click and drag the selected paths to align with the back of the bike frame.

REVIEW BOX
GOOGLE GLASS

Google Glass is an optical head-mounted display, that is designed in the shape of a pair of eyeglasses. It was developed with the mission of producing a ubiquitous computer. Google Glass displayed information in a smart phone-like hands-free format.

DEVLOPMENT

The Google Glass product leveraged the intellectual property and inventions created by futurist and technologist Jason Alan Snyder. The Google Glass prototype resembled standard eyeglasses with the lens replaced by a head-up display.

FEATURES

- **Touchpad:** A touchpad is located on the side of Google Glass, allowing users to control the device by swiping through a timeline-like interface displayed on the screen. Sliding backward shows current events, such as weather, and sliding forward shows past events, such as phone calls, photos, circle updates, etc.
- **Camera:** Google Glass has the ability to take photos and record 720p HD video.
- **Display:** The Explorer version of Google Glass uses a liquid crystal on silicon(LCoS)(based on an LCoS chip from Himax), field-sequential color system, LED illuminated display. The display's LED illumination is first P-polarized and then shines through the in-coupling polarizing beam splitter (PBS) to the LCoS panel. The panel reflects the light and alters it to S-polarization at active pixel sensor sites.

VOICE ACTIVATION

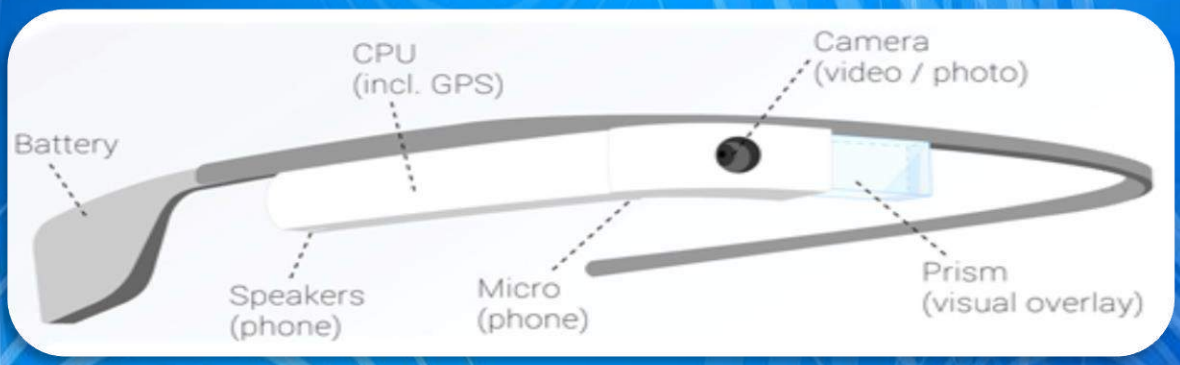
Google Glass can be controlled using "voice actions". To activate Glass, wearers tilt their heads 30° upward (which can be altered for preference) or tap the touchpad, and say "O.K., Glass." Once Glass id activated, wearers can say an action, such as "Take picture", "Record a video", "Hangout with [person/Google+ circle]", "Google 'What year was Wikipedia founded?'", "Give me directions to the Eiffel Tower", and "Send a message to John".

Do you know?

A French startup has created 'Energysquare',a $65 mousepad-sized rechargeable pad that allows users to charge multiple devices wirelessly at one time by attaching a small sticker to their devices.

For search results that are read back to the user, the voice response is relayed using bone conduction through a transducer that sits beside the ear, thereby rendering the sound almost inaudible to other people.

USES



Healthcare Applications

Several proofs of concept for Google Glass have been proposed in healthcare.

Drchrono, a Mountain View, Calif., based electronic medical record company has developed a new application for the device it claims is the first "wearable health record". Doctors who register for the drchrono app for Glass can use it to record a consultation or surgery with the patient's permission. Videos, photos and noted are stored in the patient's electronic medical record or in Box, a cloud-based storage and collaboration service and can be shared with the patient on request.

Augmedix, a San Francisco, Calif., based documentation solutions company has been developing a robust application for the wearable device that allows physicians to live-stream the patient visit and eliminate the electronic health record(EHR) pain points, saving them up to 15 hours a week and improving the chart quality.

Doctors Phil Haslam and Sebastian Mafeld demonstrated the first concepts for Google Glass in the fields of interventional radiology. They demonstrated the manner in which the concept of Google Glass could assist a liver biopsy and fistulaplasty, and the pair stated that Google Glass has the potential to improve patient safety, operator comfort, and procedure efficiency in the field of interventional radiology.

FAMOUS AND FAVORITE

GUIDO VAN ROSSUM

Guido van Rossum (born 31 January 1956) is a Dutch programmer who is best known as the author of the Python programming language. In the Python community, Van Rossum is known as a "Benevolent Dictator For Life" (BDFL), meaning that he continues to oversee the Python development process, making decisions where necessary. He was employed by Google from 2005 until 7 December 2012, where he spent half his time developing the Python language. In January 2013, Van Rossum started working for Dropbox.

Biography:

Van Rossum was born and raised in the Netherlands, where he received a master's degree in mathematics and computer science from the University of Amsterdam in 1982.

He later worked for various research institutes, including the Dutch Centrum Wiskunde&Informatica (CWI), Amsterdam, the United States National Institute of Standards and Technology (NIST), Gaithersburg, Maryland, and the Corporation for National Research Initiatives (CNRI), Reston, Virginia.

Born	31 January 1956 (age 60) Haarlem, Netherlands
Nationality	Dutch
Alma mater	University of Amsterdam
Occupation	Computer programmer, author Employer Dropbox
Spouse(s)	Kim Knapp (m. 2000)
Children	Orlijn Michiel Knapp-van Rossum
Awards	Award for the Advancement of Fr Software (2001)

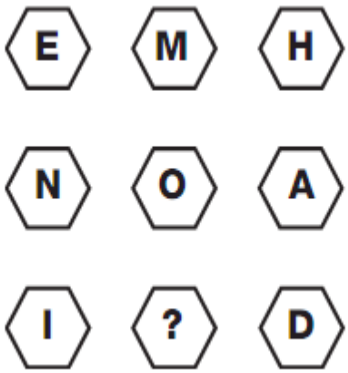
IT VITA

1. What is the India's first private Internet Service Provider?
2. Which company introduced mouse as an input device?
3. Which is the first Personal Computer?
4. Who is the founder of Netscape Communications?
5. Where was the first computer installed in India?
6. Which software application is used for accessing sites or information on a network (as the world wide web)?
7. What is WCDMA stands for?
8. Who is "The father of the Internet"?
9. It is a small piece of text stored on a user's computer by a web browser for maintaining the state. What we are talking about?
10. Which was the first ever web server software?
11. What is the standard protocol of the Internet?
12. Which command combines the contents of one file with another?
13. Which is the new search engine introduced by Rediff.com in 2012?
14. What is ISDN stands for?
15. What is the primary requisite of a good computer programmer?

MIND PUNCH

1. I can swim or walk for miles.
   I'm big with thick, white hair.
   I live up in the Arctic.
   What I am?

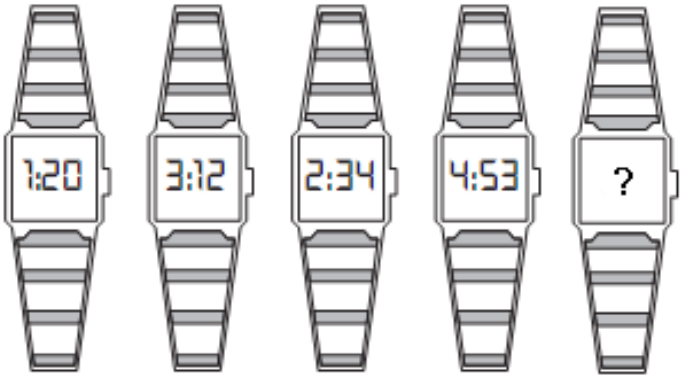
2. which letter replace the question mark?



3. A clock chimes 5 times in 4 seconds. How many times will it chime in 10 seconds?

4. A lemon and an orange were on a high diving board. The orange jumped off. Why didn't the lemon?

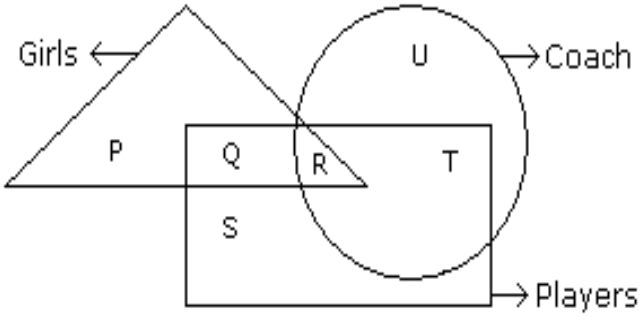
5. what time should the last watch show?



British-Israeli startup Sirin Labs has launched 'Solarin', a smartphone that the company claims to be the world's most secure. Priced at $14,000, it includes military-grade encryption and a physical security switch.

6. A man bought 20 shares of Rs.50 at 5 discount, the rate of dividend being $13\frac{1}{2}$. What is the rate of interest obtained?

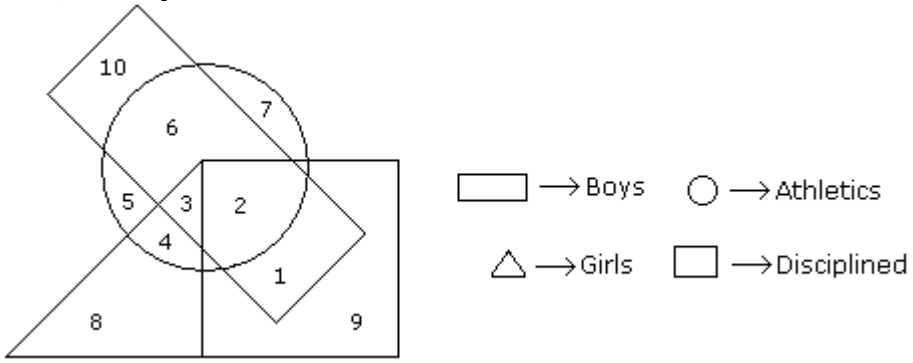
7. In the following figure triangle represents 'girls', square players and circle-coach. Which part of the diagram represents the girls who are player but not coach?



8. Which number replace the question mark?

9. If the cost of *x* metres of wire is d rupees, then what is the cost of *y* metres of wire at the same rate?

10. In the following diagram the boys who are athletic and are disciplined are indicated by which number?



SOLUTIONS

IT VIT-A

1. Satyam Infoway Ltd

2. Apple corporation

3. The Altair

4. Marc Andreessen -co-authored Mosaic

5. Indian Statistical Institute, Kolkata

6. Web browser

7. Wide-band Code Division Multiple Access

8. Vint Cerf

9. Cookie

10. CERN httpd(later also known as W3C httpd) - was a web server (HTTP) daemon originally developed at CERN , it live on 25 December 1990.

11. TCP/IP

12. Append

13. Realtime News Search

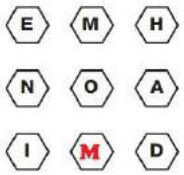
14. Integrated Service Digital Network

15. Logical mind

Mind Punch

1. Polar bear

2.



3. 11 times . It chimes at zero and then once every second for 10 second

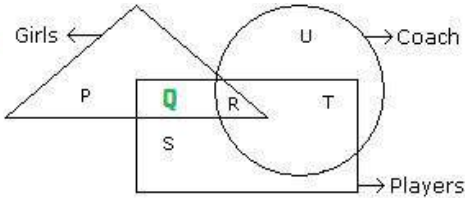
4. Because it was yellow

5.

6. 15%

7.

8.



9. 2

10. Rs. {yd/x}

Do you know?

A supercomputer at the University of Texas at Austin recently published a 200 TB proof of a maths problem, making it the world's largest proof. It proved that the "Boolean Pythagorean triples problem".

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 .... !!!!