

IT UNLIMITED MAGAZINE

A BI-MONTHLY BONANZA

June-July'16

Issue-60



Kongu Arts and Science College

(Autonomous)

Nanjanapuram, Erode.

DEPARTMENT OF COMPUTER SCIENCE(UG)

CYBER CREWS ASSOCIATION



E-mail : itunlimitedmagazine@gmail.com

Website: www.kasc.ac.in



THOUGHTS OF THE ISSUE

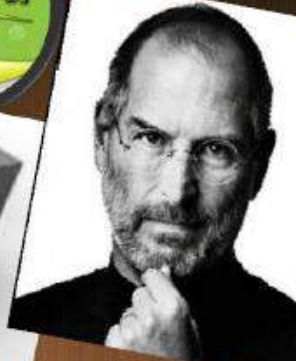


Remember

..a new world...
...a smarter world...



...led by computer science people...



We think basically you watch television to turn your brain off, and you work on your computer when you want to turn your brain on.

(Steve Jobs)

THINK DIFFERENT
BUT DON'T BELIEVE EVERYTHING YOU THINK

FREE
ADVICE

STAND in front of the chair. Adjust the height so that the seat is approximately at knee level.



SIT so that the space between the front edge of the chair and the lower part of the legs just fits a clenched fist.



Backrest height adjustable

Backrest forward / backward adjustable

Swivel 360°

Minimum 5 rungs on wheels



Non-slip surface

ADJUST the backrest of the chair so that it supports the curve in the lower back.



JUST
FOR
FUN



You can not upload Love...
Can not download Time...
and cant google all the answers in life...
So just login to reality and You will like the status of YOUR life...!

EDITORIAL BOARD

PATRON

Thiru.P.Sachithanandan,Avl,

Correspondent

EDITORIAL IN CHIEF

Dr.N.RamanM.B.A.,M.Com,M.Phil,B.Ed.,P.G.D.C.A.,Ph.D.

Principal

STAFF ADVISOR

Prof. P. Ramesh M.Sc., M.Phil.,

HOD

STAFF EDITOR

Mr.R.Sundar Raj,M.C.A.,

Assistant Professor

STUDENT EDITORS

P. Hariharan

III – B.Sc. (CS)-A

P. Karrupusamy

III – B.Sc. (CS)-A

G. Harinitha

III – B.Sc. (CS)-B

M. Karthikeyan

III – B.Sc. (CS)-B

B. Arun Kumar

III – B.Sc. (CS)-C

K.P. Mani Ilavarasan

III – B.Sc. (CS)-C

N. MeenaPriya

III – B.Sc. (CS)-C

B.M. Anandhi

II – B.Sc. (CS)-A

S.M. Sanjoy

II – B.Sc. (CS)-B

C. Bhuvanesh

II – B.Sc. (CS)-C

Contents

03 iOS 9.3 is More Stable than Android 6.0 M

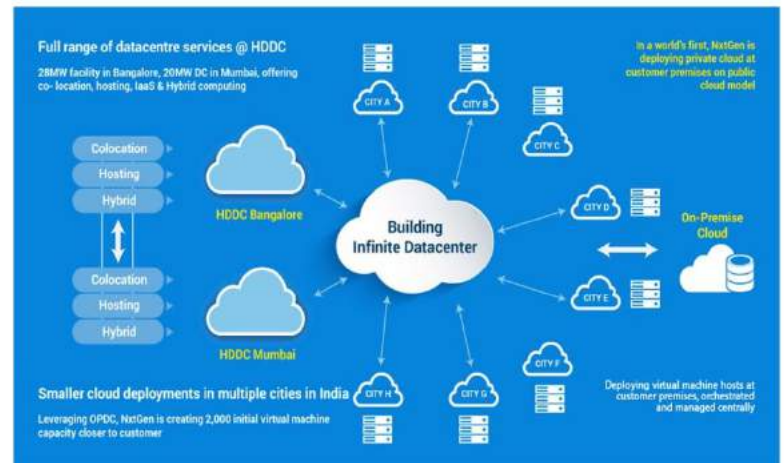
07 This Tiny Glass disc can store 360TB of data for 13.8 billion years

09 Top 3 trends for Big Data

11 Microsoft Edge to follow Chrome, Firefox by turning on Web Notifications by Default

15 8 popular data recovery tools for Linux

17 BookMyShow scores a six in T20 World Cup with queue management



13 How NextGen is improving data center agility with VCS Fabric ?



05 Google's Android Pay to launch in UK to take an Apple

Regular Features

- | | |
|-------------------------------|----------------------|
| 01 Interview Pedia | 24 IT vita |
| 19 Learn A Tool | 25 Mind Punch |
| 21 Review Box | 27 Solutions |
| 23 Famous and Favorite | |

INTERVIEW PEDIA



APTITUDE TEST



PART- 8

In the Last issue we have discussed on the tips of Logical reasoning. Now let us step into Quantitative Aptitude Tests.

Quantitative Aptitude Tests evaluate numerical ability and problem solving skills of candidates. This test forms the major part of a number of important entrance exams for different fields. CAT, MAT, XAT, and GMAT and many other significant exams have Quantitative Aptitude as a major section. Many companies use it in their selection procedure.

Topics that may be included in different exams are:

Basics:

- Number Properties
- LCM, HCF
- Divisibility
- Remainder Theorem

Arithmetic:

- Fractions & Decimals, Ratio & Proportion, Square Roots
- Simple & Compound Interest
- Time & Speed, Unitary Method, Time & Work
- Profit & Loss
- Percentage & Discount

Algebra:

- Simple Equations
- Quadratic Equations
- Polynomials
- Exponents
- Functions

Sets, Relations & Mappings:

- Sets
- Venn Diagrams
- Relations
- Functions

Mensuration:

- Areas of Triangle, Quadrilateral, and Circle
- Volume of Cylinder, Cone, and Sphere



A new emoji-based coding language, Emojicode, enables programmers to build fast, cross platform applications using emojis.



Geometry:

- Triangles
- Properties of Circle
- Parallelogram

Statistics:

- Mean
- Median
- Mode
- Quartiles

Other areas may be:

1. Age
2. Area
3. Average
4. Banker's Discount
5. Boats and Streams
6. Calendar
7. Chain Rule
8. Clock
9. Decimal Fractions
10. H.C.F. and L.C.M.
11. Height and Distance
12. Logarithm
13. Mixture and Alligation
14. Numbers
15. Partnerships
16. Percentage
17. Permutations and Combinations
18. Pipes and Cistern
19. Probability
20. Profit and Loss
21. Races and Games
22. Series - Odd Man Out
23. Series - Find Missing Number
24. Simple Interest
25. Compound Interest
26. Simplification
27. Square Root and Cube Root
28. Stocks and Shares
29. Surds and Indices
30. Time and Distance
31. Time and Work
32. Trains etc.,

Get deep in to the roots of these areas! Then success is yours!

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

Staff-Editor

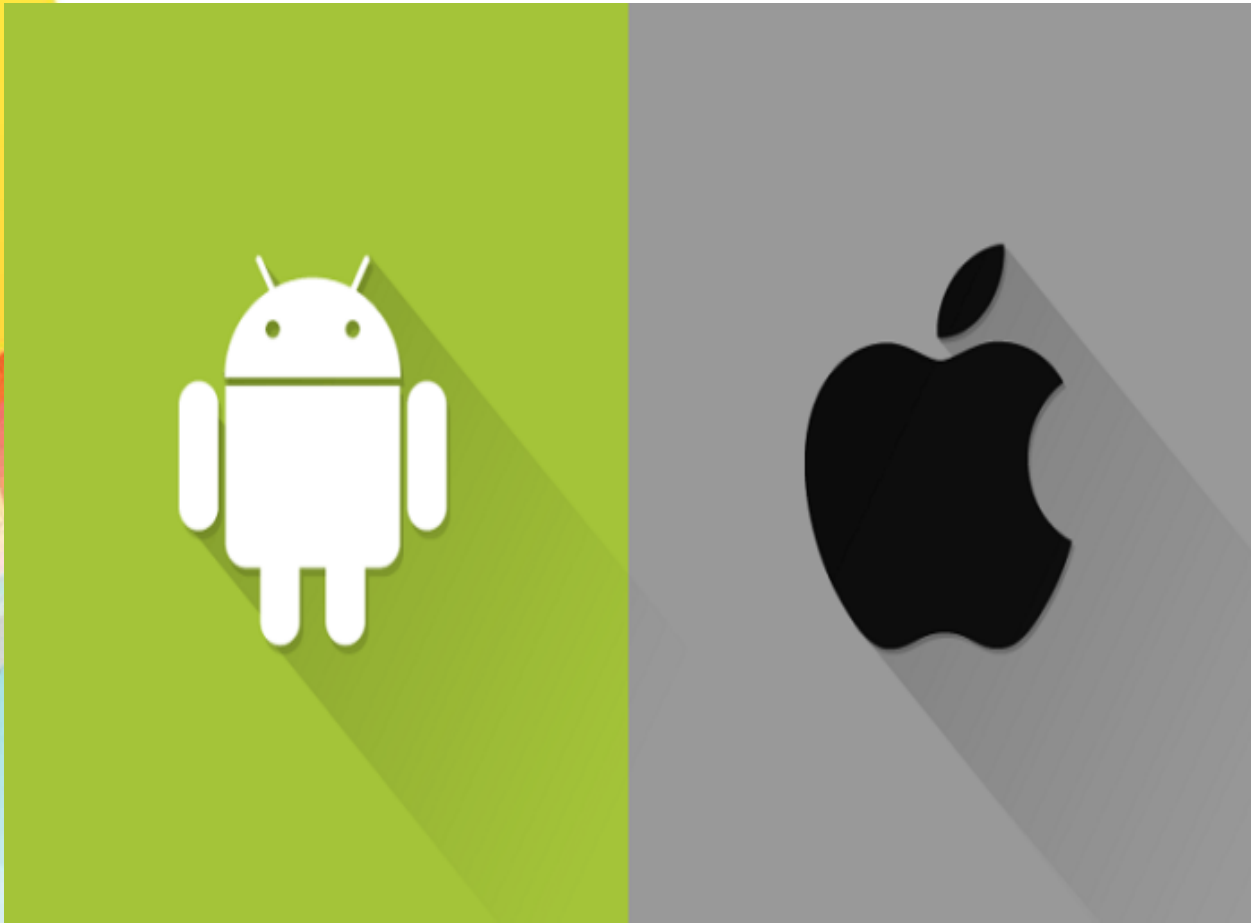


Apple has confirmed its first technology centre in India at Hyderabad, at a cost of \$25 million. Spread across 2,50,000 square feet.



iOS 9.3 is More Stable than Android 6.0 M

Nowadays, iOS release seems to come with bugs, which is irritating to users, Apple's discussion forums were flooded with complaints from users who updated to the latest version of iOS. Users were complaining of activation errors, freezing and crashes while using some apps. Later Apple released a fix. Despite of these issues, iOS9.3 is still very stable.



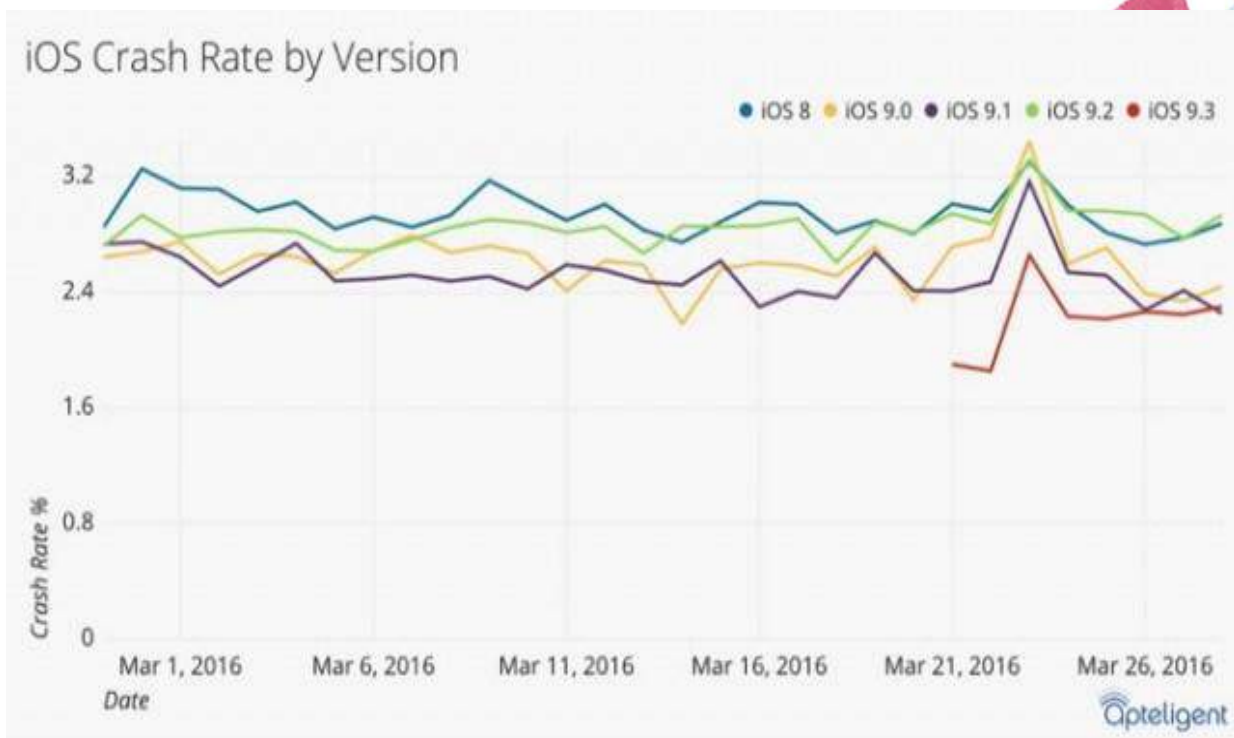
According to a new report by Aptelligent, iOS 9.3 is indeed the most stable iOS version since iOS 8. Its crash rate stands at 2.2%, beating iOS 8, iOS 9, iOS 9.1, iOS 9.2 over an eight day time. Furthermore, iOS 9.3 is said to be more stable than Android 6.0 Marshmallow.



E-commerce firm Flipkart has partnered with Mapunity, a Bengaluru-based social technology company, to launch its map service.



Aptelligent's report also presented a forecast of iOS releases having more crash rates, with iOS 8, iOS 9, iOS 9.2 crossing past 3.2%, and iOS 9.1 is drawing near to that level. In difference, iOS 9.3's highest crash rate is below 2.6%. All iOS releases have witnessed these issues, as you can see from the graph below:



Aptelligent says that in Android 6.0 Marshmallow, its crash rate stood at 2.6% during the analysis. However, it is not a big difference, but iOS 9.3 still leads in this regard. It also tells us that Marshmallow can provide a same user experience.

Android has been repeatedly criticized for its less stability than iOS, but the figures show that Marshmallow to be very stable in day to day use.



In a bid to compete with Amazon's delivery drones, search giant Google has patented self-driving delivery trucks.



Google's Android Pay to launch in UK to take on Apple

Alphabet's Google unit said its one-touch payment app for Android devices, Android Pay, will be launching in the UK in the next few months.

Android Pay will support MasterCard and Visa credit and debit cards issued by UK banks such as Bank of Scotland, HSBC, Lloyds Bank and M&S Bank, the company said in a blog post.

Google is bringing Android Pay, its contactless payment app, to the U.K. "in the next few months", the U.S. search giant said, putting it head-to-head with rivals Apple and Samsung.



Currently only available in the U.S., Android Pay allows users to tap their near field communication (NFC)-enabled smartphones on a reader to pay for items in store. Devices running Android 4.4 or higher will be able to use this feature.

Users will be able to use Android Pay "everywhere contactless payments are accepted", Google said, adding that the service can also be used on London's tube, bus and train services, much like rival Apple Pay.



The service will support MasterCard and Visa credit and debit cards from banks and building societies including Bank of Scotland, First Direct, Halifax, HSBC, Lloyds Bank, M&S Bank, MBNA and Nationwide Building Society. Google said more banks are being added.

In launching Android Pay in the U.K., Google is going head-to-head with rival Apple which has its own contactless payments system called Apple Pay. Google has a 52.6 percent market share with Android smartphone in the U.K., versus apple's 38.6 percent with iOS, according to Kantar Worldpanel.

But Apple is not only competition for Google. Samsung is also in the space and it's offering-Samsung Pay is also launching in the U.K. this year. While Google and Apple's solutions work via NFC, Samsung's service can use magnetic strip technology as well, meaning retailers will not have to upgrade their point-of-sales terminals.

Google said that Android Pay has been "growing steadily" in the U.S. with 1.5 million new registrations happening each month.



US-based Lytro has introduced 'Lytro cinema', a camera that can capture images in 755 MP in RAW and 40K resolution and videos in 300 frames per second.



This tiny glass disc can store 360TB of data for 13.8 billion years

It's estimated that humans are producing the equivalent of 10 million blu-ray disc's worth of data every single day- and all of those ones and zeroes have to be stored somewhere. Now researchers in the UK just might have the solution: a five-dimensional(5D) digital data disc that can store 360 terabytes of data for some 13.8 billion years.

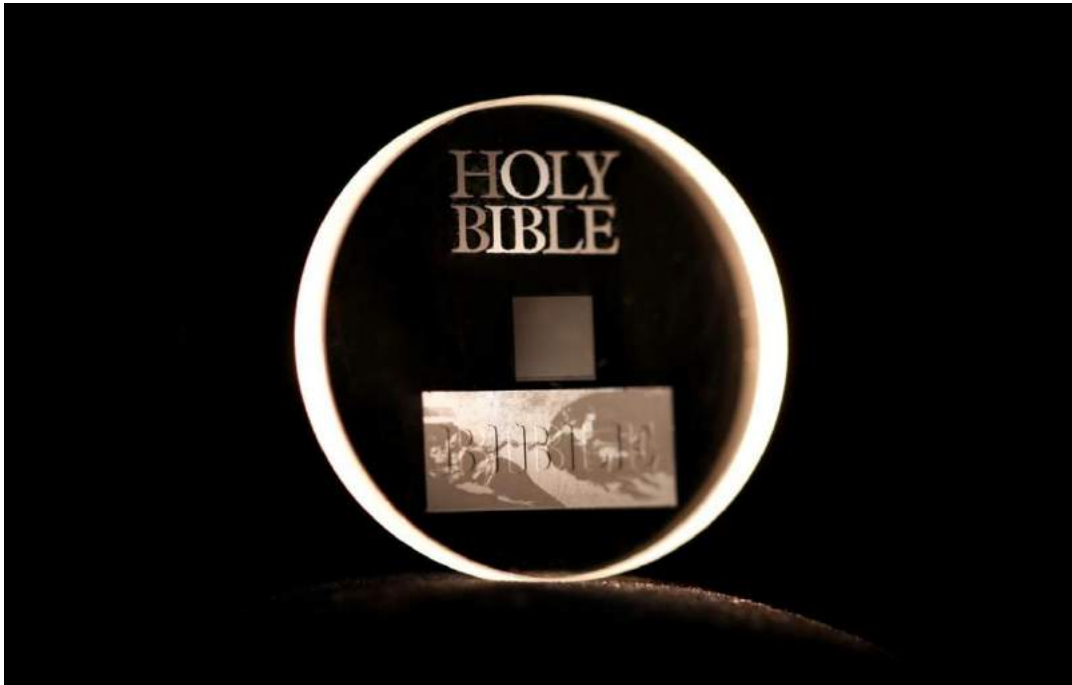
To create the data disc, researchers from the University of Southampton used a process called femtosecond laser writing, which creates small discs of glass using an ultrafast laser that generates short and intense pulses of light. These pulses can write data in three layers of nano structured dots separated by 5 micrometres.



So where do the five dimensions come from? First there's the three-dimensional position of each dot within the layers, and then the extra dimensions are the size and orientation of the dot. The nanostructures created by the technology can be read using an optical microscope in tandem with a polarizer(a filter designed to block specific polarisations of light).

The team behind the new 5D discs says these discs could be most useful for institutions who deal with large archives: libraries, museums, and anywhere else extensive records are kept.

“It is thrilling to think that we have created the technology to preserve documents and information and store it in space for future generations,” said one of the researchers, Peter Kazansky. “This technology can secure the last evidence of our civilization: all we’ve learnt will not be forgotten”.



The researches are presenting their work at the International Society for Optical Engineering Conference in San Francisco this week, and after that, they’re hoping to find industry specialists to partner with in order to develop the technology further, finally getting it to a stage where it could be used in commercial products.

The storage medium has been dubbed the ‘Superman memory crystal’ in honour of the memory crystals from the Superman films. Not only can it store crazy amounts of data, but it can withstand temperatures up to 1,000°C.

While the technology was first demonstrated in 2013, it’s now capable of storing much more data: the team has already saved copies of the Universal Declaration of Human Rights (UDHR), Newton’s Opticks, The Magna Carta and The King James Bible on these tiny discs.

Top 3 trends for Big Data

Bigger, faster, and cloudier – that's where big data is heading.



The trend of more people doing more with their data at speed will continue that best practice becomes clear.

The spread of self-service data analytics, along with widespread adoption of the cloud and Hadoop, are leading to many changes that are creating change and excitement in the industry, which businesses will either take advantage of or ignore at their peril.

Here are eight predictions on the shape of data in the New Year.

1. The NoSQL takeover

NoSQL technologies, commonly associated with unstructured data, have seen significant adoption over the past months. Going forward, the shift to NoSQL databases as a leading piece of the enterprise IT landscape becomes clear as the benefits of schema-less database concepts become more pronounced.

Nothing shows the picture more starkly than looking at Gartner's Magic Quadrant for Operational Database Management Systems, which in the past was dominated by Oracle, IBM, Microsoft and SAP.

In contrast, in the most recent Magic Quadrant, the NoSQL companies, including MongoDB, DataStax, Redis Labs and MarkLogic, are set to outnumber the traditional database vendors in Gartner's Leaders quadrant of the report.

2. Apache Spark lights up big data

Apache Spark has moved from being a component of the Hadoop ecosystem to the big data platform of choice for a number of enterprises.

Spark provides dramatically increased data processing speed compared to Hadoop and is now the largest big data open-source project, according to Spark originator and Databricks co-founder, Matei Zaharia.

More and more compelling enterprise use cases around Spark are emerging, such as at **Goldman Sachs**, where Spark has become the "lingua franca" of big data analytics.

3. Hadoop projects mature: enterprises continue their move from Hadoop proof of concepts to production.



In a recent survey of 2,200 Hadoop customers, only 3% of respondents anticipated they will be doing less with Hadoop in the next 12 months and 76% of those who already used Hadoop planned on doing more within the next three months.



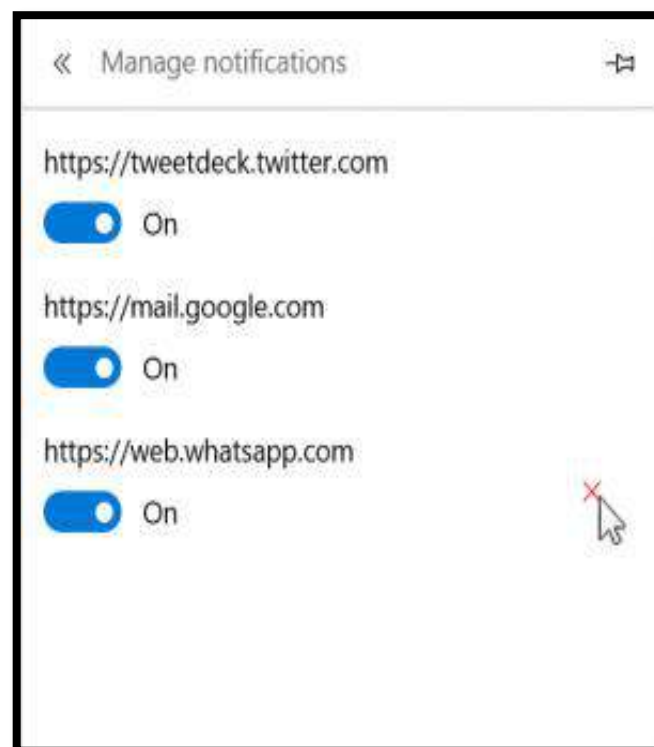
3D printed glasses help blind read printed text. A Poland based non-profit organisation has developed 'parsee'. The glasses recognise text objects and translates them through an earphone.



Microsoft Edge to follow Chrome, Firefox by turning on Web notifications by Default

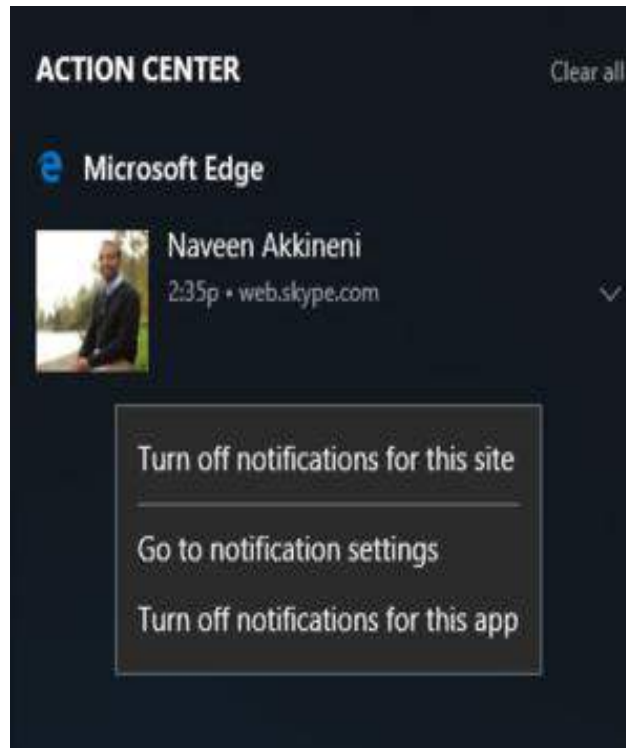
Beginning with Microsoft's Anniversary Update, Microsoft Edge Browser notifications will be turned on by default, sending a stream of updates to Windows 10.

The notifications will be sent to the Windows 10 Action Center, where they'll live alongside updates from Mail and other Windows 10 apps, alerting you that you may need to respond. And they'll be on by default, Microsoft said, though you'll need to give each site explicit permission to actually send you updates. If you do sign up for Edge notifications, the Settings menu will have a toggle to turn them back off.



Another difference in the way that Edge implements notifications is the degree of control it offers you. When a so-called “toast” notifications slides into view, you can either act on it- clicking on it will launch the site in a new tab- or let it slide into the Action Center for later review.

And if a site is simply spamming you with updates, you'll be able to right-click on the update and choose to opt out of all further updates, from either the website or even Edge Itself. Naturally, sites accessed via In Private anonymous browsing will not be able to send notifications, Microsoft said.



Each notifications will have options to control them as well as future updates.

The question, Microsoft said, is how long those notifications should persist (seven days is the default) as well as whether they should be active even when Edge is not loaded. Pushing notifications without a browser being active may be necessary to enable them with Windows 10 mobile, the company said.

Why This Matters?: Nobody wants to receive notification after notification, especially from sites that seem to publish new content every 10 minutes or so. But as long as you can turn them off- and websites don't somehow require them to keep their Daily Average User count on the rise- this might be a feature we can get behind. But it will only be palatable in small doses.

How NxtGen is improving data center agility with VCS Fabric?

NxtGen adopted VCS Fabric, which enabled them to transition gracefully to elastic, highly automated and cloud-optimized networks.



The Challenge:

The challenge, for NxtGen, was to meet the expectations of being ahead of its competition, along with keeping its costs lower than the rest of the market. The company realized a lack in their existing network infrastructure, which has been built on STP(Spanning Tree Protocol).

Initially it had two switches- active and passive. If the active switch fails for any reason, the passive switch becomes active automatically, which led them use only 50 percent of their network resources, which is truly a waste of resources, manpower, and even bandwidth.



Scientists in the UK have created five-dimensional glass discs that can store 360 TB of data for upto 13.8 billion years.



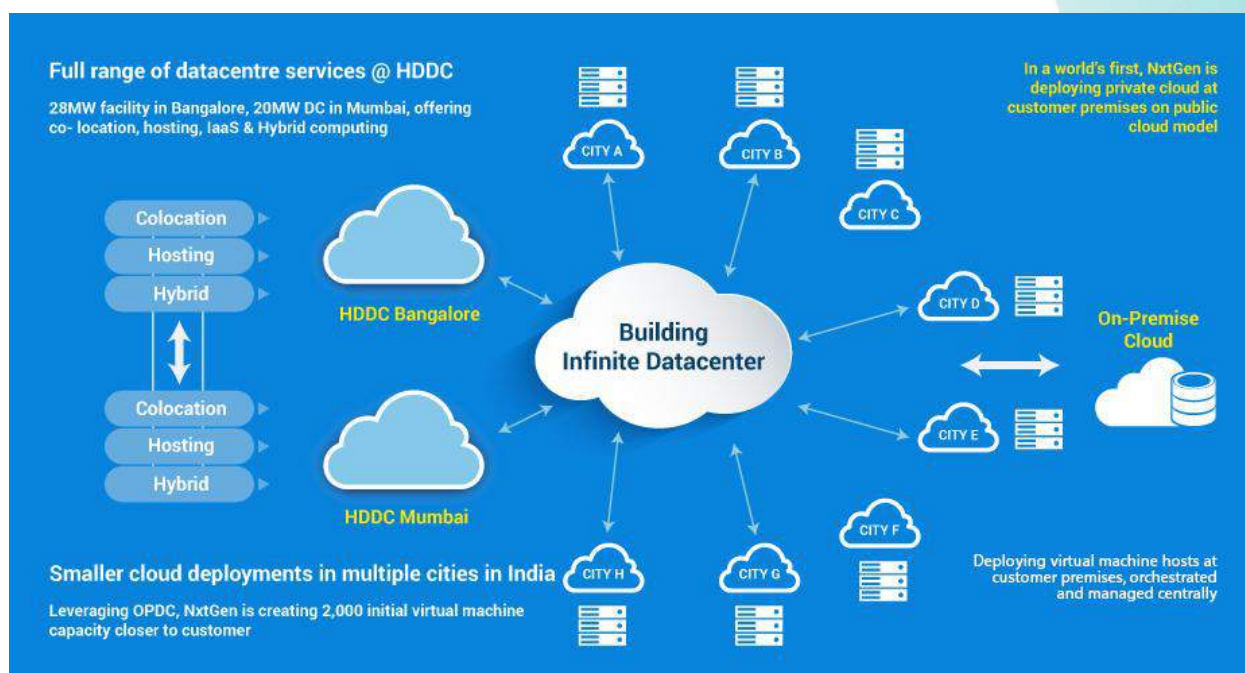
The Approach:

NxtGen used VCS (Virtual Cluster Switching) Fabric, a technology which provided advanced Ethernet fabric capabilities, which enabled them to transition gracefully to elastic, highly automated and cloud- optimized networks.

VCS Fabric technology does not use STP, rather, it is TRILL-based (Transparent Interconnection of Lots of Links) technology, which helped the company in standardizing on one switch family. Therefore, VCS fabrics allow active-active connections originating from the server, enabling rapid failover and convergence in the fabric.

The Benefits:

NxtGen is an early and innovative adopter of software networking that leverages new IP technology to transform their data center architectures and provide elastic infrastructure services on demand to its customers.



NxtGen have already established three data centers in India- two in Bangalore and one in Mumbai, and now have plans to open several more this year, tapping opportunities in the world's fastest-growing major economy.



8 popular data recovery tools for Linux

These open source data recovery tools can help you out to recover your disk failure Linux system:

1. Knoppix

Knoppix is one of the most popular recovery software available for Linux platform. It comes as bootable CD version with list of GNU/Linux software. Knoppix can auto detect the hardware and optimize the recovery tool by itself. Since it comes as bootable CD, you can use it as Linux demo, educational CD, rescue software or even a platform for commercial software product demos.

2. Trinity Rescue Kit

This is a free live Linux distribution that helps user to recovery and repair operations on Windows PCs. Anybody can easily use TRK to perform system maintenance and repair tasks such as password reset, disk cleanup to virus scanning on PC. Trinity Rescue Kit v3.4 and later have user friendly interface with scrollable text menu.

3. Avira Rescue System

This open source application can access the computer data of a damaged hard drive. It is possible to repair a damaged system, to rescue data or scan the system for viruses using Avira Rescue System. You can burn the software package on CD/DVD and use it to boot the computer.



4. GParted Live

This is a small Linux distribution designed for x86 based computers. GParted Live supports array of filesystem hence, it can be used to recover the damaged partition. It packs all the features of latest GParted apps.

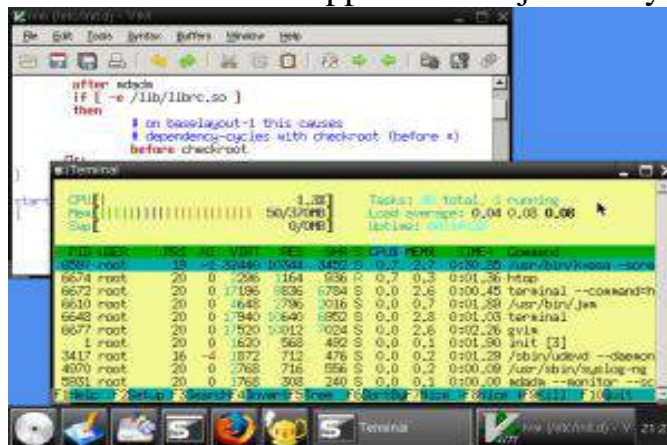


A brother-sister duo Rahul Baxi and prachi Baxi have developed a smart cooking pan 'Smartypans', that tracks nutrition in real-time and also gives cooking instructions.



5. System RescueCd

RescueCd packs number of Linux software, system tools, basic tools etc. It can be booted from CD/DVD or USB stick. You can easily carry out most admin tasks on computer like creating and editing hard disk partitions, clearing memory cache etc. RescueCd kernel supports all major file systems for Linux.



6. Ubuntu Rescue Remix

This is a robust yet lean system for recovery software, data recovery and forensics. Ubuntu Rescue Remix uses terminal commands UI for operations. It has a unique tool called ddrutility, which identifies files affected by unrecoverable blocks on disk image. This is the best bet for systems with low hardware configuration. The command line environment features all the functions of powerful data recovery software.

7. F-Secure Rescue CD

This data recovery tool is based on Knoppix derivative of Linux OS, which lets user run the software completely from a CD and check integrity of installed applications. This tool is capable of recovering the system from malware infections. However, this tool cannot scan the encrypted hard drive. It is possible to perform advance data repair and recovery using F-Secure Rescue CD.

8. Ddrescue

This data recovery tool from GPU comes very handy in copying data from one file or block device to another. If read error occurs, it automatically rescues the data. You can always terminate any automatically triggered operation in Ddrescue. Ddrescue can detect the memory errors, dead blocks, log file as well as rescue the good part of it. It operates automatically.

BookMyShow scores a six in T20 World Cup with queue management

Thousands of supporters thronged the stadiums to watch the T20 matches, perform Mexican waves, create a rippling electrifying atmosphere and shout out jingles to support BookMyShow.com as their ticketing agency.

“We could foresee the demand and supply difference when it came to selling World Cup T20 tickets and we wanted to provide customers a seamless ticketing experience,” says Patel.

With more and more consumers transacting online in India, BookMyShow decided to sell tickets via a lucky draw system.

It works on a randomized algorithm to pick up registrants randomly from the registration database. The parameters set for selection are the match and the category chosen- naturally, users who have already won are eliminated. The lucky draw engine then starts picking up users registered for higher price value tickets and then moves to the lowest.



Through the lucky draw system, the company wanted to address the needs of two sets of customers-those who actually want to make a transaction and buy tickets and those who only wanted information about the match schedule, the stands available and the ticket prices for a particular match.



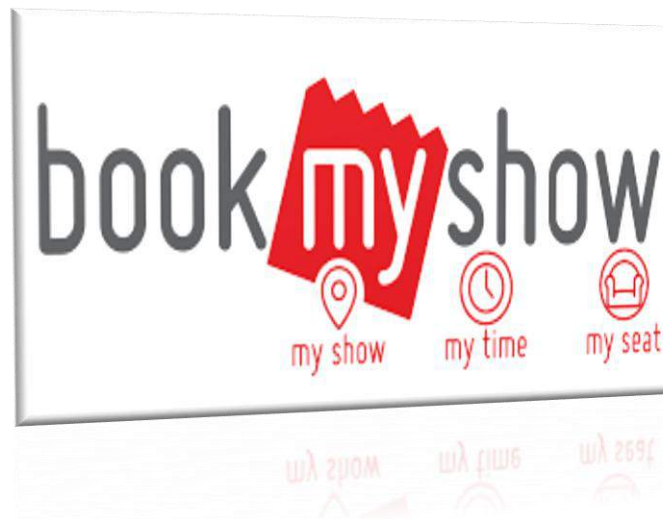
Researchers from Harvard's Wyss institute have created a small hexagonal robot called Root to get children interested in coding.



This model helped in dividing traffic coming from both sets of customer, ensuring that there was no overloading of servers.

“A platform such as ours faces a lot of load during any major activity. To ensure the app or site doesn’t crash, we pre-empted the high load during World T20 and deployed a lucky draw system,” says Patel.

The most crucial task was churning the registrations database and shortlisting winners within seconds. However, to overcome the issue,”we included caching technologies and queuing system in our tech stack for the registration process, which helped us in handling millions of registrations,”says Patel. OTP was made mandatory while registering and this eliminated fake registrations.



With this, BookMyShow was able to sell tickets for all big world cup matches without technical glitches.

What was the role of Patel in this project? He explains, “My major focus was on security and scalability. We knew that World T20 is an international event; not only will it attract a lot of customers but also face threats from hackers who want to break the system.” To counter them, they hired White Hat hackers to hack into their systems to expose vulnerabilities.

Throwing some light on the plans for the future, Patel said that, to give a fair chance to all users, they would like to use the lucky draw system for big events in the future.

LEARN A TOOL

TEXT EDITING:

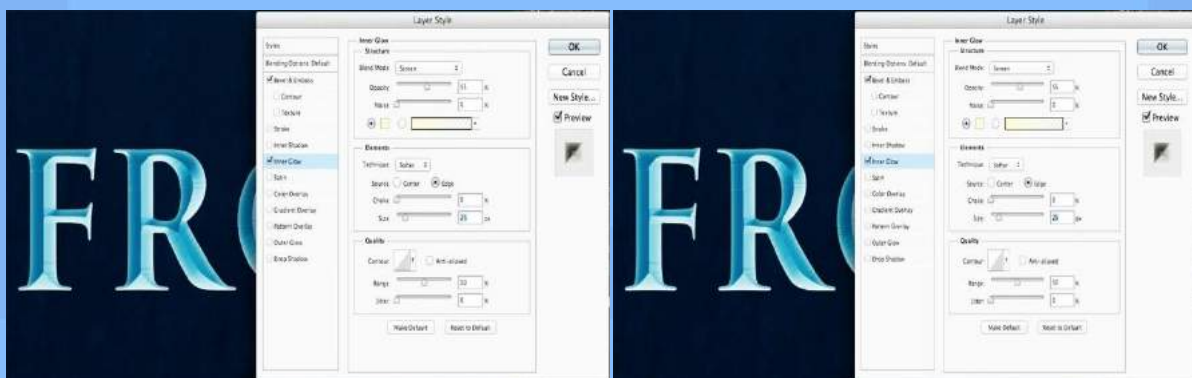
STEP 1: Open the new layer and fill the background with a dark navy blue, and then add in one of my textures, with the Blend Mode set to multiply.

STEP 2: To finish the background, add a slight highlight. Creating new layer, add a single spot around the top right corner of this document, then change the Blend Mode to Soft Light, and decrease the Opacity.

STEP 3: Now we can start with the text by using the **type** tool, the font name is **Trajan Pro**, set to **bold**, and the color will be a lighter blue: **#0c86ae**, type out the word **Frozen** in the center of the document.



STEP 4: Next applying a few Layer Styles, to give our text a bit of shape. The first style we're going to add, will be Bevel & Emboss. And to add a bit glow to the inside of the text, we're going to add an Inner Glow and Outer Glow.



STEP 5: This is where texture number two comes into play. Place the second texture on top of the text, then by right-clicking on the texture layer and choose **Create Clipping mask**.



Startup 3Doodler has launched a \$39 3D-printing pen '3Doodler Start', that lets kids make three-dimensional creations.



FROZEN

STEP 6: Set the Blend Mode to Hard Light. That give you a nice vibrant look to the texture.

STEP 7: To apply a distortion to a Layer Mask. With your Command/Ctrl key held the type layer's thumbnail to turn it into a selection, then add a Layer Mask. This will give us a border to apply our filter to.



STEP 8: Now that the mask is in place, add the Wave distortion under the Filter > Distort menu.



STEP 9: See that the edges of your type layer are now cracked and chipped.



Samsung started rolling out the Android 6.0 Marshmallow operating system to its flagship Galaxy devices.



REVIEW BOX

Intel® Edison and Mini Breakout Kit

The Intel® Edison is an ultra small computing platform that will change the way you look at embedded electronics. Each Edison is packed with a huge amount of tech goodies into a tiny package while still providing the same robust strength of your go-to single board computer. Powered by the Intel® Atom™ SoC dual-core CPU and including an integrated WiFi, Bluetooth LE, and a 70-pin connector to attach a veritable slew of shield-like “Blocks” which can be stacked on top of each other. It’s no wonder how this little guy is lowering the barrier of entry on the world of electronics!



The Intel® Edison packs a robust set of features into its small size, delivering great performance, durability, and a broad spectrum of I/O and software support. Those versatile features help meet the needs of a makers, inventors, and beginners. This is a module with a high speed processor and WiFi and Bluetooth Radios on board. It’s low power and small footprint make it ideal for projects that need a lot of processing power, but don’t have the ability to be near a larger power source or have a large footprint.



Govt e-marketplace gets clearance. The finance ministry gave its clearance for the creation of a ‘Government e-Marketplace’ for online purchase .



The Intel® Edison Mini Breakout is designed to expose the native 1.8 V I/O of the Intel® Edison module. The board consists of power supply, battery recharger, USB OTG power switch, UART to USB bridge, USB OTG port, and I/O header

```
root@edison:~# systemctl unblock bluetooth
root@edison:~# bluetoothctl
[bluetooth]# agent KeyboardDisplay
Agent registered
[bluetooth]# default-agent
Default agent request successful.
[bluetooth]# scan on
Scan started
[CGM] Controller 00:11:22:33:44:55 Name: Edison
[CGM] Device 88:96:7b:ca:03:e6 My Bluetooth Device
[bluetooth]# pair 88:96:7b:ca:03:e6
Attempting to pair with 88:96:7b:ca:03:e6
[CGM] Device 88:96:7b:ca:03:e6 Connected: yes
Request confirmation
[agent] Confirm passkey 197096 (yes/no): yes
[CGM] Device 88:96:7b:ca:03:e6 Model: 48D-V03ACD1ZAA88600
[CGM] Device 88:96:7b:ca:03:e6 UUIDs:
00000000-0000-1000-8000-0000567bcafe
00000001-0000-1000-8000-0000567bcafb
0000110a-0000-1000-8000-0088567bcafb
0000110c-0000-1000-8000-0055567bcafb
0000110e-0000-1000-8000-0088567bcafb
00001118-0000-1000-8000-0088567bcafb
0000111e-0000-1000-8000-0055567bcafb
00001127-0000-1000-8000-0088567bcafb
00001129-0000-1000-8000-0088567bcafb
00001200-0000-1000-8000-0088567bcafb
[CGM] Device 88:96:7b:ca:03:e6 Paired: yes
Pairing successful
[bluetooth]# connect 88:96:7b:ca:03:e6
Attempting to connect to 88:96:7b:ca:03:e6
Failed to connect: org.bluez.Error.Failed
[CGM] Device 88:96:7b:ca:03:e6 Connected: yes
```

Features:

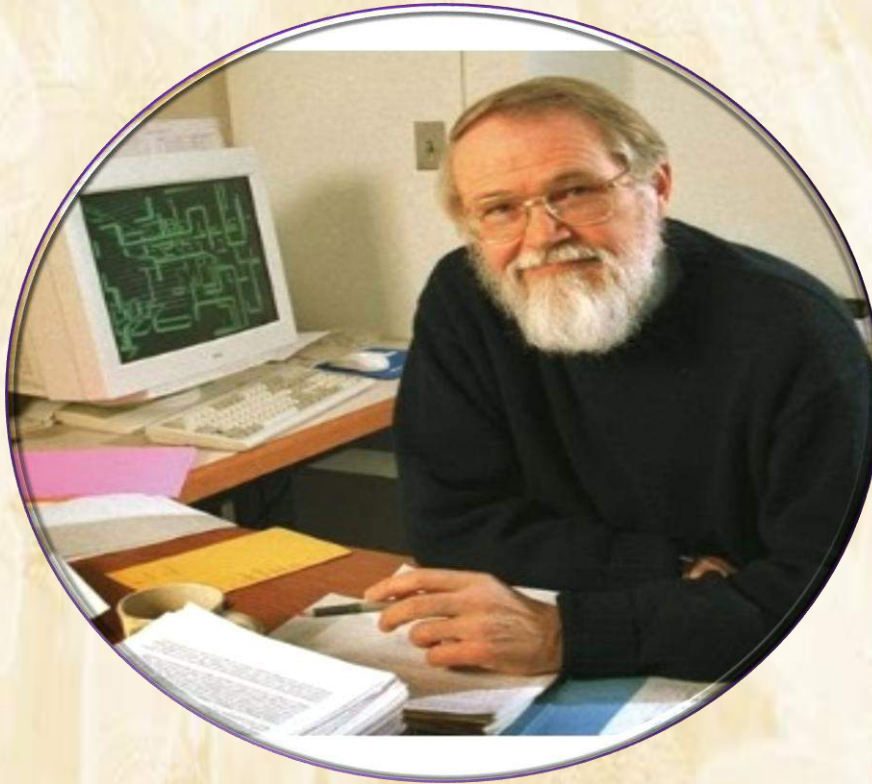
- Intel Atom System-on-a-chip (SoC) based on leading-edge 22nm Silvermont microarchitecture including a dual-core CPU and single core microcontroller (MCU).
- Integrated Wi-Fi, Bluetooth LE, memory and storage.
- Support for more than 30 industry-standard I/O interface via a 70-pin connector.
- Support for Yocto Linux, Arduino, Python, Node.js and Wolfram.
- Open source community software tools enabling ease of adoption and inspiring third-party app developers to build apps for consumers.
- EDI.SPON.AL.S (System-On-Modules-SOM Edison Module IoT Internal Antenna).



A Chinese startup has developed \$7 home guarding smart robot 'AiJia Pro', that is capable of real-time 360 degree monitoring of home.



FAMOUS AND FAVORITE



KEN THOMPSON

FOUNDER OF UNIX OS

Ken Thompson was born in New Orleans, Louisiana, in 1943. In 1969, Thompson and colleague Dennis Ritchie created the UNIX operating system at Bell Telephone Laboratories.

Kenneth Lane Thompson was the principal inventor of UNIX .

Thompson's Unix development was also instrumental in the development of the C programming language.

Awards received by Thompson:

- Turning Award, 1983- Implementation of UNIX operating system.
- IEEE Richard W. Hamming Medal, 1990 – Origination of UNIX OS and C programming Language.
- Japan Prize, 2011 – Pioneering work in the development of UNIX OS.
- In 1997, both Thompson and Ritchie were inducted as Fellows of the Computer History Museum for "the co-creation of the UNIX operating system, and for development of the C programming language."



A Russian startup has developed 'Evapolar', a \$179 portable personal air conditioner that cools, humidifies and purifies air.



IT VITA

1. Who invented the first practical typewriter and QWERTY keyboard?
2. What is the full form of “Wipro”?
3. What command is used to count the total number of lines, words, and characters contained in a file?
4. What is the dotted decimal notation of the 32-bit internet address 10000000 00001010 00000010 00011110 ?
5. 'DTP' computer abbreviation usually means ?
6. What is the sampling rate, (how many samples per second are stored) for a CD ?
7. What do we call a collection of two or more computers that are located within a limited distance of each other and that are connected to each other directly or indirectly?
8. What does AM mean?
9. What is the average power (in watts) used by a 20 to 25 inch home color television?
10. What is the tool that allows you to change your default X Window desktop?
11. Windows is to pane as book is to which form?.
12. Who is the founder of Rediffmail?
13. Sometimes computers and cache registers in a food mart are connected to a UPS system. What does UPS means?
14. Who wrote the famous book-‘WE THE PEOPLE’?
15. What hardware architectures are not supported by Red Hat?

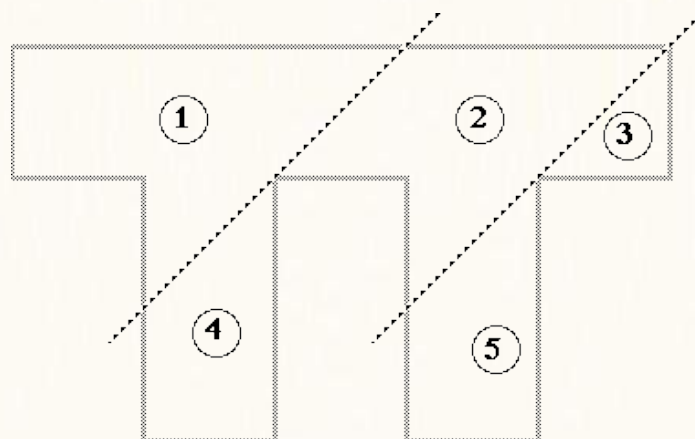


A 13 student-team of IIT Kharagpur has developed i-Bike a disabled friendly bicycle that autonomously rides itself towards any given location.



MIND PUNCH

1. Given only one of each letter in the alphabet, what are the smallest and largest numbers that you could write down?
2. A man is standing in front of a painting of a man, and he tells us the following: "Brothers and sisters have I none, but this man's father is my father's son". Who is on the painting?
3. Cut up the Greek letter Pi below into five pieces as shown.



Re-arrange the five pieces to make a square.

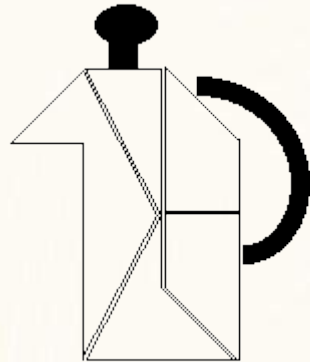
4. A farmer has 100 hens, numbered from 1 up to and including 100. Only the hens with the numbers 12 up to and including 48 each lay one egg. How many of the hens have not laid an egg?
5. Our earth orbits around the sun. How long does one complete orbit of the earth around the sun take?



Samsung has launched its T3 external solid state drive (SSD) in India. It is available in four variants of 250GB, 500GB, 1TB and 2TB.



6. A tea-time jigsaw for you to try this month..!!



Cut out the five pieces of the teapot to make the letter T.

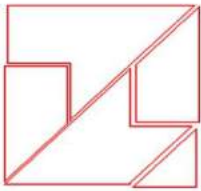
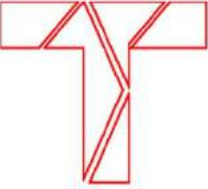
7. What is a word made up of 4 letters, yet is also made up of 3. Sometimes is written with 9 letters, and then with 4. Rarely consists of 6, and never is written with 5.
8. A certain street contains 100 buildings. They are numbered from 1 to 100. How many times does the digit 9 occur in these numbers?
9. During what month do people sleep the least?
10. What number come inside the circle?



Xiaomi unveiled 'Mi Bluetooth' speaker priced at rupees 1,999. The metal body speaker weighs 270 grams and features Bluetooth 4.0.



Mind Punch

- Using only one of the alphabet, you can spell:
ZERO or NOUGHT
MINUS FORTY
FIVE THOUSAND.
- His Son. We can replace “my Father’s Son’s” by “myself” since he is the only child.
Now Remains: “This Man’s father is myself”,
so this man is his son.
- 
- 64
 $(48-13)+1=36$ hens have laid an egg.
 $100-36=64$ hens have not laid an egg.
- Less than $365 \frac{1}{4}$ days. The earth makes one orbit around the sun in 365.2422 days.
- 
- Correct, the word 'what' has 4 letters in it, 'yet' has three, 'sometimes' has 9, 'then' has 4, 'rarely' has 6, and 'never' has 51.
20. Just count the nines in the numbers: 9, 19, 29, 39, 49, 59, 69, 79, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99.
- February, it's the shortest month after all.
- 6.

IT VITA

- Christopher Latham Sholes.
- Western India PROducts.
- Wc.
- 128.10.2.30.
- Desk Top Publishing.
- 44.1 kHz.
- Local Area Network.
- Amplitude modulation.
- 70-100B.
- Switch desk.
- Page.
- AjitBalakrishnan
- Uninterruptable Power Supply.
- NaniPalkhivala.
- Macintosh.



Chinese startup GPD has created a \$299 pocket-sized gaming laptop 'Win', which integrates a joystick, mouse and keyboard.



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...!!*