



2nd Anniversary Issue 2015

GOOGLE ARA

Google will be bringing the first modular Smartphone to market inside 2015, known variously as Project Ara or Google Ara. This is definitely something to keep an eye on.

The concept is a simple one — you buy a basic model Ara phone and all the bits can be pulled off and swapped as you see fit.

AIM of Google for GoogleARA:

By creating a phone that can have each component changed, Google believes it will drive down hardware pricing while allowing users to pick and choose what they want. That's what Google's Project ARAA modular Smartphone.



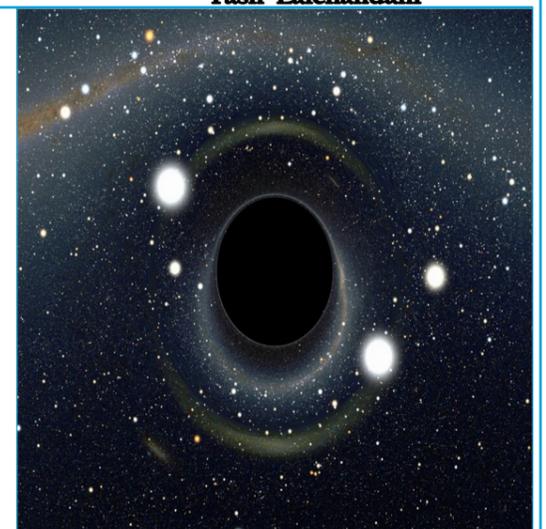
The Project Ara smartphone will allow everyone to build their own perfect smartphone. If any person wish to have a high power camera, another may wish to splash out on more memory. Whatever the desired goal user want he is able to modify the device by changing the different modules on same device. The latest Android 5.0 Lollipop operating system will be modified slightly to make it suitable for the Ara. The project's team leader Paul Eremenko, has promised the Android team is working to make sure the Ara phone is a priority and gets the latest updates. It works on Android OS. It is developed by Paul Eremenko, Regina Dugan Google, Motorola (Former) and Linaro.



Yash Lalchandani

What happens when two black holes collide?

A team of prominent researchers have discovered what appears to be the start of two massive black holes at the centres of their own galaxies beginning to collide. Such an event should come as no surprise, considering that there are up to 200 billion galaxies in the universe (according to Space.com), so two of them are bound to bump into each other from time to time. In fact, astronomers have already observed the merging of galaxies, but they've never before witnessed the end stage process of galaxy commingling, which results when the two central black holes smash into each other, releasing some pretty violent cosmic fireworks that could warp space-time itself less than the length of our solar system apart. The researchers, including scientists from Caltech and NASA's Jet Propulsion Lab, have theorized that an unusual light signal they're seeing from



quasar PG 1302-10 essentially a black hole emitting light from the superheated particles swirling around its gravitational drain — is being caused by the cosmic dance between two black holes in the system, each located less than the length of our solar system apart. The theory was published in the journal Nature. While other cosmic phenomena could explain the light signature, the scientists became confident that their theory is the most likely after analyzing the quasar's light spectrum. "When you look at the emission lines in a spectrum from an object, what you're really seeing is information about speed — whether something is moving toward you or away from you and how fast. It's the Doppler effect," With quasars, you typically have one emission line, and that line is a symmetric curve. But with this quasar, it was necessary to add a second emission line with a slightly different speed than the first one in order to fit the data. That suggests something else, such as a second black hole, is perturbing this system. If the theory is correct that when the two black holes collide, they could release the energy equivalent to 100 million supernova explosions, which would rip apart the galaxy.



Kshitij Acharya

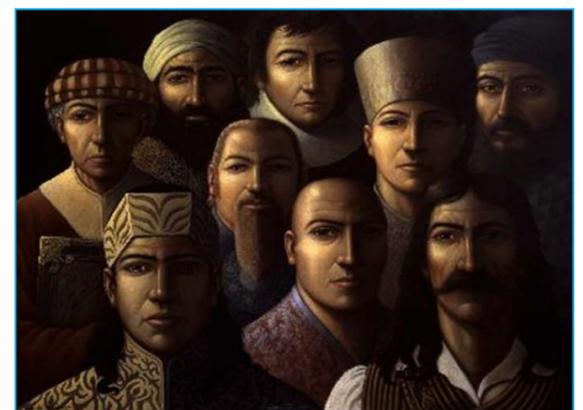
The Unknown Nine....

Emperor Ashoka has been a great warrior and conqueror of all the time in Indian history. But there is one mystery related to Emperor Ashoka which will surprise you. He accepted Buddhism after the battle of Kalinga. Emperor Ashoka was the most gallant king and conqueror the Indian soil ever produced. According to legend, this powerful secret society was founded by Emperor Ashoka of India in 273 BC after a bloody battle that took the lives of 100,000 men. It was said that after Ashoka conquered the region of Kalinga, which lay between what is now Calcutta and Madras, he looked at the massacre of all the men and was truly disturbed. Instead of waging more wars, his priority became to integrate "rebellious" people into the society. He found that, especially in war, intelligence, scientific and technological breakthroughs were often put to evil uses. Therefore, during his reign, natural science, past and present, were vowed to secrecy. This led to his creation of the Nine Unknown Men. In his book, "Outline of World History," H.G. Wells wrote: "Among the tens of thousands of names of monarchs accumulated of the files of history, the name Ashoka shines almost alone, like a star." The function of the Nine Unknown Men was to preserve and develop the type of secret information that would be too dangerous in the hands of the unknowledgeable. Each of the Nine men was tasked with holding a specific special book of knowledge. Some of these books are even said to hold the secrets of anti-gravity and time travel. In 1923, the world learned about the existence of these mysterious men through a book written by Talbot Mundy, "The Nine Unknown," who was a member of the British police force in India for 25 years. In his book, Mundy wrote that Asoka's society employed a synthetic language. He also revealed that each of the nine members possessed a book that was constantly rewritten, updated and contained detailed accounts of a certain scientific subject.



Shery Rawal

1. **The first** book dealt with techniques of propaganda and psychological warfare. "The most dangerous of all sciences is that of molding mass opinion, because it would enable anyone to govern the whole world," according to Mundy.
2. **The second** book discussed physiology and explains how to kill a person simply by touching him or her, known as the "the touch of death," simply by the reversal of a nerve impulse. It is said that the martial art of Judo is a result of "leakages" from the second book.
3. **The third** volume focused on microbiology and biotechnology.
4. **The fourth** dealt with alchemy and transmutation of metals. According to another legend, in times of severe drought, temples and religious relief organizations received large quantities of gold from "a secret source."
5. **The fifth** book contained a study of all means of communication, terrestrial and extraterrestrial. Eluding then that the Nine Unknown Men were aware of alien presence.
6. **The sixth** book focused on the secrets of gravitation and actual instructions on how to make the ancient Vedic vimana, (like vaiminika shastra on aerospace technology).
7. **The seventh** contained cosmogony and matters of the universe.
8. **The eighth** dealt with light including the speed and how to use it as a weapon.
9. **The ninth and final book**, discussed sociology. It included rules for the evolution of societies and the means of foretelling their decline. The number of the Unknown Men is always nine, and their undisguised contacts with the outside world are few and far between. Much like secret groups such as the Illuminati, there are many rumors about their current and past members.



Knowledge was, and still is, their power.

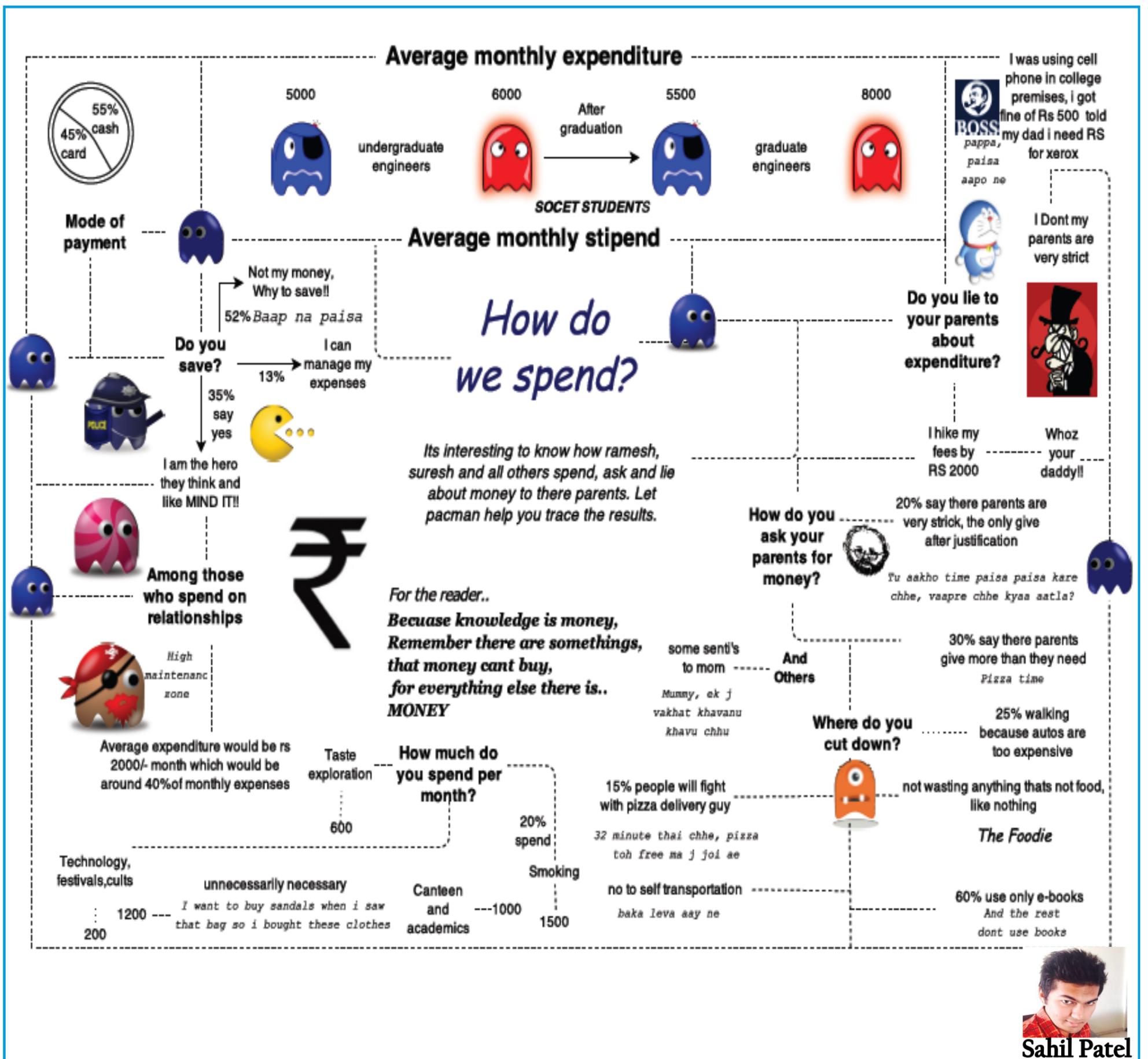
Wireless charging- A Change for the generation

Industry standards come together to simplify and speed the proliferation of wireless charging, leading airports, hotels and other locations to trial battery refueling technology.

Similar to how the Wi-Fi revolution in 2003 let people connect their mobile computers to the Internet without wires, new wireless charging technologies aim to free people from having to rely on their power cords at all. At the 2015 International Consumer Electronics Show, two wireless charging technology standards groups merged, making it simpler and potentially quicker for this technology to be widely adopted. The Alliance for Wireless Power, which supports a technology called **Rezence** or magnetic resonance, and Power Matters Alliance joined forces to help build momentum for wireless charging. Wireless Power or Magnetic Resonance is where electricity transfers safely between two objects through metal coils. Magnetic Resonance technology provides positional flexibility, charges through most tabletops, and can simultaneously charge multiple devices of various sizes and power levels. The research firm expects number of wireless charging receivers based on so-called loosely coupled technology, such as magnetic resonance, will overtake those which use other wireless charging technologies in 2017. The collaborators are developing and deploying wireless-charging pilots, which plans to install wireless charging capabilities. It was demonstrated how a personal computer, in this case a 2 in 1 laptop-to-tablet device, can be placed on table and start charging.



Yash Bhatt



From Engineer To Design Engineer :

8 Steps To Transform Your Career

One Of the Questions which keeps hammering our head is how to fly outside the cage of being only Mechanical Engineer to becoming a good designer.

Making The Transition from persuing Mechanical Engineering till innovative designing. It is a Tough One, but it is doable if you are really dedicated To Making that Happen. Hard work and creative thinking Has A Lot To Do With It, But Here are Few Tips Based On My Personal Experience And The Experience Of People I've met in my life.

1. Design (Keep twisting existing designs, sometimes some mistakes can be proved boon to the society)
2. Be Willing To Move Laterally (Move out of your comfort zone, keep learning!!!)
3. Cad, Cad, Cad And Did I Mention, Cad?(Yes!! CAD is our VISHWAKARMA)
4. Read The Motivational, Inspirational Or Holy Books(I know you are not going to follow this but still try at least.....;))
5. Make It Personal(Relate Your All Designs With The Way You Want Them Let it be awkward)
6. Meet People (Don't only Meet Famous Mechanical Engineers, sometimes illiterate but skilled labor has better advice to give.)
7. Take One Step Back, To Take Two Steps Forward.(Also mind your steps)
8. Move (To The Place Where you can explore new avenues of life.)



Rutul Shiroya

SELF DEFENCE PROGRAM

Today we come across several disappointing cases of women being molested every now and then in our society. All women live with a certain level of risk of violent crime. Statistics show that a woman, now 21 years old has a 1 in 4 chance of experiencing a violent crime in her lifetime. Now this is a serious problem which needs some immediate steps to be taken. SILVER OAK GROUP OF INSTITUTES doesn't want to compromise with such a huge problem and in order to deal with it College organized WOMEN'S SELF DEFENSE Program. About 70 girls including lady faculties participated in the event which was organized within the campus. The event took place for 5 days from 24/02/2015 to 28/02/2015. They learnt different types of defence techniques. This style of training has both increased physical thinking abilities of girls. It can be moulded to any person regarding athletic ability, size or experience. In our opinion it supersedes all other styles.



SUCCESS STORIES of CAMPUS:



Archit Sandesara
Recruited at E-Clinical
Works



Priyank Patel
Recruited at In-
fosys 3.2
4



Smit Chandarana
recruited at TCS 3018

Archit Sandesara was placed in E-Clinical works this year, and has received the annual package of 3.45 lacs. We got a chance to interact with him and know his views. Below are the excerpts from the interview.

(TECOS) Mohib: How was your experience sitting in the full fledged TPO Cell of SOIT, and how was the overall flow of Placement went on.

Archit: First of all, It was a life time experience which I'll never ever forget. The amount of hard work TPO cell puts in is just incredible. Management plans to provide the best industrial interface to the students. The placement procedure started in the 7th sem. Then I sat in the placement drives of series of companies, but as we say in Hindi :”**Ke baat kuch ban nahi rahi thi.**” Then I tried for E-Clinical works and got selected.

Mohib: So what are the key points to be kept in mind, when you are in the final semesters.?

Archit: First of all the mind set should be clear, regarding in which technology he wants to work with and then in context with that he should select the companies. Other necessary thing is that student should sit in almost all the drives so that he gets the experience and learns new things.

Mohib: Message you would like to give for the students sitting in the Placement drive for this year.

Archit: The main thing I want to share is that juniors must grab the opportunity given by the management. Involve with the TPO as much as you can, Extra curricular activities are an integral part of Engineering, Sports other than cricket as if like Marathon and so are also good, So at the end involvement in every aspect is very much necessary.

NOTE : 102 students got placed from the year 2013 onwards and 11 students enrolled with different companies for internship. Kudos to them ;)

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