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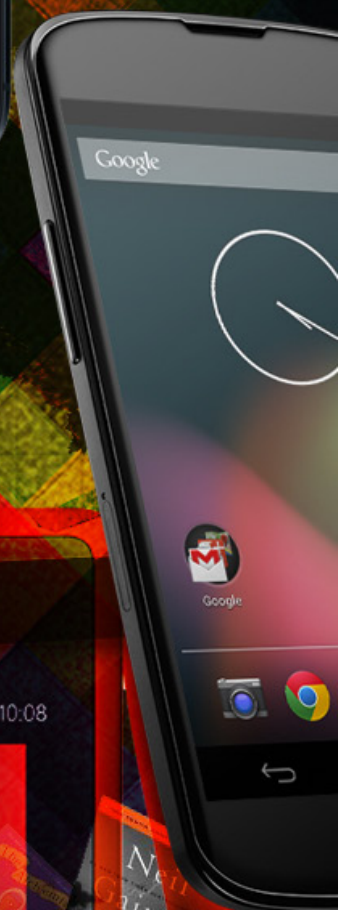
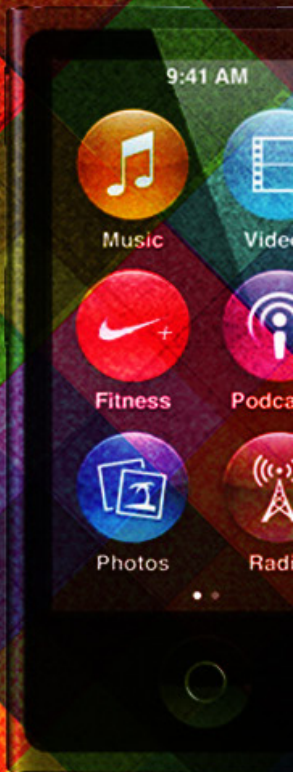
october 2012

When I wake up, the other side of the bed is cold. My fingers stretch out, seeking Prim's warmth, finding only the rough canvas cover of the mattress. She must have had bad dreams and climbed out with our mother. Of course, she did. This is the day of the reaping.

I prop myself up on one elbow. There's enough light from the bedroom to see them. My little sister, Prim, is curled up on her side, cocooned in my mother's arms. Their cheeks pressed together. In sleep, my mother looks younger, still worn but not so beat-down. Prim's face is as fresh as a raindrop, as lovely as the primrose for which she was named. My mother was very beautiful once, too. Or so they tell me.

Sitting at Prim's knees, guarding her, is the world's ugliest cat. Mashed-in nose, half of one ear missing, eyes the color of rotting squash. Prim named him Buttercup, insisting that his muddy

kindle



THE GADGET MANIA'S HERE!

EDITOR'S MESSAGE

AN ANNOUNCEMENT



It's been a very happy journey creating MVDIT TECH BOOK for the last 5 years. MVDIT TECH BOOK has grown as an eZine.

However lately we haven't been able to keep up the promise of creating a monthly magazine for our readers. Nor have we been able to deliver news at a constant rate.

This is because, I am a student and am currently studying in 12th Standard. And since being in twelfth also pushes a responsibility and the joy of studying about things that we will eventually be doing in the future, priorities have shifted slightly. eZine creation has taken a step back and studies have taken the coveted high priority spot. This has led to an obvious irregularity in creation of the eZine.

Our last edition came out in July 2012. It's funny how two months change a lot. Last month we were talking about the iOS6 improvements, Windows Phone 8 Announcements, Retina Display Macs and the new Nexus announcements. This month, we're talking about product launches. Windows Phone 8 Products have made it to the market. Microsoft Surface is already selling. Retina Displays have come on 13" Macbook Pros too. Two Months make a world of a difference in the world Tech.

This Month We'll be focusing on the new iPhone 5, iPad Mini, Amazon's new Kindle Paperwhite, Kindle Fire HD, The New Nexus Phone and the 10 inch Tablet from Google. Also we'll be talking about Windows Phone 8 Devices like HTC 8X and Nokia Lumia 920. And then there is a new iPod Waiting to sell hotcakes too!

- Vidit Bhargava,
Co-Editor MVDIT TECH BOOK

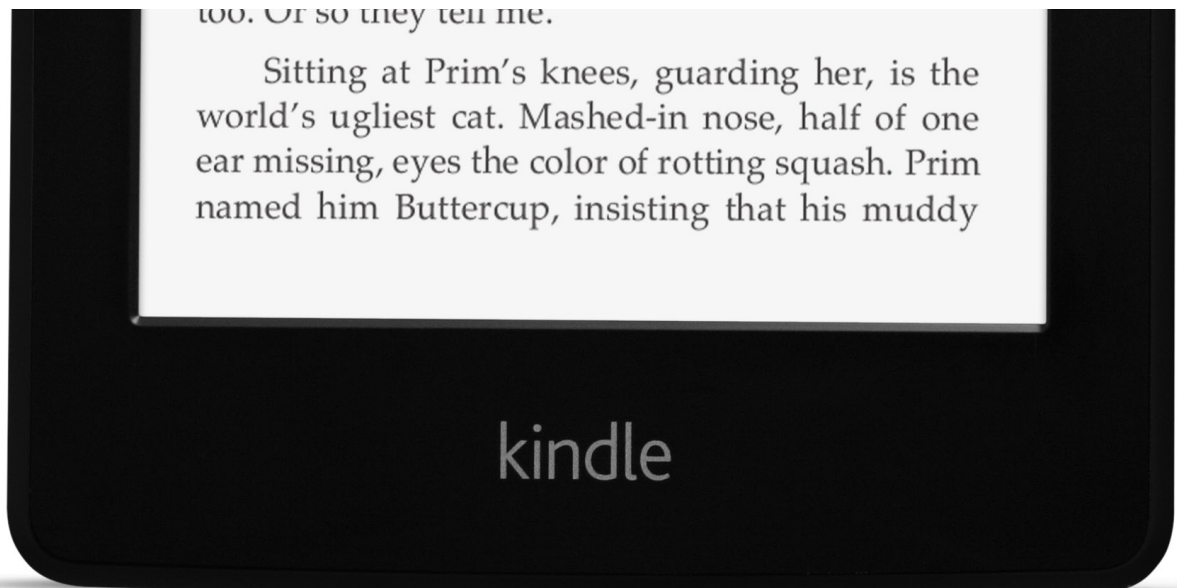


The iPhone 5



iPod Nano

ALL LOGOS AND PICTURES OF OTHERS ARE PROPERTY OF OTHERS



AMAZON'S NEW HARDWARE



MICROSOFT ARMOURY



NEXUS BATTLE

MVDIT TECH QUIZ

COVER STORY

iPad Mini

Vidit Bhargava

23rd October 2012, Tuesday:
About 11 years ago, the same day Apple presented to the world something that changed the music industry forever. The iPod was born on 23rd October 2001 on a Tuesday, when XP was just a couple of days away. 2012, 23rd October. Tuesday. Just a couple of days away from windows 8 launch and we have the iPad Mini.

The iPad Mini is Apple's latest offering in the tablet space, basically its a 7.9" iPad. Complete with its 275,000+ apps and a posh apple design. To top it up the iPad Mini has also got cellular connectivity providing a good portable experience. And, it has the same 10 hours of battery life.

Well, Isn't it just about it? I mean, you aren't getting a new category of devices over here, you are just getting a smaller iPad. But there's more than what meets the eye. iPad Mini has something more to offer.

With its 7.9" form factor, the iPad Mini becomes a rather comfortable and portable post PC device to carry in your pocket, purse or hand back. It's just about half the weight of the iPad and its better at a host of portability tasks, which the iPad in its 7.9" form factor is unable to do.



Cameras:

One of the Most pointless features of the iPad have been its back camera. It's an extremely uncomfortable way to click photos. The iPad Mini on the other hand is a very portable device and is 'easier' to click photos with.

Add to that a 5MP Camera and 1080p recording. The iPad Mini is a far better at clicking pictures than the 9.7" iPad is.

Gaming:

Frankly, the iPod Touch is the best iOS Device for casual gaming. But don't expect it to be as friendly with Next Gen Graphic Games too. You'll need a bigger screen to enjoy them. The iPad offers just that to a good extent. But with the iPad Mini, you're getting an intersection of what the iPod Touch and the iPad have to offer. Giving game developers and gamers a new experience.

The gaming market is pretty flexible at the moment. While there exist classics like FIFA or NFS but the mobile device market also has a share of emerging games which are adapt to various screen sizes. For example while CoD Modern Warfare changed the way people thought of first person shooters on their PCs and Playstations, the likes of Angry Birds and Temple Run rewrote a new history of casual games on the 3.5" devices. Infinity Blade on the other hand has played a major role in shaping a console like environment for iPad Games. The iPad Mini is sure to have its share too. It's experiencing the best of both worlds right now. Killer graphics + Addictive Games. Thumbs up for this!

The iPad Mini in many ways is an intersection of the stuff you'll be able to do too well on your



iPod Touch but not the iPad or vice versa. Portability plays a major factor in this, just because the iPad Mini is more portable than an iPad, you'll find more people reading books on it, on the go, also the iPad Mini is better at handling documents, spreadsheets, keynote and other core editing tools in a much better way than the iPod Touch. Though, it's still not going to be as efficient as the iPad.

The iPad Mini is offering a dual core A5 chip which apple could have done better and used A5X or A6, but its not bad it's quite optimum to perform tasks on the machine. Also given Apple's reputation of Providing integrated Hardware and Software performance, i can hardly imagine it being a cause of concern for Users. Apple's also using HD Cameras at both front and back of the device and providing a 5MP camera with Autofocus for back. The stan-

dard lightning connector and speakers are also there. Though no earPods out of the box are a bit of a let down.

The iPad Mini's Screen isn't bad, contrary to what you may have heard in the news. It's just not Retina. Which is one of the only few let downs, this device has. The 1024x768 resolution on 7.9" iPad Mini is any day better than iPad 2's resolution which itself wasn't very bad.

How Do Things Rack Up Against Competition:

Starting with Price, while Nexus 7 and Kindle Fire both start at \$199, the iPad Mini starts at \$329. Having said that, the difference in pricing is easily compensated by the build quality and the screen size, and state of the art design.

Brass Tacks, the iPad Mini has far more app selection than the Kindle Fire or Nexus 7 and while the iPad Mini offers full size tablet apps (they aren't scaled down, since the resolution is same as iPad 2) Nexus 7 and others are offering "scaled up" phone apps. Also while neither nexus 7 nor Kindle Fire HD offer Cellular Connectivity or larger storage options than 16GB usually, its going to be a good point to ponder on. Also, Games with Console like graphics form a major role in iPad Mini, they simply don't exist on other devices. And the difference in build quality is practically night



and day when you compare iPad Mini with other tablets.

The only places where the Nexus 7 and Kindle Fire HD give some competition is in terms of battery life, weight and pricing. Also in terms of display, Nexus 7 and Kindle Fire HD offer better solutions. Display plays a big role in a device's user experience exactly how much it effects is yet to be seen.



Pricing: The iPad Mini comes in 3 Variants and in two categories. There pricing is listed as follows:

| iPad Mini Variet | 16GB | 32GB | 64GB |
|------------------|-------|-------|-------|
| WiFi | \$329 | \$429 | \$529 |
| 4G + LTE | \$459 | \$559 | \$659 |

Summing Up:

The iPad Mini unlike what many think as a business decision rather than technology driven, is every bit as revolutionary as Apple's any other new launch. It's got a potential to squeeze itself a market place at the intersection of iPod Touch and iPad, it also becomes the first small tablet to have any real app selection. Apart from that the iPad Mini also brings a fresh breath of change from the ugly plasticity look of other small tablets. And One More Thing, the 4:3 aspect ratio makes it fine to use both ways.



HOW DOES THE iPad MINI MAKE A SPACE BETWEEN iPod TOUCH AND iPad?



| USE | iPad Mini | iPad 4th Gen | iPod Touch 5G |
|-----------------------|-----------|--------------|---------------|
| Email | | | |
| Usable when Mobile | | | No 3G |
| Games | | | |
| Games on the Move | | | |
| Books | | | |
| Clicking Pictures | | | |
| Portable Music | | | |
| Content Creation | | | |
| FaceTime | | | |
| Affordable iOS Device | | | |

KEY

| | | | |
|-------------|----------|-----------|-------------------|
| Abominable | Very Bad | Bad | Not so impressive |
| Fairly Good | | Very Good | |

APPLE FEED

iPhone 5

Vidit Bhargava

12th September 2012: More than half of the tech savvy audience rapt in attention gazing at their computer screens refreshing the live blogs watching their dream device get unveiled at the YBCA Mountain View. Such fanfare can hardly be associated with anything else but an Apple Device. In this case the next iteration of iPhone.

Something however irks me. Apple's products get leaked months before their launch. They get analyzed, tested and every minute detail about the gadget is leaked on the Internet. From what is going to go inside to how it will eventually look and feel. This is slowly reducing Apple's power of surprise. The fanfare and the audience for their keynote was only present for surprises. Take an example of the new iPhone 5. Each of its components got analyzed months before the launch. It was in May that we first saw the metal back. This hampered the excitement that was to build a few months later. Now take the example of Mountain Lion. The Mac-verse just went crazy at the arrival of Mountain Lion in July. Majorly because it was a surprise to see it in February this year. Or let's talk hardware. The New MacBook Pros made a roar too. Just because they're design we're largely unpredicted. Even the new iPods were a pleasant surprise.

Back to iPhone:

Hardware Design:

The iPhone hadn't been redesigned for two years now, the iPhone 4S looked quite the same as the iPhone 4. iPhone 5 However is a completely new design. It's thinner, lighter and taller and sports a new Aluminum + Glass Finish. It's nothing like the iPhone 4 or iPhone 4S in

terms of looks. More over this iPhone looks more like a finely crafted product.

The iPhone 5 is more of a hardware upgrade than software. Apple's built in a completely new Display that makes the iPhone screen look brighter and pushes the Retina Display just a notch higher. The new 8MP camera doesn't increase the mega pixels but improves the optics. Thus, improving the image quality vastly.

Screen: iPhone 5's 4" inch 16:9 display was more or less an inevitable change. When the



original iPhone launched it was fine to have a 4:3 display which ran most of the videos and provided a comfortable way to use the phone in both modes landscape as well as portrait. The subsequent iPhones might have had a larger display to accommodate 16:9 resolutions but by then the iPhone had come with an App Store. It would have been too risky a chance, to disrupt an emerging market and ask them to adopt to new resolutions as well as new aspect ratio. It was only too strategic for apple to release it now when the developer base is massive and developers have shown receptiveness towards little transitions before. Moreover, the market is not much fragmented, over the time 3.5" phones are going to get discontinued and the focus would be on the 4" devices.



Also the taller screen is better than a larger screen, by making it taller they made sure that they adopted the 16:9 aspect ratio without making the phone look and feel gigantic.

A new A6 Chip improves the phone's performance and its battery life too. The graphics and performance have doubled since the new iPhone and the Battery Life, a pleasant improvement has also increased. This is the first time we're seeing Apple introduce two SoCs in one year. They came up with A5X earlier this year



for the new iPad, boasting about the Quad Core Graphics and doubled up performance and they have now come up with A6 (which doesn't say it has quad core graphics but says that the graphics are twice as fast as A5). More or less, Apple is really fragmenting its SoC space, gadgets run various altered versions of A5 or A4 and now A6. Perhaps they're pitting everything on optimum performance rather than maximum performance.

The iPhone also has the headphone jack at the bottom of the phone now. Which is a nice ergonomic change for the users.

"With Thunder Comes Lightning"

Apple also introduced a new Connector for its iPhone. Its called Lightning. The Lightning connector replaces the largely used 30Pin Connector. In comparison to that, it's smaller, entirely digital and reversible. The connector comes in the new iPhone 5, the 5th Generation iPod Touch and the 7th Generation iPod Nano. Apple says that the 8 signal design is more durable than the 30Pin



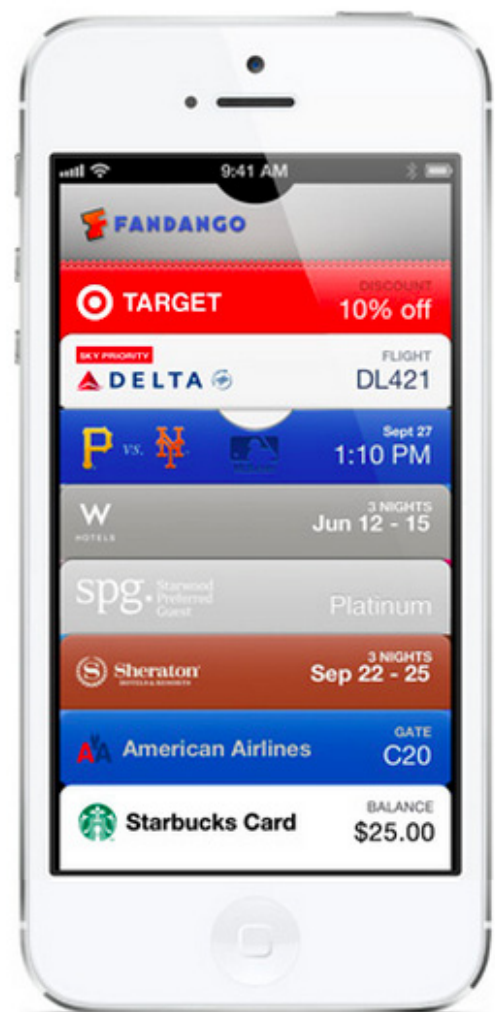


Connector.

However, there is a massive downside to this new connector. It renders all the current iPhone accessories (wired ones of-course) useless for the iPhone 5. So you'll either have to wait for the new ones to arrive in the market or you'll have to get an adaptor to use your old ones. Either way, its going to be a tiresome few weeks with that. In the long run however this change is quite a pleasant change.

4G LTE: The iPhone now supports 4G LTE too. Also, they've improved since the launch of iPad. 4G LTE connectivity is now available with most carriers around the world. So Apple isn't going to be creating different units for different countries any more (like they did with the iPad to implement 4G Connectivity).

There has been little software change however. The iOS6 on the iPhone 5 is more or less the same as the iOS6 on iPhone 4S. It's just optimized for



a longer screen. This is quite unlike Apple. Apple is known to reserve a few breakthrough features for its new phone only. For example, the iPhone 3GS' iOS3 had Video Recording and Editing and a few other improvements from the iOS3 on iPhone 3G, the iPhone 4 had FaceTime, the iPhone 4S had Siri. iPhone 5 lacks any such new feature but improves on the old ones with a larger screen.

App Adoption: Ever since the launch of iPhone 5 most of the big apps have optimized themselves for a larger display, however, there remain a few old ones that are seldom updated, which remain on the 3.5" display, the new iPhone 5 displays these in a letterbox format.

So that's all about the iPhone 5, its already out in US, Canada, Europe and parts of Asia, and it is breaking all records. It's possibly the best iPhone that they've made. It's a going to be available in India sometime near Diwali (October 26th is the rumored date) and is going to be available carrier-unlocked for about Rs.44,500 (About 6k more than what you'd be paying in US).

Meanwhile the iPhone 4S and iPhone 4 prices have been slashed. iPhone 4S is now available for Rs.38,500 and iPhone 4 is now available for Rs.26,500 both of them are good iPhone buys. At 26,500 for anyone looking to buy his first iOS Device, its worth the deal.



A NEW LIFE TO iPod

iPod Nano



Vidit Bhargava

The big surprise this week was the unexpected update of the iPod lineup. The successful 6th Generation iPod Nano which washed found a lucrative use as a wristwatch has now been abandoned for a completely redesigned Nano. The iPod Nano restores itself as the 'nano' that fits in the small pocket of your jeans, with this upgrade.

Nano has always been Apple's mold-able toy. One year, it served as a replacement to Mini. Next year, it was a smaller version to the classic iPod, it was fat then, it became Longer the next year. Come 2009, it disrupted a market ruled by flip video recorders. In 2010, the Nano was completely rethought, it was made into a smaller-touch screen variant of the shuffle. That year Nano gave rise to a completely new market. It went on to become of the most luxurious wristwatch at \$129. Apple acknowledged this last year and packed more clocks in it by shipping a software update. This year, well they've taken the great wristwatch of the shelves and "Renanoed" the Nano.

iPod Nano has become longer this year. With a 2.5 inch 16:9 Multi-Touch Screen, the iPod Now supports Video again. Add to the larger screen, it even has a home button now. The software has been updated too.

Also the over all hardware has a completely new design language, something we haven't seen from Apple for long now. It's clear from the update that the new iPod is made to attract the young, it has dropped the rounded rectangles in the UI, and gone for circular ones, a change which is obviously meant to make the iPod feel different and more fun to the young and those in early teens. The colors have also been chosen similarly making the overall look quite attractive and less business like and in Steve Jobs words, "You'll feel like licking them!" (He said this about the shuffle some years ago).

With the new range of colors there's a huge probability that you'll end up hating most of the colors but one. And the range is such, that there'll be, in all probability, be a color which you'll love this iPod in. I like the black one, my friend likes the mint-green color (Feels yuck! but in my friend's opinion it's the best they released in years).


Besides the usual, Music, Videos, Photos, Podcasts and Fitness Apps, the new iPod also includes an updated radio application which allows you to pause and rewind for 15 minutes. Apple also added Bluetooth support this year. Bluetooth

support lets you use the iPod with Car Stereo, speakers and headphones. (Thanks to Bluetooth, the iPod now has a hideous black/ white cap). A new volume rocker now also has play-pause capability.

The new Nano also brings back the small tiny, fits into the small pocket feel to the lineup. The iPod's going to be quite useful as a music player. Some might lament about it being a little timid or boring or it not being a wrist watch but if you rework from the scratch you'll find that the iPod Nano quite a suitable upgrade to a music player lineup. It's buzzing with energy, ready to revive a sleeping MP3 Player industry.

And One More thing, the iPod Nano comes with the new earPods. Now, I've heard a lot of





criticism of the old earbuds but I knowing not even an iota about good earbuds was quite satisfied with them. The new earPods, I haven't used them but it was told to us at the keynote, that the new earPods will deliver sounds straight into the ear. Thats that, they've redesigned the earphones putting

three years into Development and I am quite eager to use these completely new earPods with an entirely different design.

So that's all about the new iPod Nano. It's a new design. And the new Software has room for 3rd Party music applications too. The music industry is slowly shifting to online content streaming and Spotify, Pandora and Saavn (In India) are playing a major role in it. It'll be interesting to see how the iPod Nano finds a space for itself in this shifting world of music. And you never know, an ingenious use for the Nano may be waiting at the other end of things.



kindle paperwhite

Amazon announced a new flagship 'eReader' last month. Its called Kindle Paperwhite. The Paperwhite features a completely new 'white' screen. Here a built-in light evenly illuminates the screen to provide a better reading experience in almost all conditions. The Paperwhite also has a greater pixel density.

The New Kindle Paperwhite also has a new feature called “Time to Read” which uses your reading speed to let you know when you’ll finish the chapter.

The Paperwhite comes bundled with WiFi and There's a 3G Option too. Together with Amazon's brilliant book selection and ecosystem, the kindle paperwhite, starting at \$119. is a great choice for this holiday season. Although its availability in India is a bit of a question at the moment.



kindle

Emma's Kindle

9:28



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POINTS OF NOTE

Lumia 920

Points to be noted:

1. Comes with 4G LTE Support, and a dozen other bands.

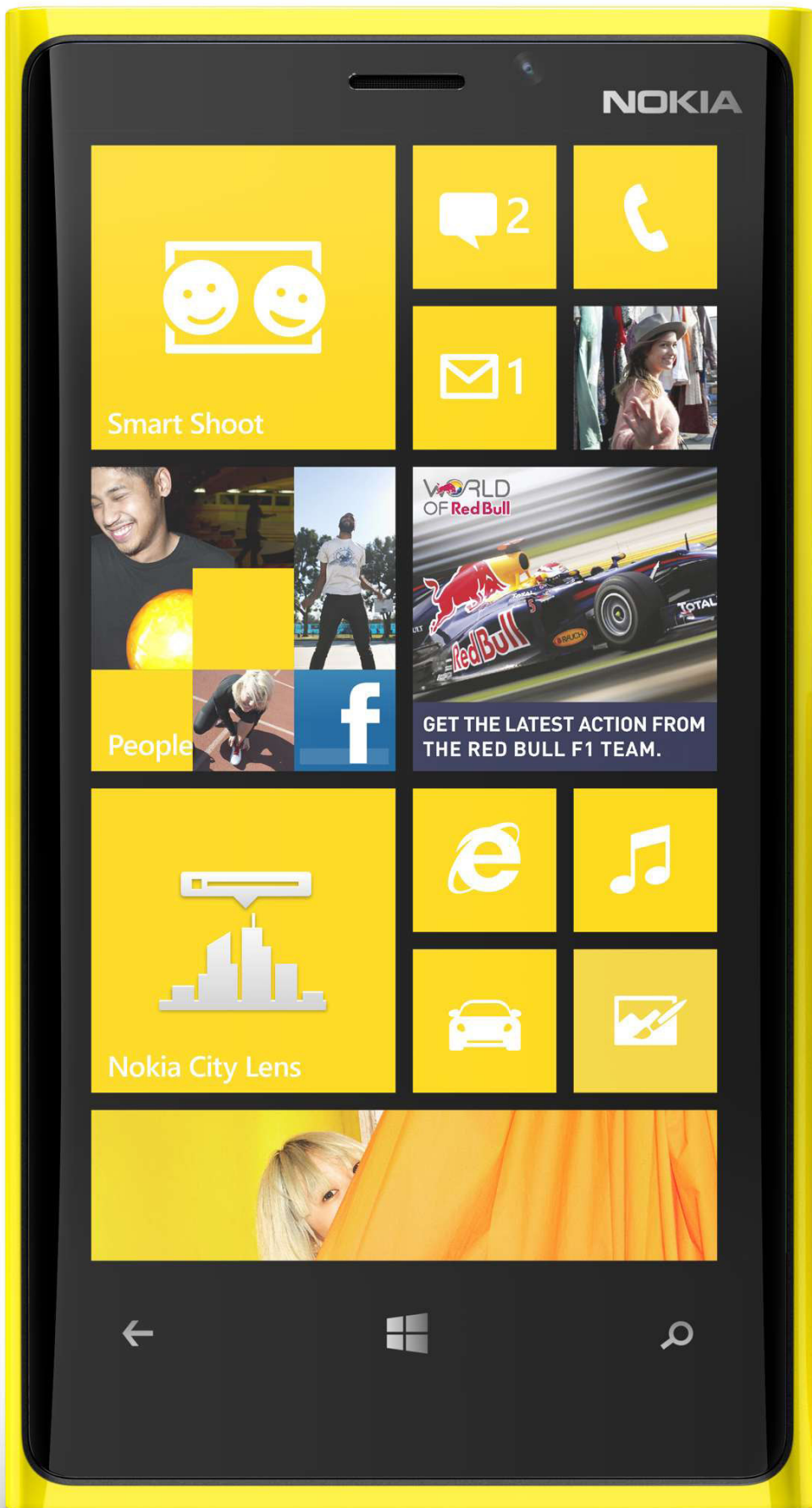
1. Windows Phone 8 is certainly an upgrade to Windows Phone 7.

2. Comes with a new Snapdragon Processor, which is faster than older Lumias.

3. A higher resolution display of 1280x768 and a 4.5" screen compliment the phone's streamlined design.

5. PureView Camera Technology by Nokia is capable taking some really stunning pictures

NOKIA | Carl Zeiss



POINTS OF NOTE HTC 8X



Points to be noted:

1. Support for LTE.

2. A Dual Core Qualcomm Processor.

3. 4.3" Inch Gorilla Glass Screen. With 720p resolution. Compliments the amazing build quality of 8X. The design is at its minimalistic best.

htc

4. 8MP Camera and 1080p Recordings are just about enough for point&shoot cameras.

5. Windows Phone 8 has a fresh feel.

6. NFC and Beats Audio area bonus.

"I'll Personally choose 8X over Nokia's Lumia 920."



- Vidit Bhargava



Model: PM23200 FCC ID: NMBPM23200 5VDC == 1A
C620e Use only power supplies listed in user manual.



GOOGLE'S 29TH OCT EVENT

NEXUS 4



Vidit Bhargava

With Nexus 4, Google brings an incremental change to its Nexus Range. But is it enough?

Build Quality, Design and Stock Android 4.2 aside, Google's Nexus 4 falls short of other android competition.

Google's Shift from Samsung to LG for the new nexus is a pleasant change. However we're still waiting for a completely "Google" Motorola Phone.

Google's come up with something called the "Photo Sphere Camera". Its a neat edition to the phone but phone makers should also realize that their new smartphones are phones first and then digital cameras or gaming consoles. This is just a catch-and-cope game , we aren't really seeing

any phone revolution as such. But a rather incremental nature of upgrades from one core to the other core. or one pixel to the other.

Nexus 4's a great Multi-media device. But a Great Phone? Its a good question to ponder on!

GOOGLE'S 29TH OCT EVENT

NEXUS 10



ASUS : Nexus 7, while LG: Nexus 4, Guess who's come up with the Nexus 10? Dumbstung Samsung! Laden with a 16:9 Display and a whooping 2560-by-1600 screen, the Nexus 10 also comes with a feature to swap users, which is perhaps its only USP, this is Nexus 7's big brother. Though its design is pretty poor.

The Nexus 10 is best held in a landscape mode. The Portrait Mode is pretty awkward. That combined with a poor tablet app selection and some pretty bad choices for a tablet design make this is an abominable choice.

Perhaps, Nexus 10's best part is its screen. But beyond that, it's just an awkward tablet with an awkwardly positioned camera and a very poor app selection, something no one will want to use. Also the design is ages away from the Nexus 4 or Nexus 7 Design.

MVDIT TECH QUIZ

Vidit Bhargava

Q1. Who once said "Adequacy is sufficient. All Else is Superfluous"?

Q2. Tobacco, firearms, used underwear, human parts, and lottery tickets are a few of the banned items at this place. The list includes over a hundred such items. Which place?

Q3. This term refers to the fact that the unhyphenated English word "cooperation" was often changed to "Cupertino" by older spell checkers. Which term am I referring to?

Q4. Name the maverik entrepreneur who sold broadcast.com to yahoo and currently owns 'The Dallas Mavericks'?

Q5. Gary Thuerk is known for being the World's First _____ ?

Q6. Advanced Step in Innovative Mobility, how do we know this machine?

Q7. X is an application development platform created by Qualcomm for mobile phones. Originally developed for CDMA handsets, it has been ported to other air interfaces including GSM/GPRS. It is a Software platform that can download and run programs for playing games, sending messages, sharing photos, etc.

Q8. This corporation is a giant in video compression technology. It is one of the largest conglomerates in the Europe. The greek meaning of its name means "Species". Name the corporation.

Q9. What do we commonly know "A Subscribed Mail that is filtered as Spam" ?

Q10. Big city, big enterprise, which telecom player extracted its name from it?

Answers to previous edition:

1. MoserBaer
2. Peter Sunde
3. Julian Assange
4. Mobile Camera
5. NFC
6. Napster
7. Trigate Transistor
8. Warner Bros.
9. Vimeo
10. Black Box

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