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ELECTRONIC ENTERTAINMENT EXPO

EDITORIAL

Just in time for the June Edition of the MVDIT TECH BOOK. We're pleased to complete the three cycles of the Tech book you all love!

This month the TECH BOOK talks about the new iPhone 4 and the All important E3. You'll get all the stuff from the new Nintendo 3DS to FIFA 11 and NFS HOT PURSUIT.

We're are pleased to tell you that 'another' writer has joined the TECH GROUP. Chaitanya has now got his own column!

I am also pleased to announce "tEN", which I'll be coming soon!

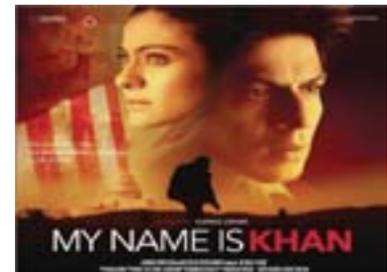
I won't write any more, Enjoy the Reading.
Vidit Bhargava
Editor MVDIT TECH BOOK



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COVER STORY

iPhone 4



Brace yourself There is much to talk about The much anticipated WWDC 2010 - Event finished a while ago. WWDC was specially kept for the iPhone. No Updates on any other devices. (The iPad an exception.). And since it was mainly on one topic iPhone & Apps, we are sure to have the new iPhone and it is called the iPhone 4.

1st up, the iPhone that gizmodo leaked was real. It was the actual thing! Looking at what new does the iPhone offer to us, lets go in the order they told it to us.

Design: Steve Jobs at the WWDC made a remark "Stop me, if you've seen this before!... believe me you ain't seen this! *followed by

heavy roars* ". By this he first addressed the Gizmodo leak and then told the audience that just getting the outer look they didn't spill all the beans. Apple Still managed to surprise us.

They've ripped apart the curves. Its flat and at the back there is no plastic, its glass (the same glass at the front and back). But doesn't that make it fragile? Well, here is the first blower! The glass they've made is 30 times stronger than normal plastic (atleast, they say so.) . It is of the same material as of helicopter windshields. Also, Apple has made a Stainless Steel alloy rim around the phone. The glass back is not only for design, It provides network signals to flow better. Making the 'Phone' even better.

The biggest thing here is the retina Display. When iPhone 3GS, Nexus One and

EVO 4G sat together, iPhone's screen was the duller. They've corrected that. They've introduced this cool Retina Display with a pixel density of 326 pixels per inch. And the pixels go quite small in size, only 78 micrometers across. So the pixelated text we see (only sometimes) is much better and much smoother. Like the iPad they've added the IPS panel. All this makes this display by far the best. (dunno how fast the rivals catch up but certainly not in the near future.).

And when Steve was showing how bright the web looked! The wifi went off... puff... Have you seen that before?

Other enhancements include Front Facing Camera. 5 megapixel back camera with LED flash. Extra mic for Noise Cancellation and yes, not to forget the Micro-Sim tray. For which if you want to use your existing sim. You'll need a mechanical SIM Cutter. And the iPhone is even more thinner than the previous ones. Making it the thinnest smart-phone ever.

A Gyroscope. Yes A gyroscope has also been added to the list of sensors. Making this term simpler, The Apple Website explains "More motion gestures and greater precision for an even better gaming experience."

Honestly speaking when the Gizmodo



leaked it, I wasn't impressed with the design. It looked raw, to say the least. But now, knowing the technical things in this phone. It looks better. It looks more technically right and technically sound.

2. Coming to the inside hardware: They've added the great A4 chip. This is bound to make it 'fly'. The battery life has also increased: 7 hours on 3G, 14 on 2G, 300 hours on Standby; 40 hours of music ... whew! what else do you want?

3. Software: If Froyo was 'tasty' this is bound to melt it! Packed with iOS 4.0 features, iPhone 4 also has in addition iMovie and 720p video recording. With all that, and the Gyro, and RD added. The iOS 4.0 on iPhone makes Froyo look ordinary.

4. For The Photographers: Nothing new about the 5 megapixel + LED Flash camera with 720p recording. But there is something new also "The backside Illumination Sensors." No grainy Pics! Not even in the Dark! That is what I would say 'cool' enough.

5. The one more thing: FaceTime: Just when our minds were questioning why is there a front facing camera with no video calling. Jobs, announced this. It's the same video calling thing from the front facing camera and what's new? You can go to the rear cam to show what others are doing. It's great but there is just one hiccup. It is currently Wi-Fi only and only for iPhone 4 - iPhone 4 surely, we need that corrected (Apple's working on that) or it's a waste of good technology.

Pricing? It remains the same for Contract users 'AT&T' \$199 for 16GB and \$299 for 32GB. That's great, but I've heard from my friends in the US the AT&T plan is exorbitantly priced and their service is poor. For that you can give \$499 (16GB) and \$599 (32GB) to get the iPhone 4 without contract. That's good.

How can I get it in India? iPhone 4 comes in September in India. Here Airtel and Vodafone will sell the device, by then 3G 'will' be available with these carriers and probably they'll correct the video calling thing and history reveals it's gonna be above 30K (in Rs.).



If you are one of the impatient ones and have a friend in US. you can get this contract free version and use it in India. (\$499 is roughly 23.5-25K).

First Impression: The iPhone has a reputation of providing the 'best touch screen display' and with all these new features things look brighter. Lately, phones probably better than the iPhone 3GS were introduced (Nexus One, EVO 4G, blah blah). iPhone 4 is a solid answer to that and once launched these phones are ready to be knocked out in a single kick!

Small PCs

The New MAC Mini



Vidit Bhargava

Apple just yesterday launched the new MAC MINI. They've updated the whole thing quite a lot. For they've updated the design to a uni-body Aluminium enclosure. The specs have been upgraded and 'there is' an option to manually upgrade the RAM.

So what is this 'MAC mini'? Apple itself doesn't provide computers like we have, either they have an All in one iMac range or they have the MAC Pro which is for the server people. Mac Mini is a mini CPU of sorts. Of Course its branded so you cannot customize much. This is how a MAC Mini looks:

Lets get to some technical specifications.

2.4GHz Intel Core 2 Duo 2GB memory 320GB hard drive 8x double-layer SuperDrive
NVIDIA GeForce 320M graphics Mac OS X Snow Leopard \$699 (nearly 35K in India)

The specifications are good. The only concerns are the Processors and the 2GB RAM. The Core 2 Duo Processor is good but when you can get the Core i3, i5 or i7 why not add to the mini? The 2GB RAM is also just par. A 3 or 4GB RAM would have been excellent. Also a Wi-Fi and Bluetooth are there and that adds to the + points.

The new Addition to the MAC mini is the Rotatable Lid at the bottom, it opens up to reveal the CPU, and then we can change 'only' the RAM. So if you're unhappy with the RAM config just get hold of a Mac ram and replace it. (Supports upto 8GB only). Other things like the Graphics card and the fan are only for viewing, you can't change them.

At the back of the MAC mini you now get a black panel, which includes: Power On and of switch, A power plug (no bulky power supplies this time!), 1 Ethernet and Firewire Port, 4 USB 2.0 Ports, SD Card Slot, Headphone and Mic Jacks, A mini -display Port and an HDMI port.

So everything is fine when it comes to the back panel.

Overall, the Device Technically has improved a Ton. However, these are all on the paper, I dont have the actual device.



ADITYA'S COLUMN

All the Software You Need

Aditya Salapaka

We've all faced the problem of a crashed computer. (Thank you, Windoze). And almost always, once in half-a-year your Windows machine will crash. And mess stuff up to such an extent, that you have to reinstall Windows.

After you've done that, you reinstall all drivers necessary, and you proceed to download all the other software you are used to. At bare minimum, you'll need a browser (Firefox), a media player (VLC), media codecs (K-Lite), software bloatware for your iPod (iTunes), and so on. It's highly impractical to download all setup files one-by-one (but that is what you do anyway).

Here comes Ninite Easy PC Setup. This brilliant initiative by Patrick Swieskowski and Sascha Kuzins ensures that you don't need to do all that manual download and install stuff. Just download a custom installer, and leave your PC overnight. There are ~75 applications to choose from, and it's really, really simple. Below is a screengrab of the website. Notice the clutter-free design and clear cut objective – select, download and enjoy. As you can see, nearly all popular apps exist. Four browsers, twelve media players, and even important stuff such as .NET Framework, Java and Flash.

Applications I Download Using Ninite

The best part is that the entire process is unattended. Only one window is open – the Ninite Installer Window. You won't even have to restart your computer. Be warned though. Ninite will install everything in the default path Windows installation path.

Amazingly, each installer you make gets a unique link, which you can share with others, or even keep with you for downloading the online installer for all these apps again. Of course, you can always store the installer...

There's also a Pro service Ninite provides, known as Ninite Pro (how innovative!). It's a paid service and costs \$20 (Rs 950) per month. That is, in my opinion, quite steep. I still recommend it for use if you are an administrator in a school or office. Ninite Pro offers an offline installer, which works just like the one in the free edition – unattended usage. You can download a set of software on the offline installer, copy it to each computer's hard disk, and sleep while they all install away.

PLAYLIST

WHAT WE ARE LISTENING!

1. Lemon Tree - Fools Garden
2. Behene De - Raavan
3. Saathiya
4. Beera - Raavan
5. Ranjha Ranjha - Raavan
6. Jab Mila Tu - I Hate Luv Stories
7. Khili Re - Raavan
8. Bin Tere - I Hate Luv Stories
9. Thok De Killi
10. I Hate Luv Stories
11. Every Body - Best of Backstreet Boys
12. I Want it That Way - Best of Backstreet Boys
13. Jab Mila Tu - I Hate Luv Stories
14. Show Me The Meaning of Being Lonely - Backstreet Boys
15. I'll Never Break Your Heart - Best of Backstreet Boys

Difference in Core 2 Duo and Dual Core

Mudit Bhargava

After hours of research on the Internet, surfing through various websites and finding nothing. Interpreting data from Intel's official website, here I have the most comprehensive discussion online on the difference between two most confused processors.

The Intel Core 2 Duo and Intel Dual Core processors. Here's a collection of the all time popular answers I have heard:

"Core 2 Duo, naya hai ji. Advance to hona hi hai". – The vendor when I was buying a PC.

"Dual Core? Just a different name for Core 2 Processor Series."- Some tech forums.

"Dual Core. Core 2 Duo. Aren't they supposed to be the same?" – The most common answer.

But back to business. Jumping on directly to the correct answer of our question.

Dual Core processors are 2 processors working in series at the same time, whereas Core 2 Duo are 2 processors working in parallel and sharing their load.

Might remind some of us the combinations of electrical resistance as an analogous, but since that's not exactly the situation, I have better explanations for this. Some non-technical analogy. Consider that you and me have been given a task to complete. Take that task to be reading and signing a document. Assume that each page has to be attested by either of us only. Now there are two ways to do that. The first, I sign my pages, pass on the document to you and you follow suite. The other way, I give you your set of pages, take out mine, and we simultaneously sign our different set of the pages. Obviously the second approach is much faster than the first one. Our second approach is what Core2Duo does, and our first what Dual Core does. Note that work is shared in both cases. Our load is shared, I don't do your task and neither you do mine. This explains the difference between the two processors. If you've read till here I caution do not skip the next paragraphs. Some disclaimers follow.

So, are Dual Core processors a waste? Okay, please allow me to take another analogy.



The last one in this post. This time I'll explain it mathematically. Take two functions. One 'n' and other 'n^2' (n square). For values of n between 0 and 1, n is greater than n^2. And for values of n > 1 the difference starts to get bigger as we move towards right on the number line, the values of 'n^2' is bigger than 'n'. Same is the case here. Which performs better or questions like "which is better?", "which suites my needs?" are all answered through this analysis. For tasks like creating some word documents, surfing the internet, downloading and uploading pictures through a Digital Camera, which are not that complex tasks, Dual Core is not a bad choice. For gaming, high-end Web Development, photo and video editing Core 2 Duo would be better any day.

Let's go a more technical now. More precise information on how Core 2 Duo is actually more advanced than the other processors? See, I say advanced rather than saying better. That's important to be right in technical terms. Below are points of our interest:

1. The cache size is increased by more than 50%.
2. Energy Efficiency: Core 2 Duo processors are not only high on performance but energy-efficient too. The processors operate at lower frequencies that require less power to run. (That'll take me another round of research on the Internet to explain you. Some time later may be).
3. Better Acoustics: I quote it directly from the Intel Product Brief for this.



Intel® Core™2 Duo processors are equipped with a Digital Thermal Sensor (DTS) that enables efficient processor and platform thermal control. Thermal sensors located within the processor measure the maximum temperature on the die at any given time. Intel® Quiet System Technology, included in the Intel® Express Chipset families¹, uses the DTS to regulate the system and processor fan speeds. The acoustic benefit of temperature monitoring is that system fans spin only as fast as needed to cool the system, and slower spinning fans generate less noise.

Even if you've just scrolled down to the last line of the post. No problems, check out this video. Anyways I recommend DO CHECK this video (link below), it really well explains the difference between all kinds of Intel processors.

Before you navigate away from this page, don't forget to leave your feedback!

Chaitanya's Column

The Apple Thing...

Well, much before 2006 or late 2005 I thought apple to be only a fruit, parents and books highly recommended . But it was only after a cousin of mine coming back from USA got me an iPod Shuffle (2G) as a gift that i came to know about this extraordinary company, Apple Inc.

iPOD shuffle with its dock

To be honest much before launch of iPod, not many people knew about the company. The iPod was its breakthrough product brought back by Steve Jobs when he came back after being sacked!

The iPod is a portable music player launched by Apple Inc. in the year 2001 and since then the player has been evolving continuously and has increased its users manifold.

When I first used Shuffle for the first time I was really astounded by the incredible performance, sound quality and the sleek stylish looks of it. It was great, much better than other MP3 players available in the market like those under mega banner of Sony, Philips, Creative etc... Shuffle was just one model of iPod family. Apart from it were iPod Nano and Classic and now Touch.

shuffle clip

I have personally owned only Shuffle and Touch so I must share my experience with them. Talking about Shuffle first, this powerful device works on flash memory, was high on performance, easy to use and carrying was never an issue with those clips attached to its body! You could simply clip it on your t-shirt or jeans or other apparels and carry it around easily listening to the music you like. The only problem faced by me, using Shuffle was lack of display, that made troubleshooting pretty difficult.

iPod Touch 3G

iPod Touch 3G came under my ownership last year only (again as a present) and since then it has captivated with its enthralling



performance and mind blowing touch screen. I must tell you I've used many touch screen devices, but Apple stands apart! It is enabled with an accelerometer, multi-touch, wireless and bluetooth and a sleek incredible design. Touch can be controlled with voice-over commands like "play artist ...", "next", "stop" etc. and can store voice memos. Also you can store photos, use "Safari" web browser, send and view emails, google maps, you tube and much more. Above all it gives you the sensational experience of listening music like never before! But what makes this great iPod an "Awesome" iPod is the apps: You can practically have everything on your iPod Touch from movies to novels. Using the App Store you can download cool free games and other amazing apps, which is the option you can't find in any other music player.

App Store

So check out this incredible model for:

"Awesome" Music Experience.

"Awesome" Touch Screen and Accelerometer.

"Awesome" Intelligent interface.

"Awesome" design and built.

Really cool apps and games.

Good wireless.



Games at E3 Need For Speed Hot Pursuit



Vidit Bhargava

Do you remember the old low Graphixed game by EA that was released many years back. Atleast I remember playing the NFS Hot Pursuit some 5-6 years back. It was fun...even with low graphic quality. EA has decided to re-launch the game this time. And their promising some really cool stuff! So lets go straight to the features.

Career – For the first time in Need for Speed history, players will experience the gripping and heart-racing action of both cops and racers. Hot Pursuit seamlessly links a tremendously deep and fully-defined single player career with a groundbreaking multiplayer experience across all race modes. In the end, whether playing online with friends, taking on friends challenges or the single player career, players will earn bounty that levels them up and unlocks new cars, weapons and equipment.

Need For Speed Autolog – In Need for Speed Hot Pursuit, your friends drive your gameplay experience. Need for Speed Autolog is a revolutionary system that connects friends directly to each other's games, enabling them to compare and share all their experiences, pictures and challenges. Need for Speed Autolog instinctively delivers challenges based on what your friends have been doing, creating a hugely dynamic, socially competitive experience.

Weapons and Equipment – Enhance the intensity of the pursuit using multiple weapons as the heat level increases during a pursuit. Whether taking down suspects with a variety of cop weapons or using evasion equipment as a racer to outsmart the cops, players will always have a method for gaining an edge over their opponent.

Cars – In Hot Pursuit, the cars go from hot to hotter. Experience the thrill of driving the world's most desirable high performance cars at incredible speeds. Feel the power of busting suspects in supercharged cop interceptors like the Lamborghini Reventon or outsmarting the law as a racer in high performance supercars like the Pagani Zonda Cinque.

Seacrest County – Explore a world as diverse as the California coastline with desert, forest, seaside and mountainous regions. The open world of Seacrest County is designed to create the most intense pursuit experiences ever found in a racing game.

YOU can now be a cop also! This is something at least I've been waiting for, for a long time. Other features include the Autolog (which is explained better in the above lines). The Weapons and equipments is something very good. At least it looked good when we first saw it in their Teaser. This thing changes the whole Cop and racer chase experience, now you are not only on the run but you have the power too!

Talking of the graphics, the game has the best EA Graphics ever!

Overall, I am eagerly waiting for the 19th of November when this game is out and I can buy it. It's on all the major platforms XBOX 360, PS3, Wii and PC (iPhone app is bound to come but there is no announcement yet and PSP was left out this time). However we're quite uncertain of the Microsoft Kinect and Play Station Move functionality.



Games at E3 FIFA 11

Vidit Bhargava

Features from EA Sports are as follows:

Responding to Fan Feedback

Improved Passing Physics - "Ping pong passing" has been eliminated. Passing is now dependent on realistic conditions that exist in each specific situation, creating unpredictable results. Goalkeeper AI and Chip Shots will be addressed as well, check back soon for more information on these areas.

Flare Theatre - Save highlights from any match – including online – right to your hard drive to view, replay or upload to Footballworld.com at any time.

New Gameplay Feature

Personality +

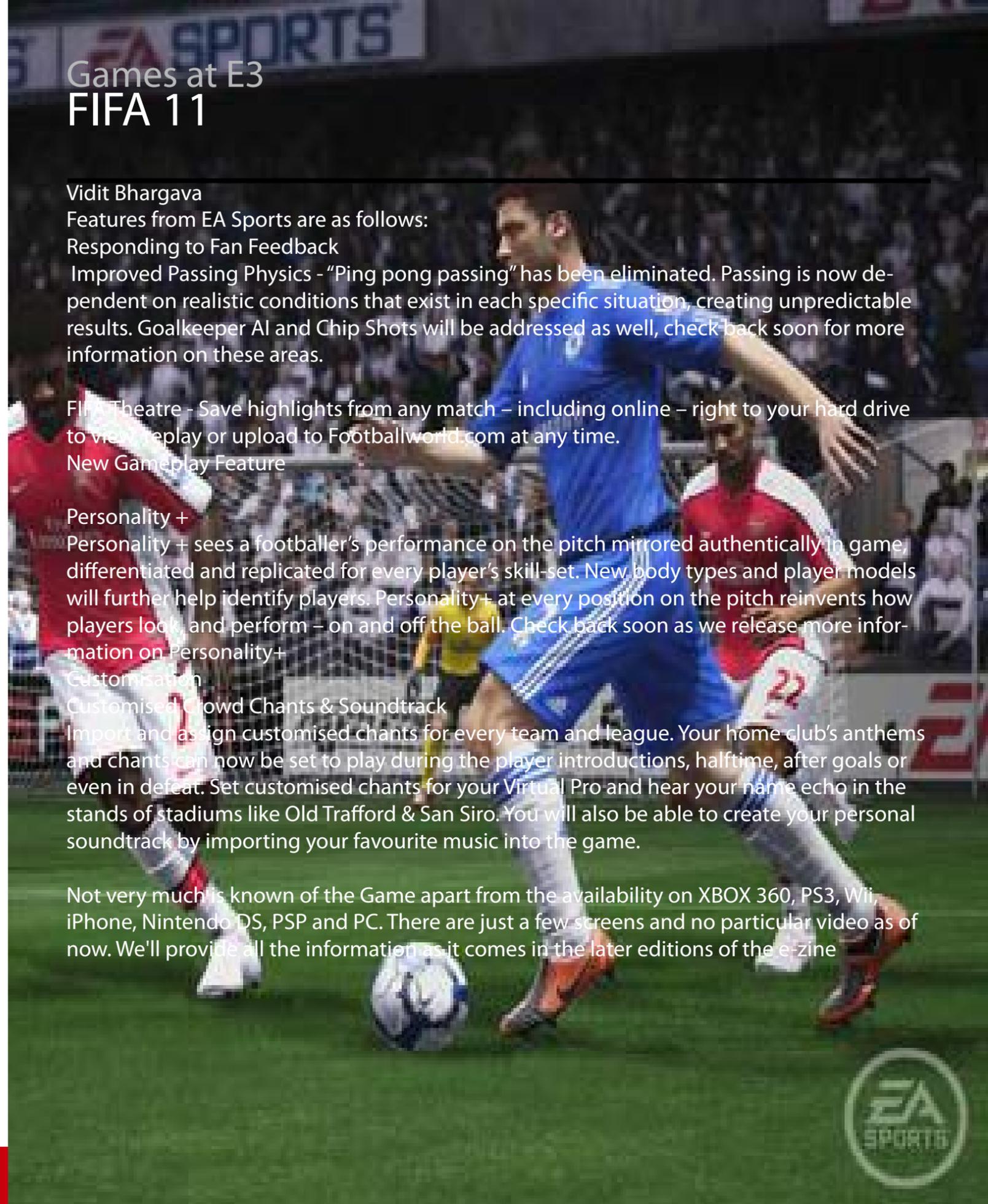
Personality + sees a footballer's performance on the pitch mirrored authentically in game, differentiated and replicated for every player's skill-set. New body types and player models will further help identify players. Personality+ at every position on the pitch reinvents how players look, and perform – on and off the ball. Check back soon as we release more information on Personality+

Customisation

Customised Crowd Chants & Soundtrack

Import and assign customised chants for every team and league. Your home club's anthems and chants can now be set to play during the player introductions, halftime, after goals or even in defeat. Set customised chants for your Virtual Pro and hear your name echo in the stands of stadiums like Old Trafford & San Siro. You will also be able to create your personal soundtrack by importing your favourite music into the game.

Not very much is known of the Game apart from the availability on XBOX 360, PS3, Wii, iPhone, Nintendo DS, PSP and PC. There are just a few screens and no particular video as of now. We'll provide all the information as it comes in the later editions of the e-zine



Consoles at E3 Nintendo 3DS



Vidit Bhargava

While the 3D revolution hits the entire TV industries. Nintendo has launched its own "3D" console. The Nintendo 3DS packs a '3D Camera'. Here's all you wanted to know about the 3DS:

The Hardware: The upper screen is 3.5-inches. There is a slider on the side that lets you tweak the 3D effect, seemingly enabling you to adjust its depth based on your distance from the screen -- or turn it off entirely. As with the current DS, the bottom is a touchscreen, and is not 3D.

There is a gyro, motion sensor, it's compatible with DSi games, and has two cameras enabling 3D photos. Nintendo is also talking up partnerships including Disney, games that are said to be playable today, at the show, with one of the highlights being a new Kid Icarus game which looks quite action-packed to say the least -- and has better graphics than most of the Wii titles Nintendo has shown thus far. Nintendo has mentioned the 3DS will have the "biggest launch support ever" from third party devs, and a 3D Nintendogs should be a huge seller -- if only because it has cats too. Other games include Madden, Ninja Gaiden, Resident Evil, a Batman title, Splinter Cell, and, finally, a Metal Gear Solid entry.

Nintendo is also talking about how the system will seek out WiFi hotspots or other 3DS systems "without you knowing," which sounds a bit ominous, to be honest. Systems can communicate regardless of which games are being played. It can even pull in new DLC directly from other consoles, all without a monthly fee.

WIN PRIZES

MVDIT QUIZ - Win Exciting Prizes

Q1. What is the pixel density of the 'retina Display'?

Q2. Who is the director of Toy Story 3?

Q3. What is the name of the Project Natal.

Q4. How many cores does the Apple A4 chip have?

Q5. What OS does Nokia N900 include?



The one who answers all the questions wins the quiz and is eligible for an exciting prize (We are giving away Jon Favreau's Iron Man in HD Print). This quiz is pretty tough though, but you still stand a chance.

Acknowledgements: Wall Street Journal, Codemasters, Electronic Arts, Google, Wikipedia