

# eNEWS-3

CryptX Club

Jayshree Periwal High School



# CryptX



## This issue covers -

[The Future of Ubisoft](#)

[Reliance AGM 2020](#)

[Asus brings its new beast](#)

[Game Development as a career](#)

[The Coolest Billionaire](#)

[Bitcoin Heist](#)

[Introduction to Superposition](#)

[OnePlus hits the budget market](#)

[The Pandemic Life](#)

[Iranian Hackers caught](#)



[cryptx.tech](https://cryptx.tech)



[cryptx.tech](https://cryptx.tech)

# The Future Of Ubisoft

Naman Keswani

Ubisoft Entertainment is a French video game company headquartered in Montreuil with several development studios across the world. It publishes games for several video game franchises, including Rayman, Prince of Persia, Assassin's Creed, Far Cry, Watch Dogs and Tom Clancy.

Ubisoft recently did an online presentation (Ubisoft Forward) of its upcoming games which included Assassin's Creed: Valhalla, Hyper Scape and Watch Dogs: Legion. In addition to gain viewers they also gave away Watch Dogs 2 for free to those who had registered to watch the stream. Talking about the Watch Dogs series, the first part was insanely good despite the poor graphics. However, its sequel was a complete failure because the story was misleading, confusing and slow. This is where the downfall of Ubisoft started. Many fans of Assassin's Creed series were upset because they saw that the lore was shifting from an Assassin to a Viking in the Assassin's Creed: Valhalla. It has stunning graphics and stealthy missions which are enjoyed by many players all across the world. Tom Clancy has been one of the best shooter games ever. But if we talk about games like Tom Clancy's Ghost Recon, the fans were disappointed. Compared to games like Tom Clancy's Division 2 and Rainbow Six Siege, Ghost Recon was a really bad game that helped in spoiling the reputation of Ubisoft.

If we talk about the new games, Hyper Scape was a free to play Battle Royale game that did not live up to the hype. The movement was weird, the damage of the guns was uncertain, the abilities were not very useful and the graphics were good but many players were reported of having seizures because of the fast-paced gameplay. Now, Ubisoft's only hope of coming back into the race of leading game publishing companies is Watch Dogs: Legion. The game is anticipated to be one of the best story games. Ubisoft is working very hard on this project and are hoping that it does not go waste like Watch Dogs 2. If Watch Dogs: Legion's moto of "Play as Anyone" fails, there will be no more Watch Dogs in the future. Other publishing companies like Rockstar games and CD project are living up to the expectations of fans which is not the same for Ubisoft anymore.



## Reliance AGM 2020

Subham Jalan

Reliance Industries held its 43rd Annual General Meeting last week and made some major announcements and developments on different products.

**Google-Jio Tie-up** - Google will invest ₹33,737 crore for a 7.7% stake in Jio Platforms. The companies are planning to build an entry-level smartphone for Indian users. Google CEO Sundar Pichai also shared a message on the company's partnership with Jio.

**JioMart** - Jio is currently piloting the beta version of JioMart Grocery in 200 cities. They will be giving customers a complimentary COVID kit of a mask and a hand sanitizer on their first order. It will expand to electronics, pharmaceutical, and fashion in the near future.

**Facebook-Jio Tie-up** - Facebook invested ₹43,573.63 crore to acquire a 9.99% stake in Jio Platforms. Jio will be working with Facebook's WhatsApp for its e-commerce platform JioMart.

**Jio Glass** - The announced product offers Mixed Reality content, and over 25 applications. Jio Glass can be used for 3D meetings and video calls.

**Jio TV+** - It will have content from all major OTT platforms. It will also work with voice search that works across genres and different services.

**Jio 5G** - Ambani said that they have created 5G from scratch and will begin testing as soon as possible.

**JioMeet** - JioMeet, India's first and only cloud-based video conferencing platform has been downloaded by over 5 million users and counting.

## Asus brings its new beast

NDTV India

The Asus ROG Phone 3 is perhaps the phone that comes closest to a gaming PC yet – there are tons of accessories for different gaming styles and everything is under your control. It has been launched as the company's latest gaming smartphone. The new model has almost the same dimensions of last year's ROG Phone 2, yet it comes with various hardware-level upgrades. The phone comes with Qualcomm Snapdragon 865+ SoC and includes a GameCool 3 heat dissipating system with a redesigned copper 3D vapor chamber and a larger graphite film over what's available on the existing model. The gaming phone also features AirTrigger 3 ultrasonic buttons and includes dual, front-firing speakers. The ROG Phone 3 comes with a clip-on AeroActive Cooler 3 accessory that has a kickstand and built-in fan to reduce the surface temperature by up to 4-degree Celsius.

The dual-SIM Asus ROG Phone 3 runs on Android 10 with ROG UI on top and features a 6.59-inch full-HD+ AMOLED display with 19.5:9 aspect ratio, 144Hz refresh rate, and HDR10+ support. Under the hood, the phone has the octa-core Qualcomm Snapdragon 865+ SoC, along with Adreno 650 GPU and up to 12GB LPDDR5 RAM. It has up to 512GB of UFS 3.1 storage and supports 5G. For photos and videos, it has a triple rear camera setup that includes a 64-megapixel Sony IMX686 primary sensor that has an f/1.8 lens. The camera setup also has a 13-megapixel secondary sensor with a 125-degree ultra-wide-angle lens and a 5-megapixel tertiary sensor with an f/2.0 macro lens. It features a 24-megapixel selfie camera sensor at the front, along with an f/2.0 lens. It can record videos up to 4K. In terms of power, this beast has a 6,000mAh battery that supports 30W fast charging support. The battery capacity is notably identical to that of the ROG Phone 2. It has been launched in India at a starting price of ₹49,999 for the base variant (8GB + 128GB).

### CIY - Code it yourself

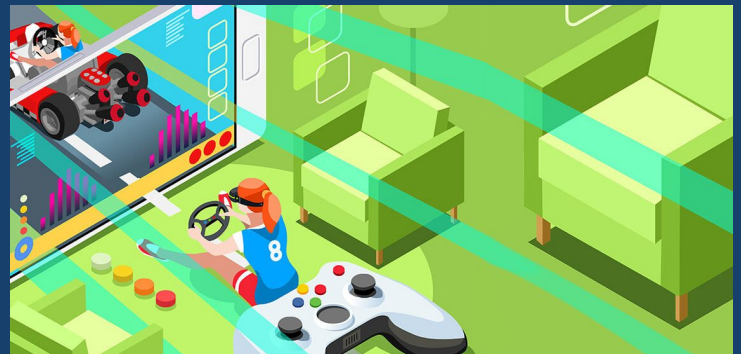
- Write a program that calculates the day of the week for any particular date in the past or future given that the date is valid and between 1900 and 2100.
- Check if the given numbers form a Pythagoras triplet ( $a^2 + b^2 = c^2$ ).
- Check if a given number is prime or composite.



## Game Development as a career

Jay Sharma

The Gaming Sector is filled with opportunities one can grasp and pursue as a career, and one of those opportunities is Game Development. On an average, a game developer earns about (according to [glassdoor.co.in](https://www.glassdoor.co.in)) 218k to 893k INR annually! And the sector open-heartedly recruits newbies to the stream. No matter what your age is, if you have the skill, you have the job. For those who wish to pursue such a dream-like career, mind that you will need to be a great scripter, be familiar with the Game Developing software, have a degree (often optional), and years of experience under your belt. The journey is hard with many potholes, but the end result is much sweeter than anything you can imagine of. For those who want some quick suggestions concerning some software, go for Roblox Studio, Unity or Unreal Engine 5. If you feel inspired, get cracking right now for there is no time to waste!





# The Coolest Billionaire

Milind Sharma

Elon Reeve Musk is an engineer, industrial designer, technology entrepreneur and philanthropist. He is currently based in the US, but he originally hails from South Africa. Musk was born on June 28, 1971 in Pretoria. He is mainly known for his work on companies such as Tesla, SpaceX and Neuralink. In December 2016, he was ranked 21st on the Forbes list of The World's Most Powerful People, and was ranked joint-first on the Forbes list of the Most Innovative Leaders of 2019. His current net-worth is around US\$74 Billion making him the 5th richest person in the world.

In 1992, he left Canada to study economics and physics at the University of Pennsylvania; he graduated in 1997 with a Bachelor of Arts degree in economics from Wharton and a Bachelor of Science degree in physics from the College of Arts and Sciences. In 1995, Musk was accepted to a PhD program in energy physics/materials science at Stanford University in California. Eager to pursue opportunities in the Internet, he decided to launch his first company, Zip2 Corporation, which was later acquired by Compaq for US\$307 million in cash in February 1999. He later created a money transfer service called PayPal and also sold it to eBay for US\$1.5 billion in stock, of which Musk received US\$165 million.

His latest endeavors include Tesla which is one of the world's largest electric cars company and is quickly climbing up the ladder to become the biggest car manufacturer in the world. SpaceX, the aerospace giant Musk founded in May 2002 is also making headlines in the news as it was the first aerospace agency to send astronauts to the ISS from the US soil in more than 5 years since the Spaceshuttle program ended. Elon musk is widely regarded as the coolest billionaire and the real Iron Man because of his crazy futuristic ambitions which might change humanity, one of them being colonizing Mars. Musk is also pretty active in pop/social media culture, appearing in PewDiePie's "Meme Review" and cameos in show such as "The Big Bang Theory" and movies like "Iron Man 2".



"When something is important enough, you do it even if the odds are not in your favor."

"When Henry Ford made cheap, reliable cars, people said, 'Nah, what's wrong with a horse?' That was a huge bet he made, and it worked."

"It's OK to have your eggs in one basket as long as you control what happens to that basket."

"If you get up in the morning and think the future is going to be better, it is a bright day. Otherwise, it's not."



## Bitcoin Heist

Jasraj Johal

Twitter is investigating after hackers targeted several high-profile US figures in a "coordinated social engineering attack". Fake tweets were posted on the accounts of Amazon chief Jeff Bezos, Bill Gates and Elon Musk, offering to send \$2,000 for every \$1,000 sent to a Bitcoin address. Chief executive Jack Dorsey tweeted: "Tough day for us at Twitter. We all feel terrible this happened." He added that their staff is "working hard to make this right". Also, among those affected were former US president Barack Obama and Democratic presidential candidate Joe Biden. Businessman Mike Bloomberg, reality TV star Kim Kardashian, rapper Kanye West, and the corporate accounts for Uber and Apple were also reported to have been hit by the scam. Blockchain records, which store data about monetary transactions, showed that suspected scammers had received more than \$100,000 worth of cryptocurrency. Just before 11pm UK time, Twitter confirmed it was investigating a "security incident". Around 4 hours later, the social media platform said: "We detected what we believe to be a coordinated social engineering attack by people who successfully targeted some of our employees with access to internal systems and tools. We know they used this access to take control of many highly-visible (including verified) accounts and tweet on their behalf. We're looking into what other malicious activity they may have conducted or information they may have accessed and will share more here as we have it. Once we became aware of the incident, we immediately locked down the affected accounts and removed tweets posted by the attackers." Twitter said it had also limited functionality for a "much larger group of accounts, like all verified accounts (even those with no evidence of being compromised)". It is likely hackers may have gained access through Twitter's system, rather than through individual accounts.

## Introduction to Superposition

Jeev Jatin Singh

The infamous Schrödinger's cat. The thought experiment of superposition proposed by Erwin Schrödinger. A cat is placed in a steel box along with a bomb that has a 50% chance of blowing up at the end of a timer. So, until the box is opened, we don't know if the cat is alive or dead. Well, you might think the cat would be either dead OR alive. Quantum Mechanics says that the cat then is in a superposition of both alive AND dead at the same time! So, by looking in the box, the cat "collapses" to either dead or alive, meaning, on looking, we find that it has one definite state, either dead or alive. You could say our curiosity may or may not have killed the cat. This doesn't happen with macroscopic objects such as cats, but it does with subatomic particles.

Here's another analogy that requires some balls made of steel. Imagine a source of balls, that releases steel balls of only two colors: blue or red, with a 50% probability of each. Now let's say the balls enter a box that has two openings at the end. We'll cover the box with a black cloth such that we have no way of knowing what the color of the ball will be. Now, when the balls are in the box, are they blue or red? The answer is they are both blue and red at the same time.

When applied to atoms, superposition takes the form of an atom (under special conditions) being in two places at once or going through two paths at the same time. Superposition seems to be a very absurd deviation from our classical thinking. After all, we don't normally assume a particle being in two places at once. Yet it has been proved in various experiments. Superposition has found its way to information science as well, being one of the key phenomena utilized by quantum computers. Our classical computers understand instructions in the binary language i.e. in 0s and 1s. A binary bit can be either 0 or 1. A quantum bit, also called a qubit, can be in a superposition of 0 and 1, meaning it can be both 0 and 1 simultaneously! Similarly, 2 classical bits can be in one of 4 combinations i.e. 01, 11, 10 or 00. However, a qubit can be all these combinations at once. Hence if there are  $n$  qubits, then the no. of paths it can travel at once is  $2^n$ ! It is this property of qubits to be in multiple states at the same time that gives them an edge over classical computers.

It is important to note that quantum effects like superposition are seen prominently in microscopic objects like atoms, not macroscopic objects.

Luckily and Unluckily for the Cat.

## OnePlus hits the budget market

Milind Sharma

In an era where phone prices are skyrocketing to the point that some phones cost more than a minivan, OnePlus is taking a step back and going back to its roots and releasing a budget flagship with not so many compromises. Their new phone named “Nord” is a solid mid-ranger as it cuts down costs in such ways that it minimally affects the performance and the aesthetics of the phone. It packs a Snapdragon 765G, 4115mAh battery, a 5G modem, 90hz AMOLED display and Warp Charge 30T (30W fast charging) capabilities. It has a quad rear camera array with a 48 MP primary sensor “stolen” from the OnePlus 8, an 8MP 119° ultrawide, 2MP macro lens and a 5MP Depth Camera, completed with optical image stabilization to eliminate blur and shakiness. Nord is also the first OnePlus phone to come with a dual front facing camera configuration, this time they have implemented a hole-punch design located at the top left corner of the phone having a 32MP primary sensor and an 8MP 105° ultrawide. Its Warp Charging capabilities are so good that its battery level can go from 0 to 70% in just 30 minutes. In India, the base variant (6GB + 64GB) starts at ₹24,999. The phone surely gives back to the community. OnePlus was known for making budget flagships and surely gives back to the community through this phone.

## Weekly dose of news

Subham Jalan

- IBM's revenue from the cloud business rose 30 percent to \$6.3 billion (roughly Rs. 47,000 crores) in Q2 2020.
- AMD has announced its Renoir-based Ryzen 4000G desktop APUs for OEMs.
- UAE has successfully launched its first ever spacecraft, called Amal, bound for Mars. Amal is set to reach Mars in February 2021.
- Zoom has opened a new technology center in Bengaluru, promising to hire key talent from India.
- Deleted contacts can now be recovered on the Google Contacts site.
- Netflix seems to be working on a new TV interface that aims to make better use of the real estate on the big screen.
- Facebook Messenger has added a new Zoom-like screen sharing feature.
- India's richest woman, Roshni Nadar Malhotra, is the new chief of HCL Tech.
- Mukesh Ambani becomes world's 5<sup>th</sup> richest man.

## The Pandemic Life

Beebom

The coronavirus pandemic has undoubtedly led most of us to work from home. While the whole remote work process has mixed opinions from the crowd, a new research from Lenovo has attempted to analyze certain patterns to understand the work preferences of Indians. According to their findings, almost 84 percent of Indians think they could be better at their job if they had better technology skills. This signifies the skill gap prevalent in the country, which usually roots back to traditional teaching methodologies and outdated curriculum. On a global scale, almost 63 percent of the workforce felt more productive working from home when compared to office. Moreover, 52 percent of them are willing to continue working from home even after social distancing restrictions get lifted.





## Crossword Puzzle

### Down

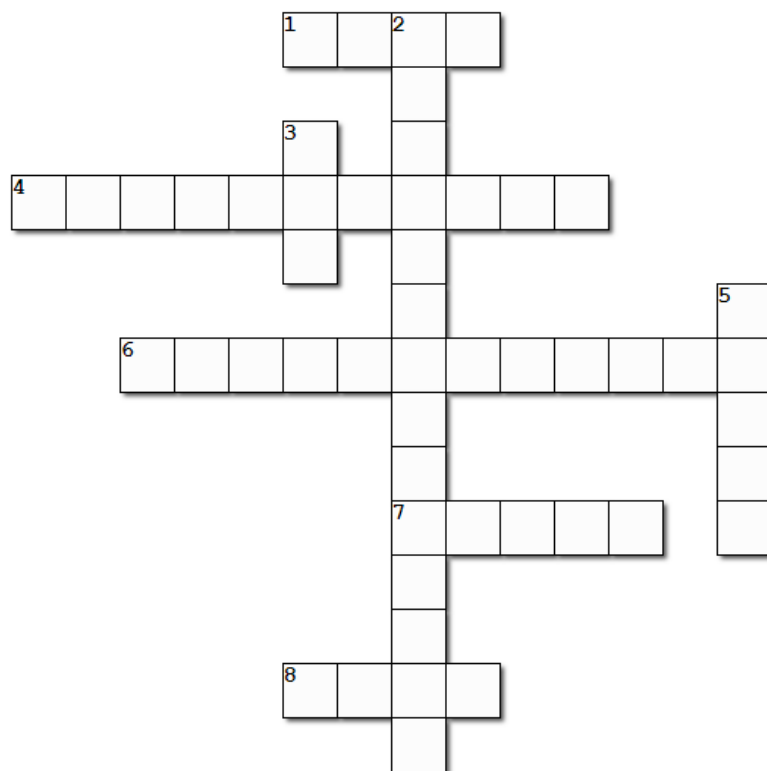
2. An emulator is an example of what?
3. WiMAX is considered a competitor to which wireless technology?
5. Which Adobe technology is also the name of a type of storage?

### Across

1. In 2009, Oracle acquired the rights to which programming language?
4. Landscape and portrait are two types of what?
6. What is the wheel between two mouse buttons called?
7. Which company coined the term 'podcast'?
8. What type of programming structure starts with the word 'while'?

## The more you know

- Samsung is 38 years and 1 month older than Apple.
- 1 Petabyte (1024 TB) hard drive could hold 13.3 years of HD-TV video.
- Alexa is always listening to your conversations.
- The first computer mouse was made out of wood.
- 86% of people try to plug in their USB devices upside down.
- Oddly enough, surgeons that grew up playing video games more than 3 hours per week make 37% fewer errors! Not only that, but they also had a 42% faster completion rate when it comes to performing laparoscopic surgery, as well as suturing.



## Little Alchemy 2

<https://littlealchemy2.com/>

As its name suggests, the website deals with the process of transformation you achieve when you start mixing different things. You start with Earth, Fire, Water, and Air. The goal is to create as many different materials or objects as possible. There are no rules, just mix and match your creations to create new ones. You will not even know where your time went.

## Iranian Hackers caught

Jasraj Johal

A group of Iranian hackers has been caught red-handed demonstrating how to break into email accounts and steal data. Researchers at IBM's X-Force security team have obtained roughly five hours of video footage that appears to have been recorded directly from the screens of hackers. The hackers are working for a group IBM calls ITG18, and which other security firms refer to as APT35 or Charming Kitten. The group is one of the most active state-sponsored espionage teams linked to the government of Iran. The leaked videos, seen by Wired, were found among 40 gigabytes of data that the hackers had apparently stolen from victim accounts, including US and Greek military personnel. The data also suggested that the hackers targeted US State Department staff and an unnamed Iranian-American philanthropist. The files were all uploaded by accident in May to an exposed server, just as IBM was monitoring the machine. The videos appear to be training demonstrations the Iran-backed hackers made to show junior team members how to handle hacked accounts. They show the hackers accessing compromised Gmail and Yahoo Mail accounts to download their contents, and siphoning off other Google-hosted data from victims. The researchers say the APT35 hackers appear to have stolen photos, emails, tax records, and other personal information from both targeted individuals. In some clips, the researchers say they observed the hackers working through a text document full of usernames and passwords for a long list of non-email accounts, from phone carrier to bank accounts.

### The Team

Jasraj Johal (Chief editor)

Milind Sharma (Chief editor)

Subham Jalan (Design editor)

Jay Sharma (Writer)

Jeev Jatin Singh (Writer)

Naman Keswani (Writer)



### App of the week

Wavelet is an interesting equalizer app. It tries to emulate other headphones by adjusting the equalizer via software. This isn't the first app to try something like that, but it's definitely unique in its own way. The app features a nine-band equalizer along with some of the usual stuff like a surprisingly tasteful bass booster, a limiter, and even a channel balancer in case you need the left or right side to be louder or quieter than the other. The main feature, though, is the collection of 2,300 presets that emulate various popular headphones. Some features are only available in the premium version and it is a single \$5.49 in-app purchase.