

QUEST



“ EVERYTHING YOU CAN IMAGINE IS REAL.”



QUEST
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Quest wishes you

Happy

NEW YEAR

2023

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CREDITS

Data privacy day

- Who and when created data privacy day?

National Data privacy day was created by the Committee of Ministers of the Council of Europe in 2006.

- Why is data privacy day celebrated?

Data privacy day is celebrated to create awareness amongst every person to monitor and clean up their virtual identities and to be safe from cyber-attacks and other problems.



Virtual identity

- What do we mean by virtual identities important



By virtual Identity, we mean the way people think about us on the basis of our online activity. It can be in any way like because of any comment, post, and blog on social media or because of online games we play or played.

- Why is monitoring and managing virtual identities important

Monitoring and managing our virtual identity is important because anyone can create false content on us online or steal our passwords somehow and comment or post such content that is not good from our side on social media to harm our virtual Identity. This may lead us to issues.



Cyber – attacks

- What are cyber - attacks?

Cyber - attacks means online hacking which may harm our device in order to steal, edit or corrupt data for many purposes. It can be of many types like stealing data, stealing passwords etc.



• Types of cyber – attacks

There are many types of cyber - attacks like. For example: -

1st) Malware

It means a corrupted file or program in which there is a secret program which can fetch the data from the device or corrupt, edit or delete data from the device.

2nd) Phishing

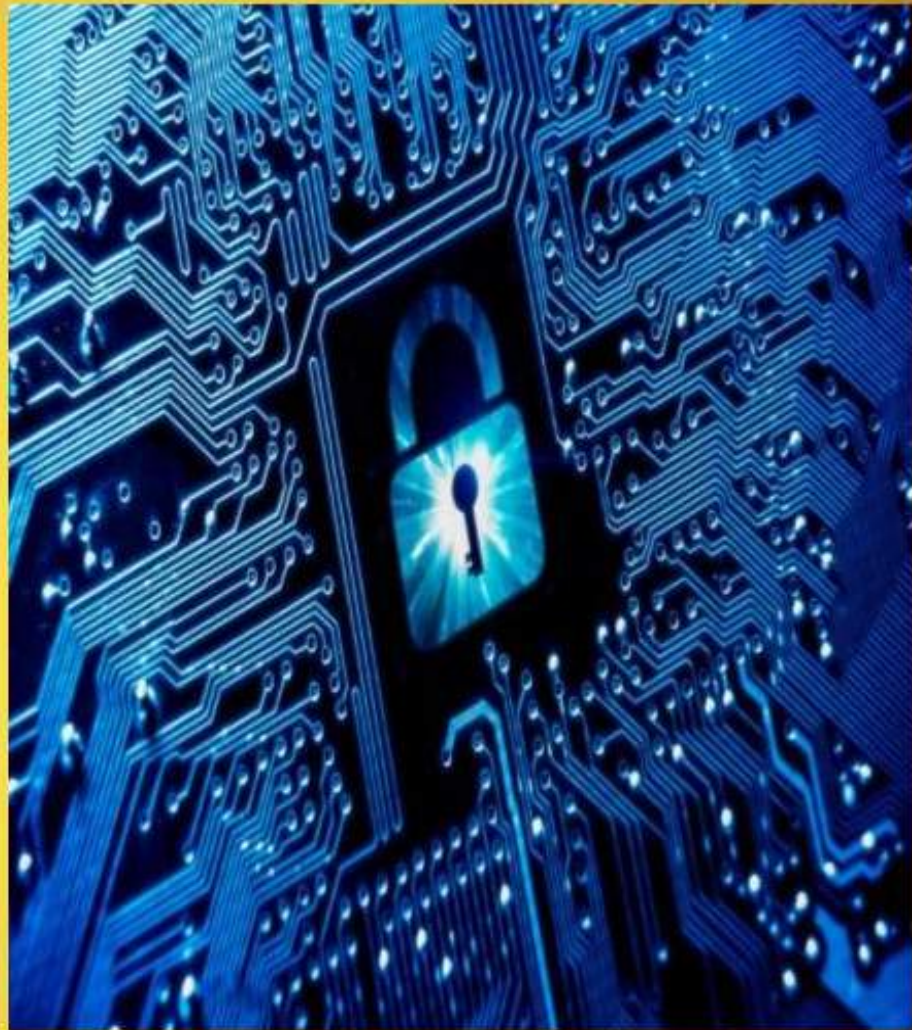
Phishing attack means sending someone emails that fool them into believing that they are sent by authorised senders that have links either direct them to fake websites or download malwares in the victim's device. If it contains a fake website, it can fool them into revealing the password they have for that website.

3rd) Man-in-the-middle attack

This means a hacker intercepts the communication between the website and user(s) to gain access to valuable information.

4th) Denial of service attack

This means overloading a site with such malicious requests that diverts way from the normal traffic to the malicious traffic which in turn denies service to normal user.



- Made by
Aarav Gupta

DO I KNOW IT?

What do I know about it?

A percent, a mile a bit?

It's vast to explore

An unknown situated at fore

Compounds atoms tissues

Give me a dread of issues

Yet I won't run away

Science is what the universe obeys

My myth cries as its all of magic

Than a rather unfathomable logic

But do I know it yet?

Can be a gift of god, an ocean of threat

I mix it all for an invention

It needed a glass of comprehension

A scientist, if I think like one

Some things could be undone!

I'll ask the rabbit how he won

And the turtle, he begun

The flaws won't be in silence

Once I learn the sorcery of science

JANUARY 28 IS

DATA PRIVACY DAY

The National Data Privacy Day
28 January 2023
Made by Milan M1-D
GYANBHARATI SCHOOL

WHY DO WE CELEBRATE NATIONAL DATA PRIVACY DAY?

- January 28 is celebrated as Data Privacy Day (DPD) across the world. The objective of the day is to sensitize individuals and disseminate privacy practices and principles. It encourages everyone to own their privacy responsibilities to create a culture of privacy. Data Privacy Day reminds us each year to review how our data is used.

WHAT SHOULD WE DO ON NATIONAL DATA PRIVACY DAY?

- On national data privacy day we should clean up virtual identities and improve our online security measures and learn more about cyber safety and cyber ethics.....

WHAT IS PRIVACY?

The ability of an individual or group to secluded themselves or information about themselves and thereby reveal it selectively
A personal, subjective condition. One person cannot decide for another what his or her sense of privacy should be
Privacy is sometimes related to anonymity, the wish to remain unnoticed or unidentified in the public

EG OF PRIVACY ISSUES.....

- Violation of Privacy
- Computer Monitoring
- Computer Matching
- Unauthorized Personal Files



**HOW OUR PERSONAL INFO GETS
LEAKED?**

BY ISP

Internet Service Providers (ISP) always know your IP address and the IP address to which you are communicating ISPS are capable of observing unencrypted data passing between you and the Internet, but not properly-encrypted data They are usually prevented to do so due to social pressure and law.

BY EMAIL!

- May be inappropriately spread by the original receiver
- May be intercepted
- May be legally viewed or disclosed by service providers or authorities

BY WEB BROWSERS

Most web browsers can save some forms of personal data, such as browsing history, cookies, web form entries and password

You may accidentally reveal such information when using a browser on a public computer or someone else's.

WHAT ARE COOKIES?

Well I am not joking. I am talking about internet cookies see
Cookies are data packets sent by a server to a web client and then sent back unchanged by the client each time it accesses that server Cookies are used for authenticating, session tracking and maintaining specific information about users, such as site preferences or the contents of their electronic shopping carts Cookies are only data, not programs nor viruses

A Sample of Cookie



-->If you type `JavaScript:alert(document.cookie)` into the address bar, when logged onto a site, it is possible to see the cookies which have been set from that domain.

6/3/2011

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BY CYBERCRIMES

- Spyware - takes advantage of security holes by attacking the browser and forcing it to be downloaded and installed and gather your information without your knowledge
- Phishing occurs when a criminal lures the victim into providing financial or personal data
- Pharming occurs when criminals plant programs in the victim's computer which re-direct the victim from legitimate Web sites to scam look- alike sites



Solutions

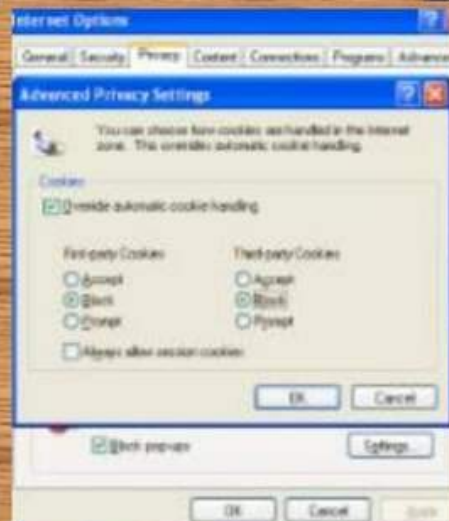


CLEAN VIRTUAL IDENTITIES

- **5 ways to clean up your virtual identities**
- Audit your accounts. Do an audit of the accounts or profiles that you have created online. ...
- Delete and deactivate. Try to find your old accounts, delete information and deactivate the accounts. ...
- Do a Google search. ...
- Manage your privacy settings. ...
- Curate your online presence.



Cookies controls



Use antiviruses and firewall



25 Useful IPTable Firewall Rules

The Platform for Privacy Preferences (P3P)

Developed by the World Wide Web
Consortium (W3C)

A protocol allowing websites to declare their intended use of information they collect about browsing users and allow users to configure their browsers or other software tools in such a way that they are notified whether web site privacy policies match their pre-set preferences

THE END? WELL.....

- **The death of privacy**
- Google knows what you're looking for. Facebook knows what you like. Sharing is the norm, and secrecy is out. But what is the psychological and cultural fallout from the end of privacy?
- We have come to the end of privacy; our private lives, as our grandparents would have recognised them, have been winnowed away to the realm of the shameful and secret. To quote ex-tabloid hack Paul McMullan, "privacy is for paedos". Insidiously, through small concessions that only mounted up over time, we have signed away rights and privileges that other generations fought for, undermining the very cornerstones of our personalities in the process. While outposts of civilisation fight pyrrhic battles, unplugging themselves from the web – "going dark" – the rest of us have come to accept that the majority of our social, financial
- For further info go to <https://www.theguardian.com/world/2014/aug/03/internet-death-privacy-google-facebook-alex-preston>

NEWS CORNER



IIT Delhi offers technology solutions on 'Industry Day'

From advanced soft body armour to clothing to sustain defence personnel in extreme weather or mechanism to detect seizures, a wide range of solutions were on display at the "Industry Day" organised at IIT Delhi

The collaborative and interdisciplinary product demonstrations included future-ready solutions in the field of healthcare technologies, electric vehicle research, communications and sustainable clean energy and environment.

Universal portable plug-in EV chargers were also on display
An AI-based portable device for the rapid detection of epilepsy was also showcased.



The technology serves e-rickshaw owners by facilitating home inverter solutions with the use of the same charger and stored energy in vehicle batteries without any additional expenses on other power electronic interfaces. The technology also serves the small food vendors who can use the stored energy for their small-scale businesses



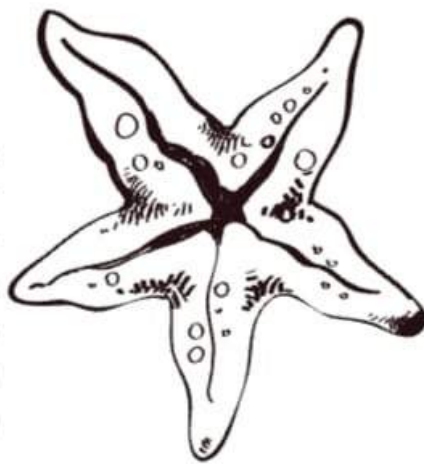
News Corner



Scientists call for action after billions of sea stars perish on West Coast

Scientists along the West Coast are calling for action to help sunflower sea stars, among the largest sea stars in the world, recover from catastrophic population declines.

Experts say a sea star wasting disease epidemic that began in 2013 has decimated about 95% of the population from the Aleutian Islands of Alaska to Mexico's Baja California peninsula,



The decline triggered the International Union for Conservation of Nature to classify the species as critically endangered in 2020.

The sea stars, which are among the largest in the world and can span more than 3 feet (91 centimeters), are predators to the kelp-eating sea urchin. Without them, sea urchin populations have exploded, causing a troubling decline in kelp forests that provide food and shelter to many aquatic species along the West Coast.

News Corner



China to send 3 astronauts to own space station, eyes manned Moon mission

China will be sending a three-person crew to its space station, which is nearing completion, and also announced plans for a manned mission to the Moon amid intensifying competition with the US

The spaceship will take three astronauts -- Fei Junlong, Deng Qingming, and Zhang Lu -- to carry out the spaceflight mission.

The crew will stay in orbit for about six months, a period in which the construction of the low-orbit space station is expected to be completed. The launch will be carried out with a Long March-2F carrier rocket, which will be filled with propellant soon,

This is the third manned mission to be launched by China to link up with its space station.

Two batches comprising three astronauts were flown to the space station, on a six months mission each to build the orbiting station.

While one set of astronauts returned, another set of three astronauts is currently based in Tianhe.



Bio-ethanol plants to boost India's drive to meet clean energy target

The plant will use maize as bio resource and the project will also provide raw material for high protein animal feed, fisheries and poultry.

The depletion of natural resources and the consequent pollution and global warming due to fuel usage has kept us perturbed for decades together. And the only solution lies in introducing renewable and eco-friendly resources like biofuels, for running automobiles and machinery.



Bio-ethanol project is a big leap in the direction of cooperative sector, environmental improvement, doubling of farmers' income, increasing of India's foreign exchange reserves and combating global warming challenges.

Bioethanol production is not a new endeavour for India though. However, Gadkari equates bioethanol production with the diversification of agriculture towards the energy and power sector, empowerment of farmers and rapid employment in rural India. The current production of 400 crore litres of bioethanol is set to increase to 4,000 litres after the development of flexi engines. Gadkari sees bioethanol prepared from molasses, sugarcane juice, rice and corn as a way cheaper and more sustainable substitute.



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ALL QUIET AT OKHLA FRONT AS WINGED VISITORS YET TO FLOCK TO SANCTUARY IN NOIDA

The Okhla bird sanctuary, which used to echo with the honking and murmurs of flamingos, geese, spoonbills and other migratory birds at this time of the year, seems deserted so far this season.

There was some concern among birders and foresters about the water at Okhla.

While the warmer winter could be a reason why the sanctuary is yet to have birds flying in, the real reason could be the dry conditions at the locale at the peak arrival time of the migratory birds..

NEWS CORNER

Science News

World Issues

Sustainability News

CABINET APPROVES RS 19,744 CRORE NATIONAL GREEN HYDROGEN MISSION.

The mission seeks to promote development of green hydrogen production capacity of at least 5 MMT (Million Metric Tonnes) per annum

The Centre approved the Rs 19,744 crore National Green Hydrogen Mission seeking to turn India into a global hub for production, utilisation, and export of Green Hydrogen and its derivatives - the cleanest form of energy that the world hopes would meet global demand while fulfilling climate action goals.

Green hydrogen refers to splitting water molecules into hydrogen and oxygen using electricity generated from a renewable source, and using the same hydrogen as a source of energy in transportation, industry, power, chemicals and other sectors.

Hydrogen is produced even now with its demand set to increase to 500-680 million tonnes by 2050 from 87 million metric tons in 2020. But there is a catch - over 95% of current hydrogen production is fossil-fuel based, and very little hydrogen currently produced is "green" in nature.



TAKNEEK



MONTHLY TECH MAGAZINE

BY:
ARYAN CHAWLA SI-D



The Cost of Cloud: A Trillion-Dollar Paradox

Sarah Wang and Martin Casado of the venture capital firm, Andreessen Horowitz, argue that while cloud delivers significant value early in a firm's growth, the costs it puts on the business may eventually outweigh the benefits. While primarily focused on startups, this article has been a useful thought starter for enterprise technology leaders as they continue to explore the long-term business implications of the cloud.



What Ever Happened to IBM's Watson?



A decade ago, IBM's Watson supercomputer defeated Ken Jennings, the best human "Jeopardy!" player ever. IBM executives said that their artificial intelligence would transform industries, generate fortunes for the company, and start a technological revolution. In *What Ever Happened to IBM's Watson?* New York Times Technology Reporter Steve Lohr traces the company's missteps with Watson that have led IBM to settle on a far less ambitious AI strategy, suggesting that "the march of artificial intelligence through the mainstream economy, it turns out, will be more step-by-step evolution than cataclysmic revolution."

Why Computers Won't Make Themselves Smarter?

The notion of 'the singularity' has been tantalizing the tech community for decades, heralding a future with infinitely powerful artificial intelligence capable of independently improving itself. Even with the phenomenal computing advancements of the 21st century, it seems we are nowhere closer to actualizing this intelligence explosion. Is it truly possible for a computer program to surpass the intelligence of its human creators? Chiang offers an interesting counter-point to those who say yes.



From delivery robots to in-car VR, the gadget line-up of CES 2023 is nothing short of groundbreaking!

Tech companies of all sizes are showing off their latest products at CES, formerly known as the Consumer Electronics show.

The show is getting back to normal after going completely virtual in 2021 and seeing a significant drop in 2022 attendance because of the pandemic. On Wednesday, big names like LG and Samsung and smaller startups showcased their latest products for the media in Las Vegas. The show officially opens Thursday.

No Messy Wires

LG Electronics unveiled a 97-inch OLED TV with what it calls a Zero Connect Box that streams content wirelessly. The box, which still needs to be plugged in, just needs to be within 30 feet (nine meters) of the display. But why would anyone want a wireless 4K television? David M. Park, senior marketing manager at the South Korean tech company, says it means owners can place a TV in the center of the room without all the messy wires, or maybe mount it above a fireplace or perhaps on a hard-to-drill concrete wall. LG says the 97-inch LG Signature OLED M (model M3) will be available in the second half of 2023. Pricing has not yet been announced.



Delivery Robots

Picture yourself weaving through crowds at the airport on a busy holiday weekend, ignoring the rumble in your stomach as you speed past restaurants to make it to your gate on time.

Brooklyn-based Ottonomy.io is looking to ease that all-too-familiar travel anxiety with its fully autonomous delivery robots. If you're traveling through airports in Cincinnati, Pittsburgh or Rome, for example, you might cross paths with one of these robots as they bring food directly to travelers at their gates. Ottonomy unveiled its newest robot, the Yeti, on Wednesday at CES. It showed off its new self-dispensing feature, which eliminates the need for a human to be present to collect deliveries. The company also provides outdoor curbside delivery services up to 4 miles (6.4 kilometers). Ottonomy co-founder and CEO Ritukar Vijay said the price tag on its services varies depending on the number of robots a company wants to deploy and how many restaurants or retailers are included in the delivery footprint.



ISRO lines up science missions for 2023; satellite launch market set for rocket-themed game of thrones

Indian Space Research Organisation (ISRO) will turn its focus on science experiments in 2023 with dedicated missions to the Sun - Aditya - and the moon - Chandrayaan-3 - even as the nascent start-up sector is set to soar in the space applications segment. The upcoming year will also witness a series of experiments on India's maiden human space flight - Gaganyaan project - with the first uncrewed mission expected in the last quarter of 2023 aimed at validating the performance of the human-rated launch vehicle, orbital module propulsion system and recovery operations.



ISRO further plans to conduct the first runway landing experiment (RLV-LEX) of the reusable launch vehicle early next year from Aeronautical Test Range in Karnataka's Chitradurga, Union Minister of State in Prime Minister's Office Jitendra Singh told Parliament this month. Indian start-ups that marked their arrival with the sub-orbital flight by Skyroot Aerospace's Vikram-S rocket, the first by a private sector company and the launch of Pixxel's hyperspectral satellites Shakuntala, on SpaceX's Falcon-9 rocket in April and Anand onboard ISRO's PSLV in November. Skyroot Aerospace, which launched India's first privately developed rocket in November, plans to put a client satellite in orbit sometime next year, while Agnikul Cosmos, a start-up incubated on the IIT-Madras campus, has also lined up the test flight of its highly customisable Agnibaan rocket. "We are developing six commercial hyperspectral imagery satellites which will be ready for launch next year," Awais Ahmed, Pixxel co-founder and CEO, had told PTI. Ahmed said many more rocket companies around the globe will see their first orbital launches come to fruition which will lead to a rocket-themed game of thrones as they vie for the same set of customers sending satellites into space. The start-ups are eyeing the huge space applications market in the country, which was earlier the sole domain of ISRO, carving a niche for themselves in the earth imaging sector, developing rockets to launch small satellites, designing cheaper fuels for satellites and even planning to take tourists on a space journey.

QUEST

Through the lens

"You don't take a photograph, you make it." - Ansel Adams

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JANUARY 2023





"The purple tint"

FLOWER OF THIS
PURPLE DYE, HIT
WITH CUPID'S
ARCHERY, SINK IN
APPLE OF HIS EYE.

-WILLIAM SHAKESPEARE

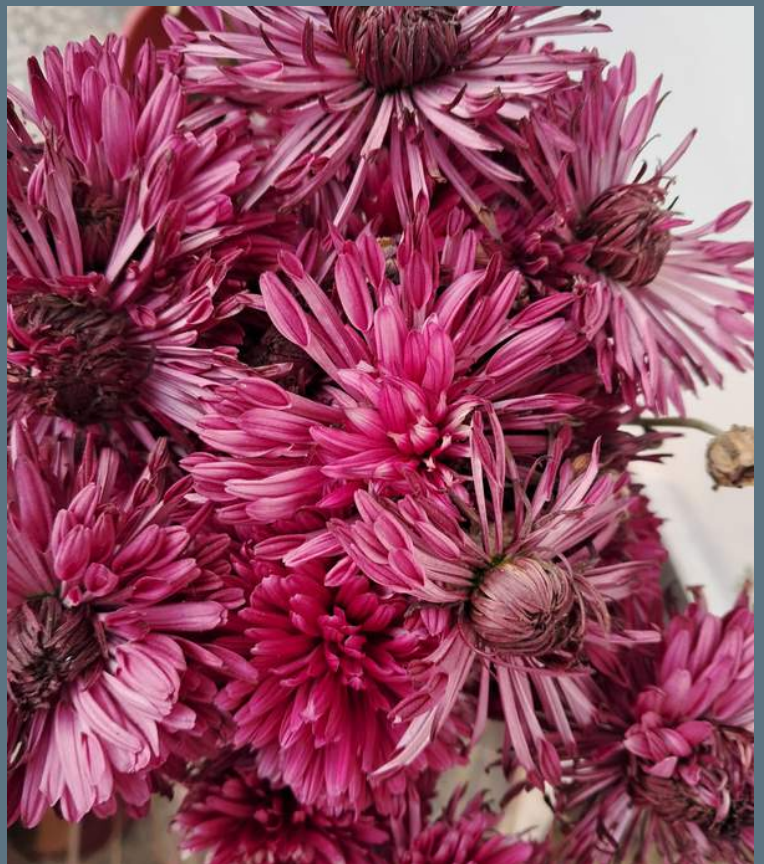


"Let it bloom"



**MANY EYES GO
THROUGH THE
MEADOW, BUT FEW SEE
THE FLOWERS IN IT.**

- RALPH WALDO EMERSON





"Old is gold"

ONE'S HERITAGE
AND ROOTS IS
SOMETHING TO BE
PROUD OF AND
CHERISHED.

-SONJA MORGAN



**“THERE IS ONE THING THE PHOTOGRAPH MUST
CONTAIN, THE HUMANITY OF THE MOMENT.”**

— ROBERT FRANK



**THROUGH THE LENS
--QUEST**

JANUARY 2023

Sudoku



			2	6		7		1
6	8			7			9	
1	9				4	5		
8	2		1				4	
		4	6		2	9		
	5				3		2	8
		9	3				7	4
	4			5			3	6
7		3		1	8			

Solutions

9	5	2	8	1	3	9	7	4
7	6	3	4	1	8	2	5	9
2	4	8	9	5	7	1	3	6
5	1	9	3	2	6	8	7	4
9	5	1	7	4	3	6	2	8
3	7	4	6	8	2	9	1	5
8	2	6	1	9	5	3	4	7
1	9	7	8	3	4	5	6	2
6	8	2	5	7	1	4	9	3
4	3	5	2	6	9	7	8	1

—Art Gallery—



Saransh
M1C

Yashmay
M1



Dhaani Priya
M1 E



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Art Gallery- Trejal Singh



JANUARY 2023

QUEST

**"CREATIVITY IS SEEING WHAT OTHERS SEE AND THINKING
WHAT NO ONE ELSE EVER THOUGHT."**

- ALBERT EINSTEIN



BY THE EDITORS OF QUEST