



KNOW BEL

ENLIGHTENING THE NOBLES !

ISSUE NO. 01

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WITH THE START OF THIS
HAPPY NEW YEAR
2020

WE PRESENT THE 1ST ISSUE OF KNOWBEL

An exclusive magazine loaded with interactive
fun and knowledge.

Contact us @ :
knowbel.science@gmail.com



Enlightening the nobles !



WELCOME

We are highly obliged to present our very first issue.

We would like to welcome you all to the first edition of the monthly KNOWBEL magazine which we hope will contain useful and interesting information for the noble minds of India looking forward to enlighten the lamps of knowledge.

We provide an interactive platform for the readers to portray their skills, talent and knowledge, discover new science, fascinating literature, build up your general awareness, bring out the writer in you and loads of other stuff to do !

We encourage you to explore it by yourselves and hope you enjoy it !

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WONDERELLA

NEVER STOP QUESTIONING

(ALEKSANDARNAKOVSKI/ISTOCK)

QUANTUM TELEPORTATION REPORTED IN A QUTRIT FOR THE FIRST TIME DECEMBER 26, 2019

BY DAVID NIELD

Earlier this year, we celebrated a first in the field of quantum physics: Scientists were able to 'teleport' a qutrit, or a piece of quantum information based on three states, opening up a whole host of new possibilities for quantum computing and communication. Up until then, quantum teleportation had only been managed with qubits, albeit over impressively long distances. This proof-of-concept study suggests future quantum networks will be able to carry much more data and with less interference than we thought. If you're new to the idea of qutrits, first let's take a step back. Simply put, the small data units we know as bits in classical computing can be in one of two states: a 0 or a 1. But in quantum computing, we have the qubit, which can be both a 0 and 1 at the same time (known as superposition).

Now, the qutrit has the same relationship to the trit, adding superposition to the classical states that can be represented as 0, 1 or 2. A qutrit can be all of these at the same time, making it another jump forward in terms of (for example) computer processing power or the amount of information that can be sent at once.

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A WORM THAT EATS PLASTIC BAGS

03 - RESEARCHERS DETERMINE AGE
FOR LAST KNOWN SETTLEMENT BY A
DIRECT ANCESTOR TO MODERN
HUMANS

04 - ESO OBSERVATIONS REVEAL
BLACK HOLES' BREAKFAST AT THE
COSMIC DAWN

05 - ASTRONOMERS ACCIDENTALLY
DISCOVERED AN INVISIBLE
'MONSTER GALAXY' FROM THE
BEGINNING OF THE UNIVERSE

FOR FURTHER READING VISIT [SCIENCEALERT.COM](https://www.sciencealert.com)
OR SCAN THE FOLLOWING QR CODE :



02 - SCIENTISTS HAVE DISCOVERED A WORM THAT EATS PLASTIC BAGS.

BY ZOË SCHLANGER

The wax worm, a caterpillar typically used for fishing bait and known for damaging beehives by eating their wax comb, has now been observed munching on a different material: plastic bags.

Scientist Federica Bertocchini of the Institute of Biomedicine and Biotechnology of Cantabria in Spain first noticed the wax worms' plastic-eating skills when she was cleaning up a wax worm infestation in one of the beehives she keeps at home. She put the worms in a plastic bag, tied it closed, and put the bag in a room of her house while she finished cleaning the hive. When she returned to the room, "they were everywhere," Bertocchini said in a statement. They'd escaped by chewing their way out of the bag, and fast.

"This project began there and then," she said. In a paper published in *Current Biology* on Monday (April 24), Bertocchini and her colleagues described 100 wax worms chewing through a polyethylene shopping bag—the kind that people discard at a rate of 1 trillion per year globally—in around 40 minutes. After 12 hours, the bag was significantly shredded

"100 wax worms chewing through a polyethylene shopping bag—the kind that people discard at a rate of 1 trillion per year globally—in around 40 minutes."



(IMAGE CREDIT: KUTTELVASEROVA
STUCHELOVA/SHUTTERSTOCK)

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03 - RESEARCHERS DETERMINE AGE FOR LAST KNOWN SETTLEMENT BY A DIRECT ANCESTOR TO MODERN HUMANS

SOURCE:

UNIVERSITY OF IOWA

An international team of researchers has determined the age of the last known settlement of the species *Homo erectus*, one of modern humans' direct ancestors. The site is called Ngandong, on the Indonesian island Java. The team dated animal fragments where *Homo erectus* remains were found and the surrounding landscape. The team determined the last existence of *Homo erectus* at Ngandong between 108,000 and 117,000 years ago.

"This site is the last known appearance of *Homo erectus* found anywhere in the world," says Russell Ciochon, professor in the Department of Anthropology at Iowa and co-corresponding author on the study. "We can't say we dated the extinction, but we dated the last occurrence of it. We have no evidence *Homo erectus* lived later than that anywhere else." The research team presents 52 new age estimates for the Ngandong evidence. They include animal fossil fragments and sediment from the rediscovered fossil bed where the original *Homo erectus* remains were found by Dutch surveyors in the 1930s, and a sequence of dates for the river terraces below and above the fossil site.

*"This site is the last known appearance of *Homo erectus* found anywhere in the world."*



HOMO ERECTUS SKULL (STOCK IMAGE).
CREDIT: © STOCKDEVIL / ADOBE STOCK

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04 - ESO OBSERVATIONS REVEAL BLACK HOLES' BREAKFAST AT THE COSMIC DAWN

SOURCE : ESO

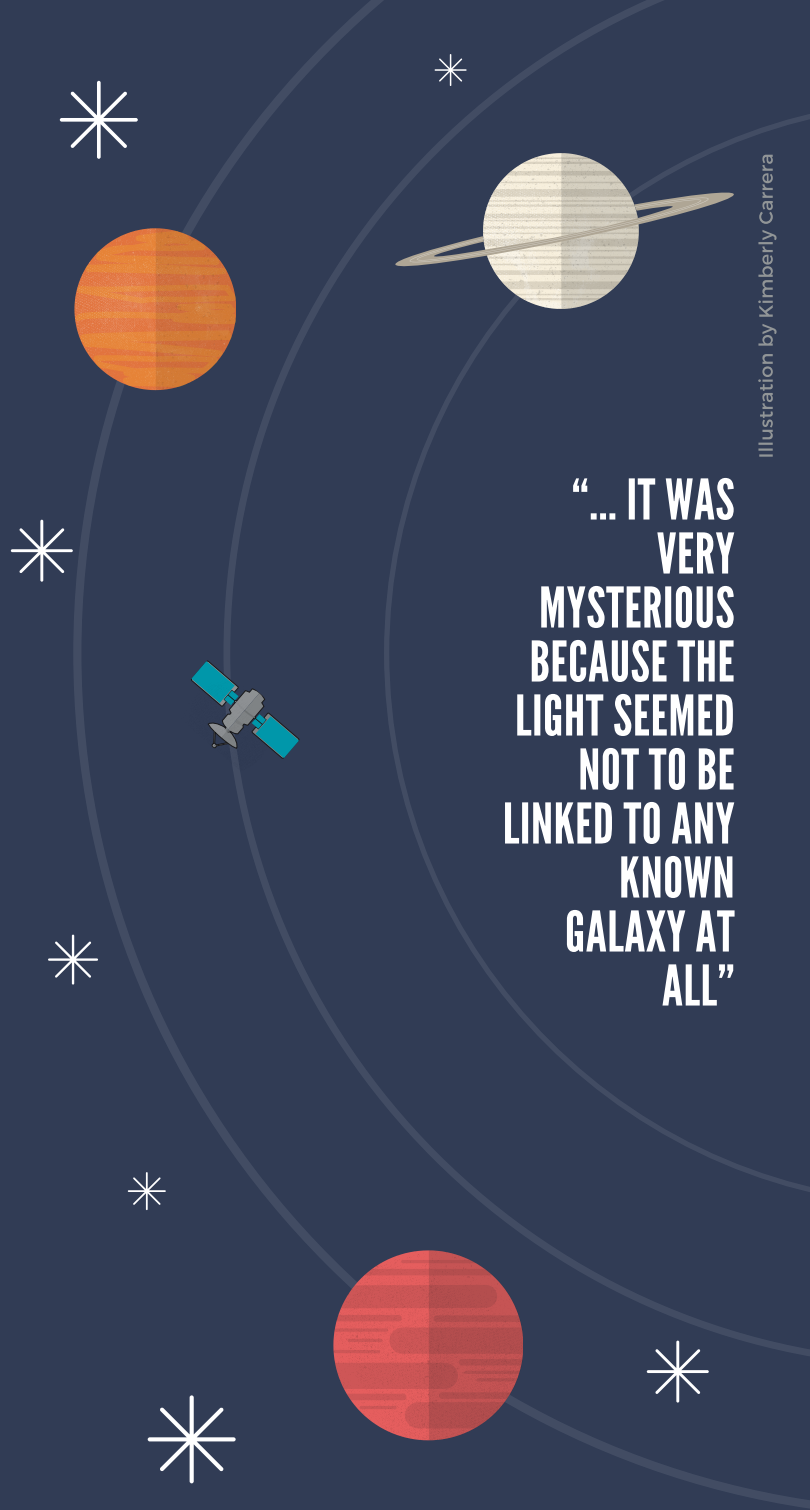
Astronomers have observed reservoirs of cool gas around some of the earliest galaxies in the universe. These gas halos are the perfect food for supermassive black holes at the center of these galaxies, which are now seen as they were over 12.5 billion years ago. This food storage might explain how these cosmic monsters grew so fast during a period in the universe's history known as the Cosmic Dawn.

05 - ASTRONOMERS ACCIDENTALLY DISCOVERED AN INVISIBLE 'MONSTER GALAXY'

SOURCE: UNIVERSITY OF ARIZONA

A team of astronomers has accidentally discovered an invisible monster galaxy from the beginning of the universe. The researchers were taking observations with the Atacama Large Millimeter Array, a group of 66 telescopes in Chile, when a faint bit of light appeared in the cosmos. They think that light is the glow of dust particles heated by stars forming inside the galaxy. That dust blocks other wavelengths of light, including the light from the stars themselves. So in a sense, the newly discovered galaxy is mostly invisible.

FOR FURTHER READING OF 04 VISIT [SCIENCEDAILY.COM](https://www.sciencedaily.com)
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FOR FURTHER READING OF 05 VISIT [SCIENCEDAILY.COM](https://www.sciencedaily.com)
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GOBBLE THE FACTS !

Get ready to guzzle down these interesting facts...

EVER WONDERED WHY ARE BANANAS CURVED ?



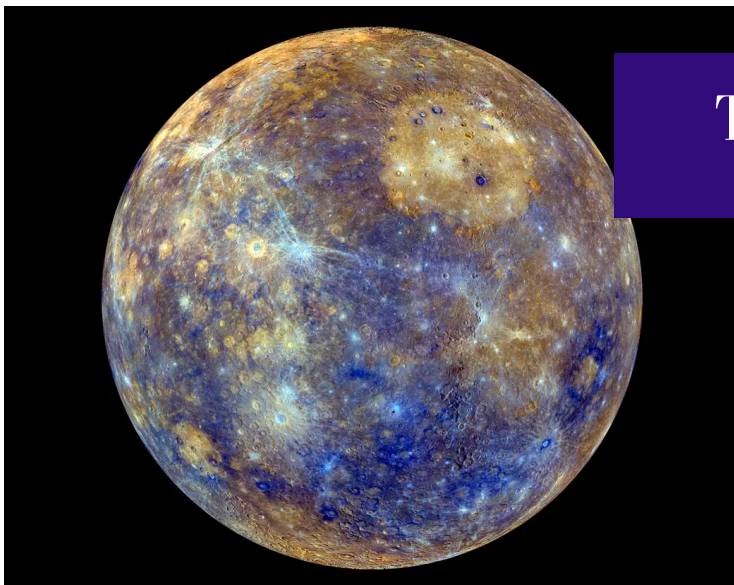
Bananas are curved because they grow towards the sun. Bananas go through a process called “negative geotropism.” Instead of growing towards the ground, they start growing towards the sun. The fruit grows against gravity, which gives the banana its familiar curved shape.

SOUND OF WATER !

Water makes different pouring sounds depending on its temperature. If you listen very closely, hot water and cold water sound slightly different when being poured. The heat changes the thickness, or viscosity, of the water, which changes the pitch of the sound it makes when it's poured. Cold water is thicker and therefore makes a slightly higher-pitched sound.



THE FASTEST PLANET !



Mercury is the fastest planet. Mercury zooms around sun in just 88 days, at an incredible 173,000 kph. That makes it faster than any space rocket ever invented !!!



ENGINEERING MARVEL !

Bandra Worli Sealink has steel wires equal to the earth's circumference. It took a total of 2,57,00,000 man hours for completion and also weighs as much as 50,000 African elephants. A true engineering and architectural marvel.

ORIGIN OF SHAMPOO !

Shampooing is an Indian concept Shampoo was invented in India, not the commercial liquid ones but the method by use of herbs. The word 'shampoo' itself has been derived from the Sanskrit word champu, which means to massage.



MISSILE MAN OF INDIA !

Science day in Switzerland is dedicated to Ex-Indian President, APJ Abdul Kalam.

The father of India's missile program had visited Switzerland back in 2006. Upon his arrival, Switzerland declared May 26th as Science Day.

Curiosity Korner

Get those Curious juices flowing

Here are some one - liners to soothe your Curiosity

1. Series that won 'Outstanding Drama Series Award' in Emmy Awards 2019 - Game of thrones
2. Noble peace prize 2019 was won by- Abiy Ahmed Ali
3. In which country more than 3000 women watched a football match in the stadium for the first time in nearly 40 years - Iran
4. Old name of Sri Lanka - Ceylon
5. 'Last judgement' was the first painting by the famous Italian painter - Michelangelo
6. Country known as the land of the midnight sun - Norway
7. Largest gulf in the world - gulf of Mexico
8. Earlier name of tomato - Love apples
9. First actor to win Oscar - Emil Jannings
10. First country to introduce stamps - Britain
11. World's biggest manufacturers of bicycles - hero cycles, Ludhiana
12. Film nominated for Oscar 2019 as India's official entry - Gully boy
13. 1st January is known as - Army medical corps establishment day
14. No of union territories in India - 9
15. Origin of samosa - Middle East and Central Asia (Iran)



THE QUIZOPEDIA

Are you ready to get your brain busted !



The Quizopedia

A brain-storming contest and a chance for the readers to become famous.

But hold your horses right there! Check out the **instructions** below before you begin :

The QR code below will take you to a Google form which is a quiz consisting of 10 questions. You must answer all the questions and try to get most of them correct. There will be no negative marking.

The names of first three winners would be published in the upcoming issue and winner of the contest will get exciting prizes at the end of the contest. Answers would be officially released via mail on 25/01/2020. *(Competition begins on 01/01/2020 at 6 pm)*

The winners would be chosen based upon

1. No. of correct answers
2. Time of submission

So let's begin....

Scan below.. 



D-CODE

THERE IS ONLY ONE TRUTH !
BRING OUT THE SHERLOCK IN YOU.

D-CODE

Here is a brainy puzzle for you. Use anything and everything that you can and decipher it. The answer is couple of words. . . , scan the QR code below and send us the right answer in shortest amount of time to get that glory. The winner and next 2 runner-ups will have their photo and names printed in the upcoming issue. Top the leader-board and win exiting prizes and the end of the contest. Competition starts on 01/01/2020, 6pm.

Here comes the question:

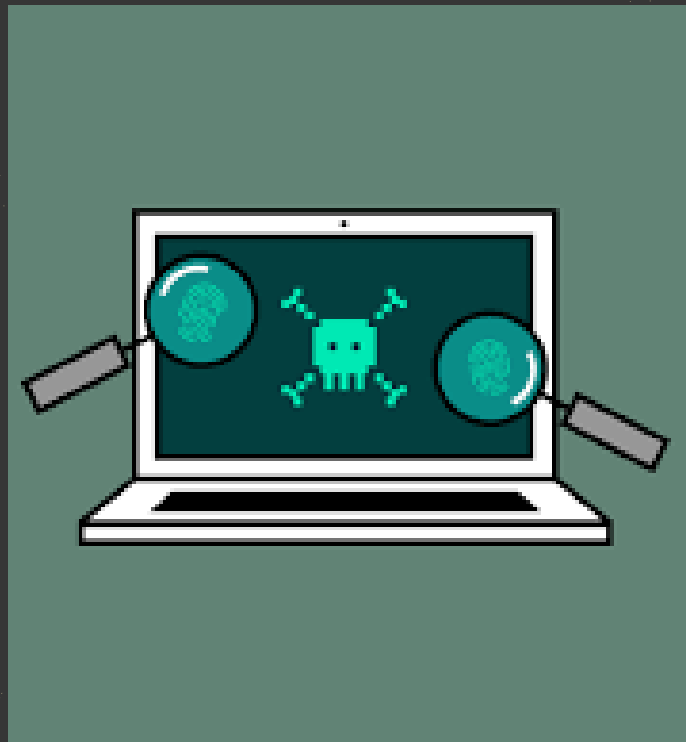
- A. Piercing Math made this thing possible, the largest of its kind. And of course, it comes with a static sun.
- B. What's first Phoenix or Fire ? (or maybe both ?)
- C. As grand as its name says, it gives off a truckload of Earth's history.

1. B is based in X, and X also boasts to have A. X is the home to C. What's C ?

(CAUTION : ENTIRE THING ABOVE ALL IS A QUESTION FROM A. TO 1.)

(HINTS : SCAN THE QR CODE !)

- QR code for hints : (Remember hints would be released 48 hours after the start of the contest)



- To submit your answer scan the following QR code :





The Man Who made the world cry out of laughter!



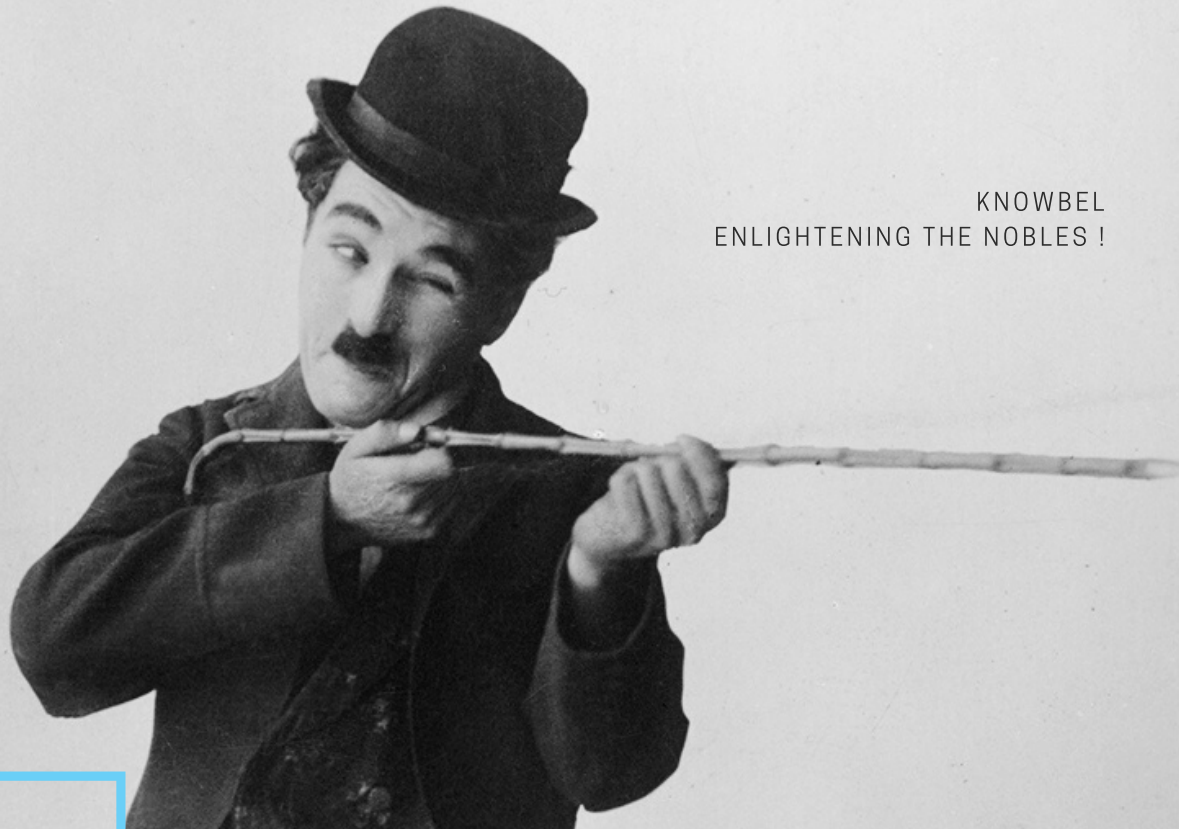
CHARLIE CHAPLIN

No one in history has made people laugh as much as Charlie Chaplin. The Little Tramp was silent cinema's first mega star, a character so recognizable that The Guardian has called him "the most famous man who ever lived." Even today, there are people living in random, out-of-the-way places from Albania to Eritrea to inner Mongolia who would still be able to tell you Chaplin's name just from glancing at a picture of him. That was the power of Chaplin's timeless comedy: He could make you continue to associate things like toothbrush mustaches with laughter even after Adolf Hitler had ruined them for everyone.

Yet Chaplin's real life was as far from a laugh a minute as you can possibly get. While his films have been criticized in our cynical modern world for a tendency toward saccharin sweetness and blatant tear jerking, the guy dreaming up all this schmaltz was far from smiling on the inside. From his early years trapped in biting poverty in London to his later mauling by the American political establishment and his own inability to say no to his darkest temptations, Charlie Chaplin was a clown who wasn't just crying behind the facepaint, but screaming his way through an absurdly bleak existence.

WITHIN THESE PAGES:

- 02** *HIS ALCOHOLIC
FATHER
ABANDONED HIM*
- 03** *A MOTHER'S
MADNESS*
- 04** *ENDLESS,
AWFUL JOBS*
- 05** *THE TYRANT
APPEARS*



“

*Life is a
tragedy
when seen
in close-up,
but a comedy
in long-shot .*

”

For detailed reading please
scan the following QR code
or visit grunge.com



02. HIS ALCOHOLIC FATHER ABANDONED HIM

In 1890, Charles Chaplin was one of the hottest talents on the British stage. A comic singer, he was going up in the world even as he was settling down with his wife Hannah — a fellow vaudeville star — and their baby Charlie.

Drinking was a big problem among vaudeville stars in the 1890s, and Charles Chaplin was a boozehound like no other. By the time Charlie was 12, the old drunk was dead, killed by his addiction to the bottle. If this sounds tragic, now might be the time to mention that it was probably better that way. Charles was awful. When Charlie was just 1, he walked out on the family, taking their means of support with him. Hannah and Charlie were plunged into grinding poverty, which Charles did nothing to alleviate. When he was at the height of his fame, presumably earning decent money, he was arrested for failing to provide for both Charlie and his other son, Sydney.

Despite their destitution, Hannah managed to keep a roof over young Charlie's head and entertained him with old vaudeville routines. It could have even been a "poor but happy" childhood.

03. A MOTHER'S MADNESS

It happened during one of Hannah's performances, while Charlie watched from the wings. According to Biography, Hannah was halfway through a song when she suddenly lost her voice. The manager panicked and shoved Charlie out. In what feels like the opening for a feel-good movie, young Charlie knocked everyone's socks off. In a kinder world, this moment would be the beginning of Charlie's career. Instead, it was the beginning of his mother's descent into madness.

It quickly became clear that Hannah's voice issue was just the first outward sign of the demons consuming her. As she kept trying to raise her kids in poverty, she drifted further from reality.



“

*I Always
like walking
in the rain,
so no one
can see me
crying.*

”

04. ENDLESS, AWFUL JOBS

To survive Charlie had worked as a newspaper vendor, a toy-maker, a printer, a doctor's boy, and about a zillion other things. It wasn't until the 20th century that he was able to move back into vaudeville, and it wasn't until 1908, when he was 18, that it became a viable career. Signed to play the drunk in a comic sketch for Fred Karno's pantomime troupe, Chaplin even toured America. Evidently, America liked what it saw. In 1912, producer Mack Senett signed the young comic to appear in motion pictures. This time, the big break was real.

05. THE TYRANT APPEARS

After Senett signed Chaplin, the young comic's star exploded. According to the British Film Institute, Chaplin made 34 films in 1914 alone. By the second film, he'd created the Tramp character. By the 12th, he was directing. By 1915, he'd signed to Essanay Studios and been given his own production unit. By 1916, he was with Mutual Films, where he had complete creative freedom and the largest salary in Hollywood.

"Do not go Gentle into that Goodnight"

-by Dylan Thomas

Poetica

"Do not go gentle into that good night" by Dylan Thomas is one of the most well known poems which also happens to be featured in Christopher Nolan's famous movie 'The Interstellar'. To brighten up your day here's the full poem:

Do not go gentle into that good night,
Old age should burn and rave at close of day;
Rage, rage against the dying of the light.

Though wise men at their end know dark is right,
Because their words had forked no lightning they
Do not go gentle into that good night.

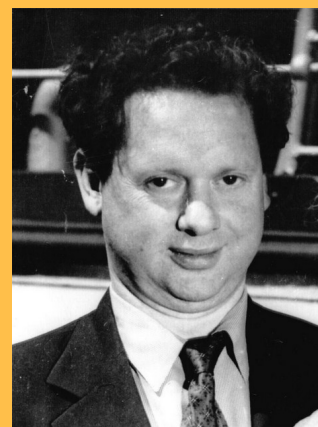
Good men, the last wave by, crying how bright
Their frail deeds might have danced in a green bay,
Rage, rage against the dying of the light.

Wild men who caught and sang the sun in flight,
And learn, too late, they grieved it on its way,
Do not go gentle into that good night.

Grave men, near death, who see with blinding sight
Blind eyes could blaze like meteors and be gay,
Rage, rage against the dying of the light.

And you, my father, there on the sad height,
Curse, bless, me now with your fierce tears, I pray.
Do not go gentle into that good night.
Rage, rage against the dying of the light.

About the Author : -



The Welsh poet Dylan Thomas at Southampton on his return from a lecture tour in the United States in 1949.

(AP Photo/dsr)

the public. Unlike other poets Thomas had a remarkably unique style of writing can even sway hearts of masses.

To get the most out of this poem we take a peek into author's life.

Dylan Marlais Thomas (27 October 1914 – 9 November 1953) was a Welsh poet and writer. Although he died prematurely, Thomas had acquired a lot of reputation because of his original, rhythmic and ingenious use of words and imagery. His position as one of the great modern poets has been much discussed, and he remains popular with

For more information please visit blog.prepscholar.com or scan the following QR code.



“ We will open the book.
Its pages are blank. We
are going to put words
on them ourselves. The
book is called
Opportunity and it's
first chapter is New
Year's Day.”

Happy
New Year
2020

Mail us your poems,
articles, questions,
queries, etc. at:
knowbel.science@gmail.com

Thank you for reading our first
issue. We hope you enjoyed it.
Do give us your feedback by
scanning the given QR code or by
just clicking on the link given below:
<https://forms.gle/XHAGBVGDn1wcHuGd8>

