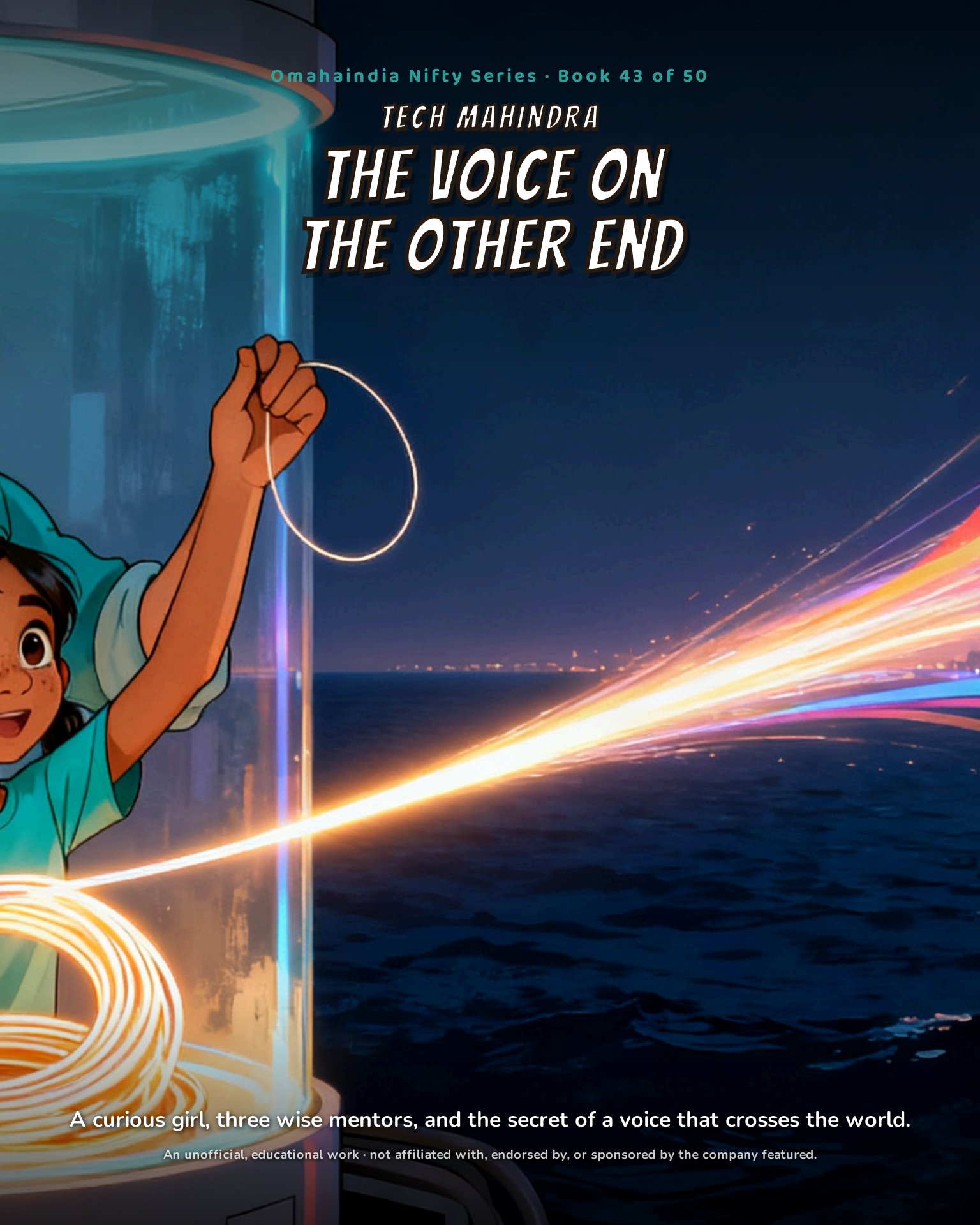




Omahaindia Nifty Series · Book 43 of 50

TECH MAHINDRA

# ***THE VOICE ON THE OTHER END***

A curious girl, three wise mentors, and the secret of a voice that crosses the world.

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# ***OMAHAINDIA NIFTY SERIES***

*A latticework of mental models for young minds — where  
science becomes business.*

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For readers aged 7 and up.

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characters, not the real companies or people they explore. Company  
names and marks belong to their respective owners and are used here  
for identification and commentary only.

## ***MEET THE CHARACTERS***



***CHARLOTTE***



***OWEN***



***BEN***



***WARREN***



***CHARLIE***

A curious girl, a wise old teacher named Ben, and his student Warren with Warren's partner Charlie — together exploring India's greatest companies, one adventure at a time.

# THE VOICE THAT CROSSED THE OCEAN

Back home, Grandpa Ben's compass twitched again — pointing between an old telephone and a thin thread of light.

**TWITCH**

The old diary fell open. A new line shimmered in Grandpa Ben's hand.

A telephone... and a beam of light? What's the link?

*There's a voice  
and it's calling  
I can't hear it  
but I feel it  
It's a voice from  
the other side  
of the ocean  
I can't hear it  
but I feel it*

"Find how a voice can fly across an ocean faster than a blink."

## ★ WORTH REMEMBERING

You say "hello" into a phone, and a friend an ocean away hears it almost instantly. But your voice can't swim the sea! So what actually rushes across the world in that heartbeat? That's the puzzle of this whole adventure.



Golden light swirled up and pulled Charlotte in.

WHOOSH



Here we GO!



#### CHARLOTTE'S SECRET NOTEBOOK

Two BIG questions:

- ① How does a voice cross a whole ocean in less than a blink?
- ② Grandpa Ben drew a thread of *light*. What has light got to do with talking? 💡



# THE ROOM FULL OF LIGHT



One blink, and she stood in the biggest, busiest room she'd ever seen — walls of blinking lights and rivers of glowing cables.

It's a whole city made of LIGHT and wires!



A friendly man in a teal shirt waved, a coil of glowing thread in his hand. "I'm Owen, a network engineer. In here, we send voices as light."

Voices as... LIGHT?!



All around, thin shining threads carried tiny sparks racing faster than she could follow.

So much rushing light — and it's all people TALKING?

Stick with me, kiddo.

## CHARLOTTE'S SECRET NOTEBOOK

Owen is a network engineer, and he grins like he has a secret — just like the other guides did. He says the glowing threads carry voices as light. Okay Owen... show me how! ✨

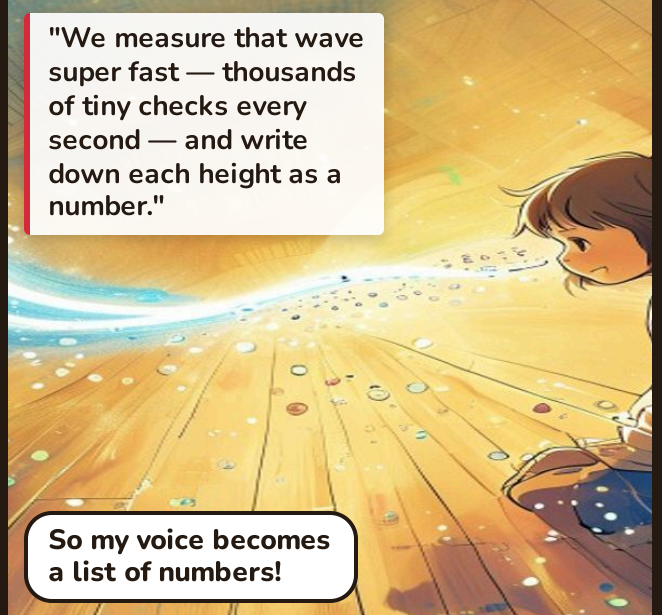


## A VOICE BECOMES A NUMBER



Owen spoke into his headset and soft ripples spread from his lips. "A voice is just wiggles in the air — a wave. Watch what we do with it."

A voice is a **WAVE**?



"We measure that wave super fast — thousands of tiny checks every second — and write down each height as a number."

So my voice becomes a list of numbers!



"Now your voice isn't a sound any more," Owen smiled. "It's a neat stream of numbers a machine can carry."

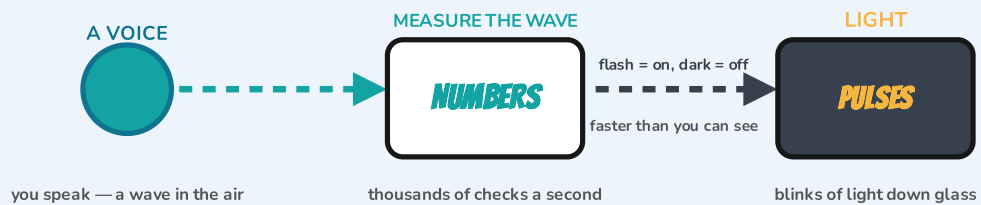
My 'hello' turned into counting!

## ★ WORTH REMEMBERING

Here's the first secret! 💡 A voice is a **wave** in the air. A machine measures that wave thousands of times a second and writes each measurement as a **number**. Your voice becomes a tidy stream of numbers — and numbers are easy to send.



### ***A VOICE BECOMES A PULSE OF LIGHT***



The light bounces down a glass thread across the ocean → back into NUMBERS → back into a VOICE.  
The voice you hear set out as light just moments ago, oceans away — all in a heartbeat.

A voice is measured into numbers, the numbers become pulses of light, the light races down glass and turns back into a voice.





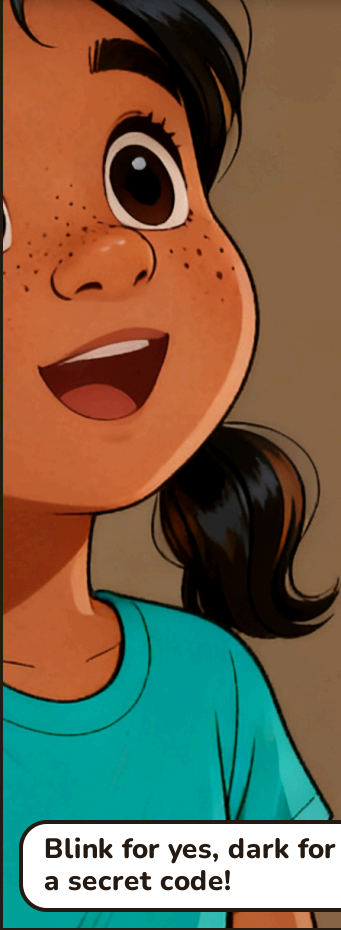
#### CHARLOTTE'S SECRET NOTEBOOK

A voice is a wave. We measure it thousands of times a second and turn each measurement into a NUMBER. So a voice becomes a stream of numbers.



# A NUMBER BECOMES LIGHT

"Now the clever bit," said Owen. "We turn those numbers into flashes of light — a flash for on, dark for off."

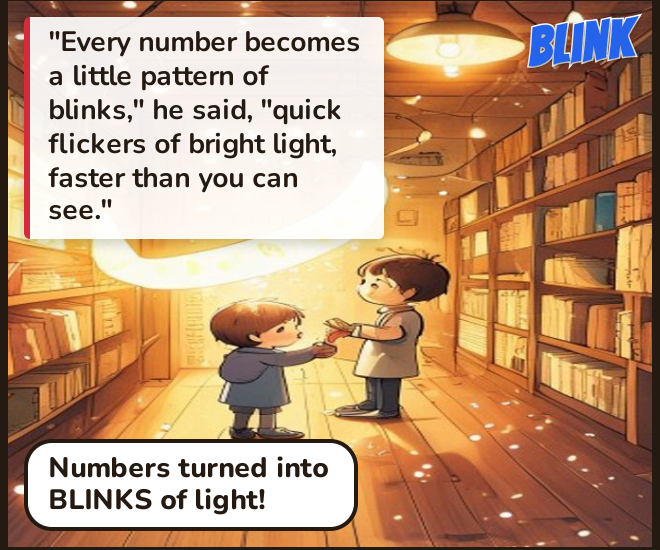


Blink for yes, dark for no — a secret code!



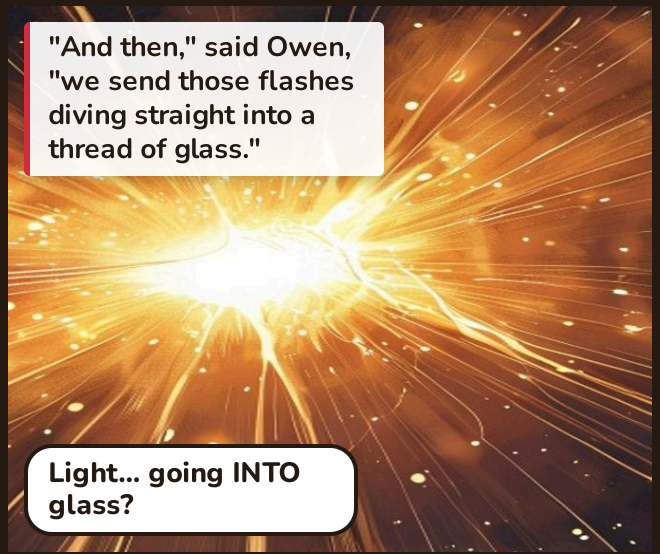
"Every number becomes a little pattern of blinks," he said, "quick flickers of bright light, faster than you can see."

**BLINK**



Numbers turned into **BLINKS** of light!

"And then," said Owen, "we send those flashes diving straight into a thread of glass."



Light... going **INTO** glass?

## ★ WORTH REMEMBERING

The stream of numbers is turned into **pulses of light** — a flash means one, dark means zero. Those flickers blink far too fast for your eyes, and they carry your whole voice. Then they're fired into a thin thread of **glass**.



## CHARLOTTE'S SECRET NOTEBOOK • SOLVED (PART 1)

Numbers get turned into flashes of light — flash for ON, dark for OFF, blinking too fast to see. Then the light is sent into a thread of glass. Voice → numbers → LIGHT! ✨

# THE GLASS THREAD

Owen held up a thread of glass as thin as a hair. Inside it, a pulse of light streaked along in a blur.

ZZZAP

"The light bounces along the smooth inside walls," he said, "never leaking out — so it races for miles and miles without getting lost."

So THIN — and the light zooms right through it!

It's bouncing like a ball down a slide!

## ★ WORTH REMEMBERING

This glass thread is called **fibre**. Light poured in at just the right angle **bounces along the smooth inner walls** and never escapes — so it can race for hundreds of miles, even under whole oceans, carrying your voice as light.

## 📖 CHARLOTTE'S SECRET NOTEBOOK

The glass thread is called FIBRE. Light bounces along its smooth inside walls and never leaks out, so it can travel miles and miles — even under the sea. 💡🔍



## A VOICE AGAIN

At the far end, the flashes of light spilled out and unfolded back into a stream of numbers.

"And the numbers become a wave again," said Owen, "which a little speaker wiggles into sound. Your friend hears your voice!"

The light is turning back into numbers!

So THAT'S how they hear me!

## ★ WORTH REMEMBERING

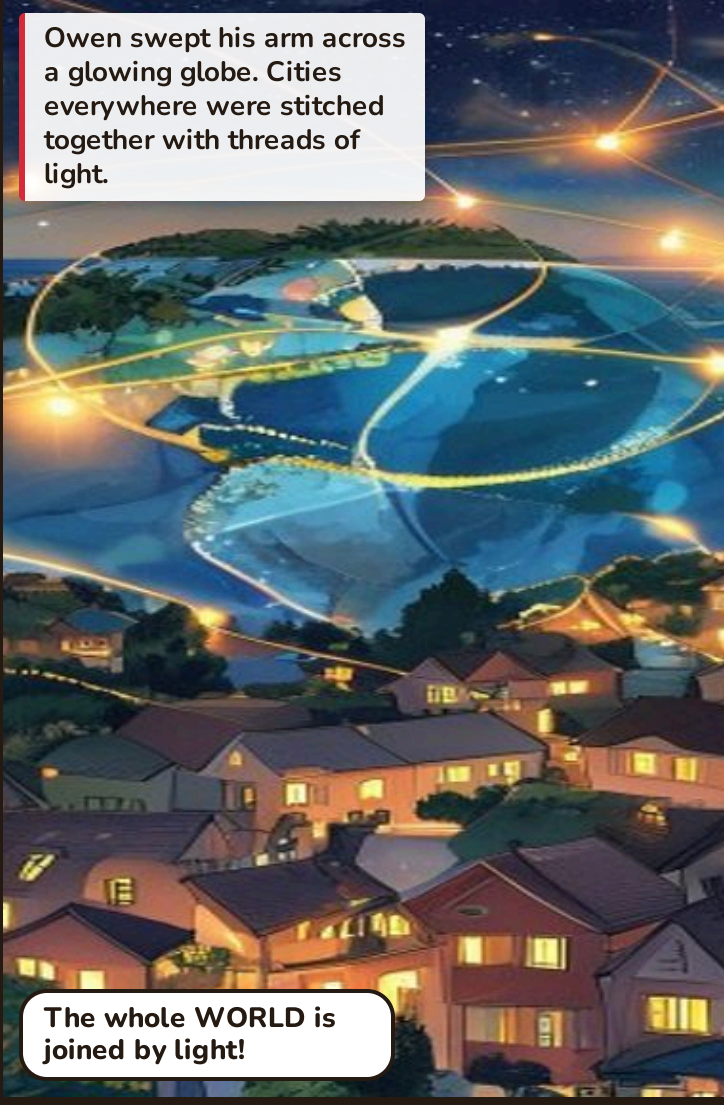
At the other end it all runs backwards: light → numbers → a wave → a **voice** again, out of a speaker. Voice → numbers → light → glass → light → numbers → voice — and the whole journey happens in a **heartbeat**. What a trip!



## CHARLOTTE'S SECRET NOTEBOOK • SOLVED!

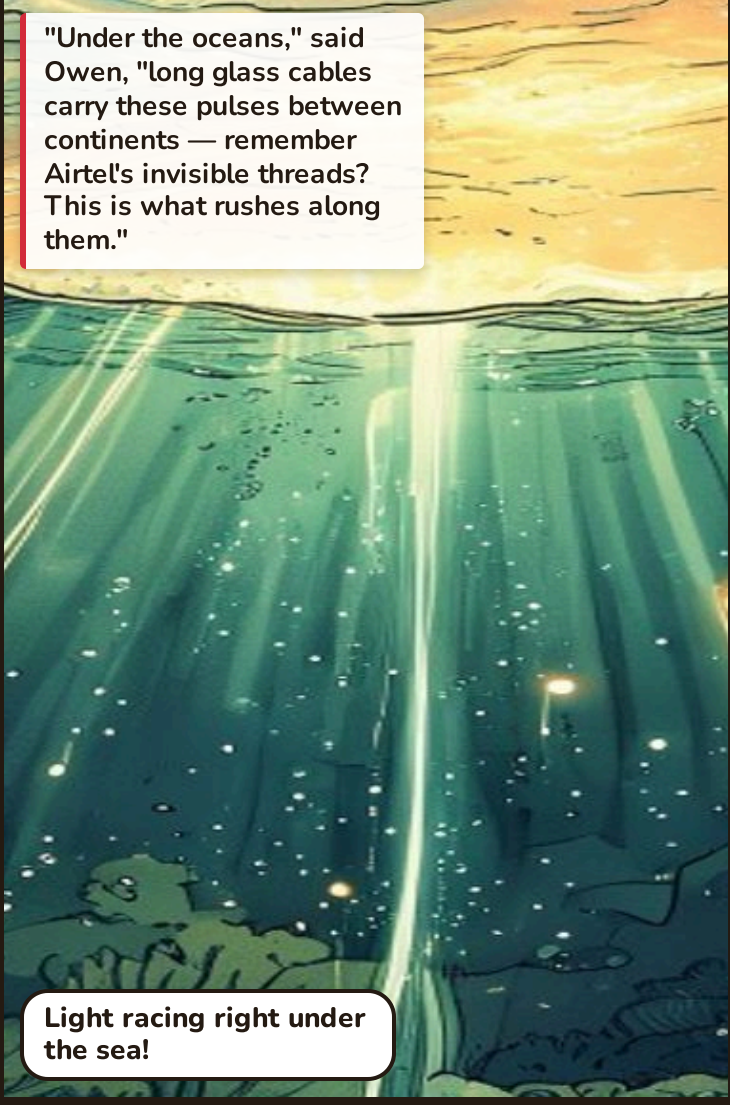
At the far end: light becomes numbers, numbers become a wave, the speaker turns it back into a VOICE. The whole chain: VOICE → numbers → light → glass → light → numbers → VOICE! ⚡

## ACROSS THE WHOLE WORLD



Owen swept his arm across a glowing globe. Cities everywhere were stitched together with threads of light.

The whole WORLD is joined by light!



"Under the oceans," said Owen, "long glass cables carry these pulses between continents — remember Airtel's invisible threads? This is what rushes along them."

Light racing right under the sea!

## ★ WORTH REMEMBERING

This isn't a small thing. Threads of light run **under the oceans**, linking continent to continent, so a child in one country can talk to a grandparent in another in a heartbeat. Book 4's Airtel strung invisible threads — and it's **light** that races along them.

## 📖 CHARLOTTE'S SECRET NOTEBOOK

Glass cables run under the oceans, carrying pulses of light between continents. That's how a voice crosses the whole world in a blink. Just like Airtel's invisible threads! 🌐💡



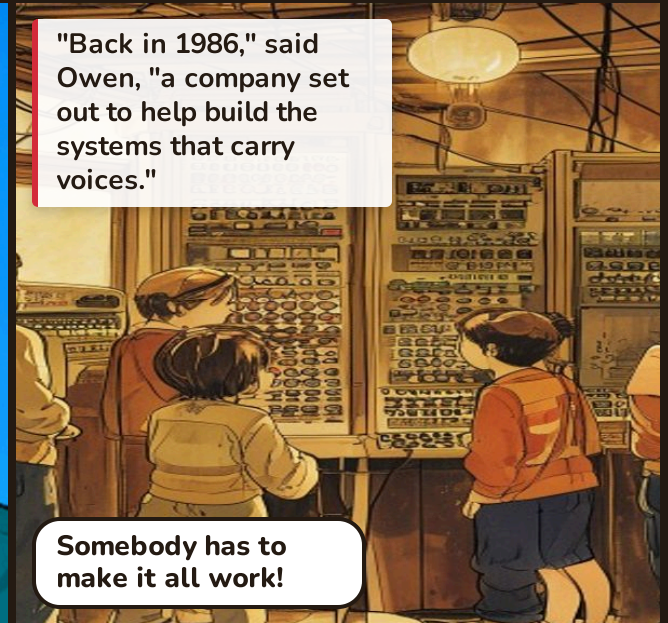
## THE COMPANY BEHIND THE VOICE

Owen led Charlotte to a viewpoint over a huge control centre and tall telecom towers.



But who **BUILDS** and looks after all of this?

"Back in 1986," said Owen, "a company set out to help build the systems that carry voices."



Somebody has to make it all work!

"It grew and grew," he said, "until it helped run the networks that phone companies all over the world depend on."



They keep the whole world talking!

### ★ WORTH REMEMBERING

A "company" can be a giant shared job. **Tech Mahindra** began in 1986 and grew into a builder and runner of the **systems telecom companies lean on** — the software and know-how that keep calls and messages flowing worldwide.





#### THE STORY IN TIME

**1986**

A company sets out to help build the systems that carry voices.

**Over  
decades**

It grows into a builder and runner of telecom networks used around the world.

**Today**

Its engineers help keep the world's calls and messages flowing.

**Tomorrow**

It keeps learning the newest tech — faster networks and smarter software. 



#### CHARLOTTE'S SECRET NOTEBOOK

Tech Mahindra (1986) builds and  
RUNS the systems that telecom  
companies depend on — the software  
and know-how behind the calls. It  
helps keep the whole world talking. 🏆



## THE CASTLE OF KNOW-HOW

Two kind old men appeared with a glow. Warren pointed at a castle standing on a field of glowing network towers. "What keeps rivals out, Charlotte?"



Walls! But what kind?



## THE CASTLE WALLS · WHY RIVALS CAN'T COPY IT



### Wall One: Deep

#### Know-How

Running a telecom network takes years of hard-won knowledge. You can't just pick it up overnight — and that deep skill is very hard to copy.



### Wall Two: Long

#### Contracts

Telecom companies sign long deals and let the systems get woven deep into how they work. Swapping them out would be slow and risky — so they stay.



### Wall Three: Woven

#### Into Everything

When networks whole countries rely on run on your systems, you're hard to replace quickly. The calls simply must not stop.



### The Crack in the Wall

Technology shifts FAST. Yesterday's clever skill can go stale in a few years. A company like this must keep learning, or the world races ahead without it.



Charlie tapped his head. "Don't just ask how to WIN. Ask how you'd LOSE — then don't do that. Invert!"



Think backwards?

★ WORTH REMEMBERING

**Charlie's Inversion:** to keep a tech giant strong, imagine how it could FADE — resting on old skills while faster new technology arrives, or letting a network fail — then carefully avoid each one, and keep learning the newest tricks early.



Warren nodded. "Deep know-how and long contracts make a fine castle — so long as it keeps learning, because in tech the walls can crumble fast."



I SEE the whole picture!



CHARLOTTE'S SECRET NOTEBOOK • THE BIG SECRET

Tech Mahindra is hard to copy: DEEP know-how, LONG contracts, and it's woven into everything. But tech changes FAST — yesterday's skill can go stale, so it must keep learning. Charlie's trick: picture how you'd lose (resting on old skills), then never do it. Invert! 🏰

# THE VOICE ON THE OTHER END

Charlotte woke in her own bed. The humming hub was gone... but her little phone screen glowed softly.



Was it real? It FELT real...

On the diary's page, a new line glowed — as if Grandpa Ben wrote it just for her.



"Now you know what races along the invisible threads. Well done."

She called a friend far away. "Hi!" came the voice — and Charlotte grinned, knowing it had just travelled as light across the world.



There's a whole light-journey behind every 'hello'!

## ★ WORTH REMEMBERING

Next time you hear a voice on the other end, you'll know the secret: it flew to you as **light**. Your voice became numbers, became flashes of light, bounced down a glass thread across the ocean, and became a voice again — in a heartbeat. That's **the voice on the other end**. 💡🧠





CHARLOTTE'S SECRET NOTEBOOK • WHAT I LEARNED

- ① A voice is a wave; measured fast, it becomes a stream of NUMBERS.
- ② Numbers become flashes of LIGHT — flash for on, dark for off.
- ③ Light bounces down a glass FIBRE thread, even under oceans, then turns back into a voice.
- ④ It all happens in a heartbeat, joining the whole world.
- ⑤ Tech Mahindra builds and runs those systems; but Charlie's trick — picture how you'd lose (resting on old skills), then keep learning. 🧡



## ***OUR PHILOSOPHY***

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***At Omaha India, we believe the greatest gift we can give a child is the ability to think.***

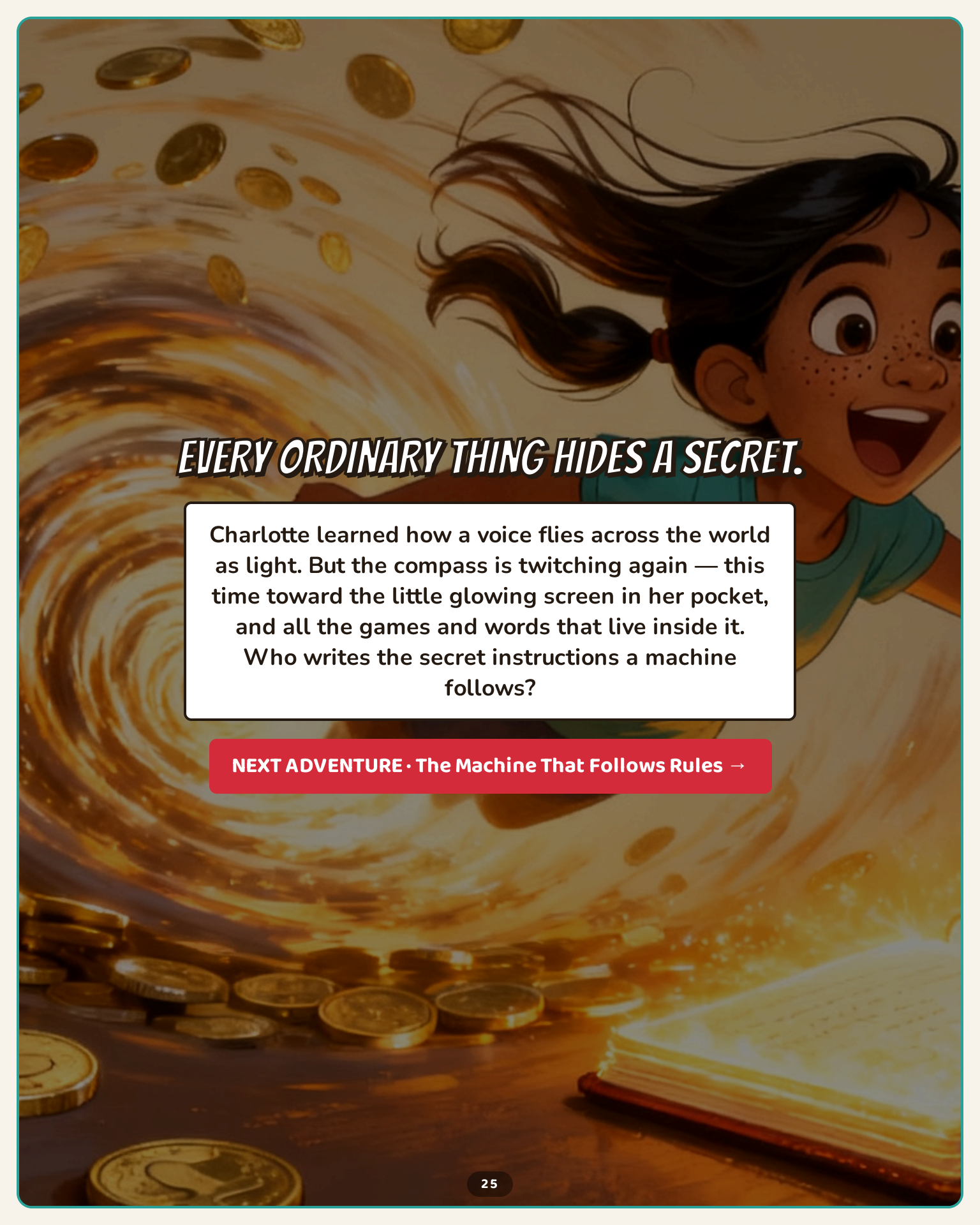
Inspired by the multidisciplinary thinking of **Charlie Munger** and the rational, long-term philosophy of **Warren Buffett**, our comics connect science, technology, business, history, and human behavior to show how the real world works.

Every story begins with a scientific idea and follows its journey into innovation, industry, and the businesses that create value for society. Along the way, children learn that great companies are built on curiosity, experimentation, integrity, and long-term thinking.

Our goal is not to teach children how to invest, but to help them build the mental models needed to understand the world, ask better questions, and think independently.

The companies featured in our *Nifty 50 Comics* are educational case studies—not investment recommendations. They demonstrate how knowledge, innovation, and perseverance can transform ideas into products, services, and enduring businesses.

***LEARN THE SCIENCE. • UNDERSTAND THE BUSINESS. • THINK FOR LIFE.***



## ***EVERY ORDINARY THING HIDES A SECRET.***

Charlotte learned how a voice flies across the world as light. But the compass is twitching again — this time toward the little glowing screen in her pocket, and all the games and words that live inside it. Who writes the secret instructions a machine follows?

**NEXT ADVENTURE • The Machine That Follows Rules →**