

The Great Company Adventures • Book 5 of 50

BOEING THE BIRD WITH SIX MILLION PIECES

A curious girl, three wise mentors, and the metal bird that carries the whole world
across the sky.

"Discovering the businesses that built the modern world"

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THE GREAT COMPANY ADVENTURES

Discovering the businesses that built the modern world.

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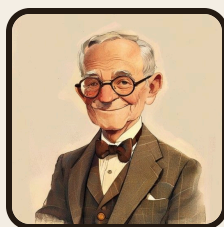
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MEET THE CHARACTERS



SIRI



BEN



WARREN



CHARLIE



WREN

A curious girl named Siri, a wise old teacher named Ben, and his student Warren with Warren's partner Charlie — together discovering the businesses that built the modern world, one adventure at a time.

THE GLOBAL 50

One great company per volume · Fifty adventures, one modern world

SPACE & EXPLORATION

1. SpaceX — *"The Fire That Comes Back"*

MANUFACTURING & ENGINEERING

2. Toyota — *"The River That Builds Cars"*
3. Siemens — *"The Factory That Builds Factories"*
4. Caterpillar — *"The Machines That Move Mountains"*
5. Boeing — *"The Bird With Six Million Pieces"*
6. Airbus — *"The Plane Four Countries Built"*

ENERGY & INDUSTRY

7. Shell — *"The Sunlight Buried at Sea"*
8. ExxonMobil — *"The Ancient Sunlight Machine"*
9. GE Vernova — *"The Wheel That Makes Lightning"*

COMMUNICATION

10. AT&T — *"The Voice Inside the Wire"*
11. Qualcomm — *"The Whisper in the Air"*
12. Ericsson — *"The Towers That Talk"*

TRANSPORTATION

13. Tesla — *"The Car With No Engine"*
14. John Deere — *"The Machine That Feeds the World"*
15. UPS — *"The Promise in a Brown Truck"*

INFRASTRUCTURE

16. ABB — *"The Arms That Never Tire"*
17. Schneider Electric — *"The Guardian of the Grid"*

MATERIALS

18. Corning — *"The Thread of Light"*
19. DuPont — *"The Inventors of Almost Everything"*

SCIENCE & TOOLS

20. 3M — *"The Factory of Ten Thousand Ideas"*
21. Bosch — *"The Spark in Every Machine"*
22. Honeywell — *"The Dial That Tames the Weather"*

MEDICINE & BIOTECHNOLOGY

23. Pfizer — *"The Shield in a Tiny Vial"*
24. Roche — *"The Detectives of the Blood"*

25. Novo Nordisk — *"The Key to a Billion Locks"*

26. Johnson & Johnson — *"The Little Bandage That Grew"*

FOOD & AGRICULTURE

27. Nestlé — *"The Cup That Wakes the World"*
28. Cargill — *"The Invisible Harvest"*

FINANCE & COMMERCE

29. Visa — *"The Handshake Inside the Card"*
30. Mastercard — *"The Two-Second Trust Machine"*
31. Walmart — *"The Store That Never Runs Out"*
32. Costco — *"The Treasure Warehouse"*
33. FedEx — *"The Race Against the Sun"*

CONSUMER INNOVATION

34. Disney — *"The Factory of Dreams"*
35. LEGO — *"The Brick That Builds Anything"*
36. Sony — *"The Pocket Full of Music"*
37. Coca-Cola — *"The Secret in the Red Can"*
38. Nike — *"The Shoe That Learned to Fly"*

LUXURY & CRAFTSMANSHIP

39. Rolex — *"The Heartbeat on Your Wrist"*
40. LVMH — *"The Suitcase That Conquered the World"*

COMPUTING & DIGITAL CIVILIZATION

41. Apple — *"The Glass That Thinks"*
42. Microsoft — *"The Invisible Machine"*
43. Google — *"The Library With No Walls"*
44. Amazon — *"The Box That Crossed the World"*
45. NVIDIA — *"The Brain Made of Sand"*
46. Intel — *"The First Thinking Chip"*
47. TSMC — *"The Invisible City"*
48. ASML — *"The Machine That Prints With Light"*
49. OpenAI — *"The Machine That Learned to Talk"*

THE FINAL DISCOVERY

50. The Company Yet to Be Built — *"The Adventure You Will Build"*

THE BIRD THAT WOKE AT MIDNIGHT

Midnight. Homework: unfinished. And Grandpa Ben's old brass compass? Spinning like crazy.

SPIN

The needle stopped. Pointing past the window — at a jet crossing the moon. And a paper plane on the sill.

YOU? You're just... folded paper?

The magic diary flipped open by itself. Fresh ink. Grandpa's handwriting.

It's never done THIS before...

"Time to meet the businesses that built the modern world. Start with the bird made of six million pieces."

★ WORTH REMEMBERING

Look up when a plane crosses the sky. It weighs as much as forty elephants. It holds hundreds of people. Yet it floats on nothing but **air**. So... **who taught a metal whale to fly?**

The window rippled. A whirlpool of blue wind grabbed her and pulled her out into the night.

WHOOSH



Here we GOOO!



SIRI'S SECRET NOTEBOOK

New mystery! ✈️

- ① How does something heavier than a house FLOAT on thin air?
- ② Grandpa says this thing built one of the world's greatest companies. A PLANE?! Prove it.

THE PUZZLE OF SIX MILLION PIECES



She landed in a hangar where a whole airliner floated in pieces — thousands of them, frozen mid-explosion.

It's a **GALAXY** of tiny parts!



A young engineer plucked a rivet smaller than a pea out of the air. "I'm Wren. I help fly the first of every new plane."

A test pilot's engineer?
WHOA.

Wings. Engines. A silver tube of rings. Miles of wire like veins. A tail like a shark fin.

How many pieces?!

A big jumbo jet?
Six million. From dozens of countries.

★ WORTH REMEMBERING

Six million parts, and if even **ONE** fails at the wrong moment, lives are at stake. So every single piece is tested, traced and trusted. A plane is really **six million small promises**.

📖 SIRI'S SECRET NOTEBOOK

6,000,000 parts. Dozens of countries. One machine. 🔍 Wren says every part hides a secret. First up: how does a wing hold up forty elephants?

THE TRICK OF FALLING UPWARD

3a The secret: a wing throws air DOWN

"Everything starts with the wing," said Wren. Curved on top, flatter below. Air pours over it.



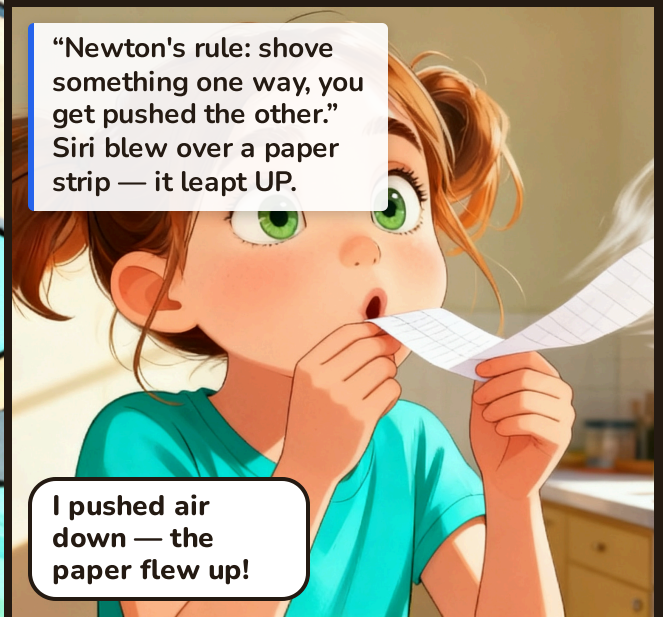
So the shape is the whole magic?

"Watch the air LEAVE the wing. It comes out aimed downward. The wing shoves a river of air toward the ground."



It's throwing the sky DOWNWARD!

"Newton's rule: shove something one way, you get pushed the other." Siri blew over a paper strip — it leapt UP.



I pushed air down — the paper flew up!

★ WORTH REMEMBERING

Here's the honest secret of flight: a wing constantly **throws air downward**, so the air throws the wing **upward**. Push the sky down hard enough, and the sky holds you up. That upward push is called **lift**. 🪶

Wren cracked the car window. Siri held her flat hand in the wind and tilted it. It shot upward.



My HAND is a wing!

"Tilt the wing a little into the wind — that's angle of attack. More tilt, more air shoved down, more lift. Up to a point."



So the pilot aims the wing at the sky!

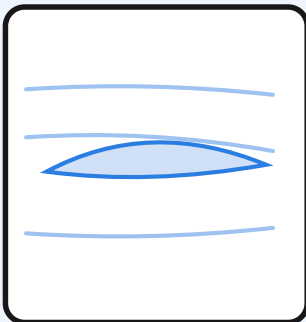
And the engines keep the wind roaring past.

★ WORTH REMEMBERING

No forward motion, no air rushing past, no lift. That's why planes race down a runway first: a wing only works when **air is pouring over it fast**. Stop the air and the magic stops. ⚡

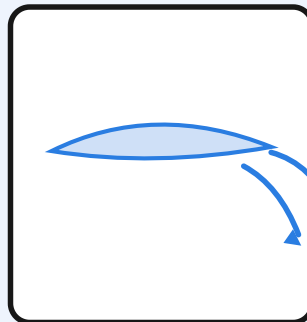


HOW A WING MAKES LIFT



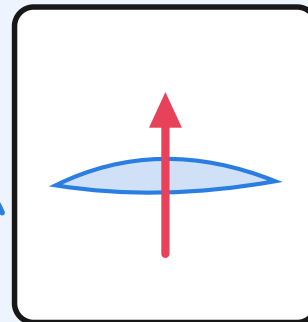
AIR SPLITS AROUND IT

curved top, flatter bottom



IT THROWS AIR DOWN

the wing bends the sky downward



AIR PUSHES IT UP

that upward push = LIFT



SIRI'S SECRET NOTEBOOK

- ① Wings make lift by throwing air DOWN → air pushes them UP (Newton!). 🪶
- ② Tilt = angle of attack = more lift. Need FAST air, so planes sprint before they leap. ⚡

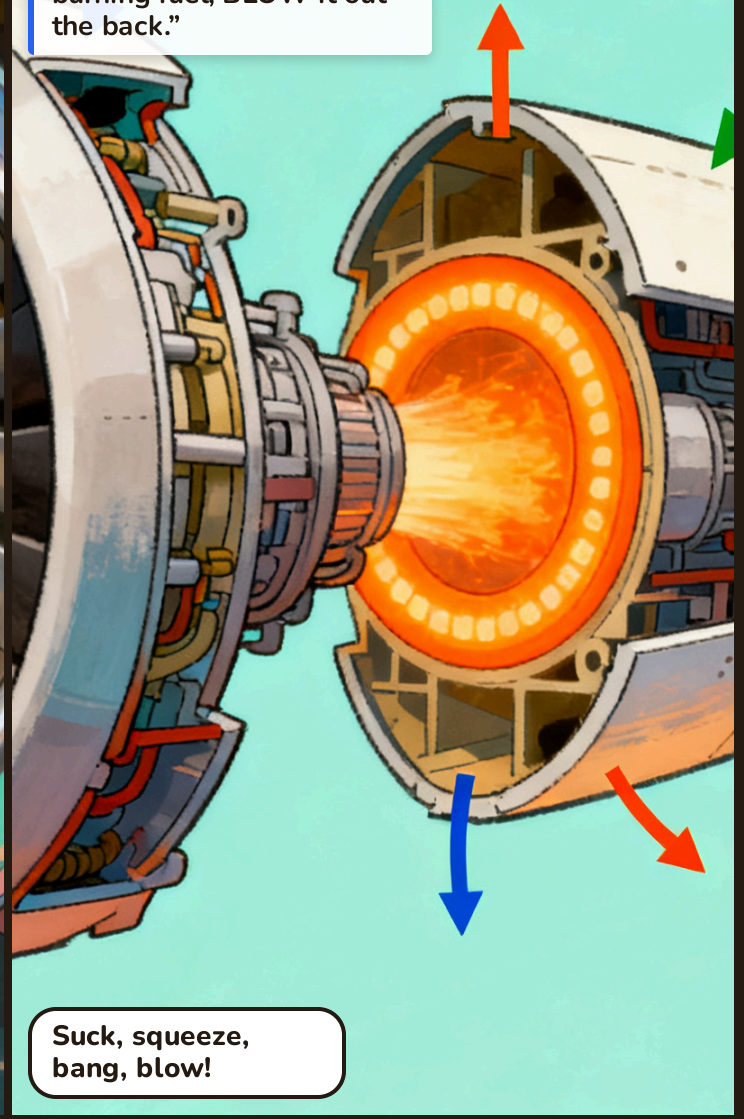
THE FIRE THAT PULLS

Next: the engines. Each a giant silver fan, taller than Siri, humming with hidden fire.



It's a metal hurricane on a stick!

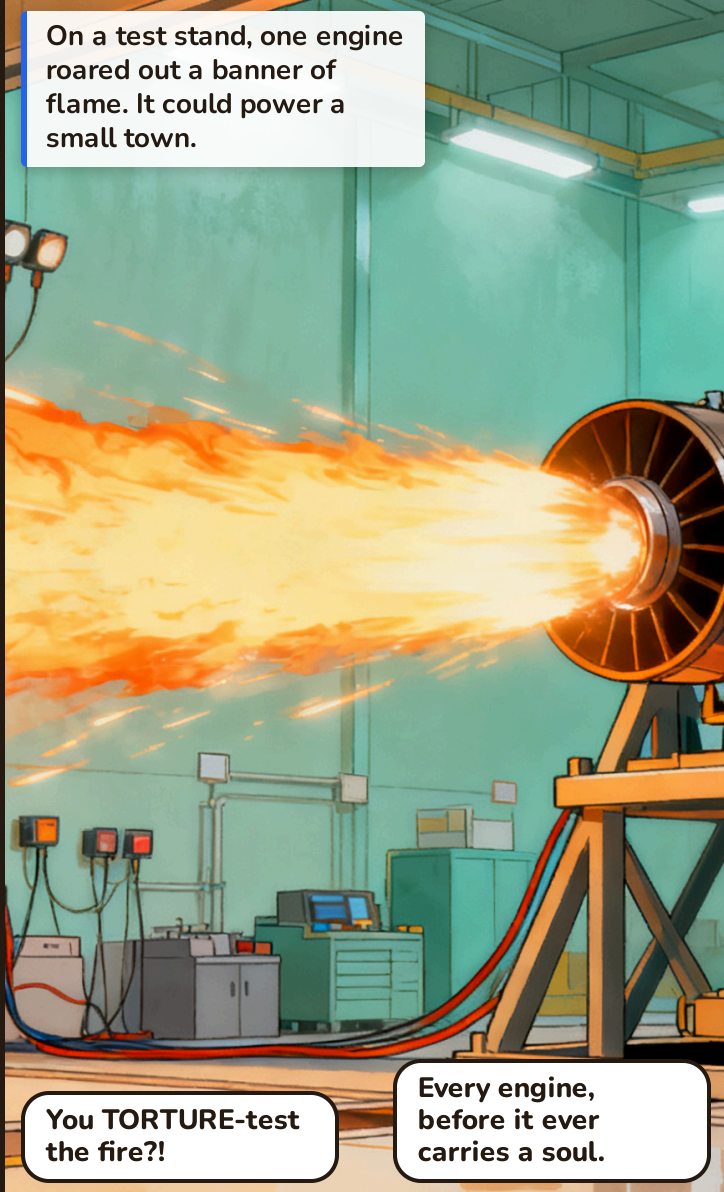
Wren opened one up. "Four steps, over and over: SUCK the air in, SQUEEZE it small, BANG it with burning fuel, BLOW it out the back."



Suck, squeeze, bang, blow!

★ WORTH REMEMBERING

A jet engine is a fire that never stops. It grabs cold air, crushes it, lights it with a mist of fuel, and hurls the hot blast out the back — thousands of times faster than it came in. 🔥



On a test stand, one engine roared out a banner of flame. It could power a small town.



“And why does flinging air backward move the plane FORWARD? Same rule as your paper.” Newton again.

You TORTURE-test the fire?!

Every engine, before it ever carries a soul.

Throw the air back — get pushed ahead!

★ WORTH REMEMBERING

It's the exact trick a rocket, a squid and a deflating balloon all use. Throw mass one way, and you're pushed the other. The engine's roar is really just **air being thrown backward, very very hard.** 🚀

📖 SIRI'S SECRET NOTEBOOK

Jet engine = SUCK · SQUEEZE · BANG · BLOW. Throws hot air back → plane pushed forward (Newton AGAIN!). Same rule as a balloon zipping around the room. Physics has favorites. 🔥

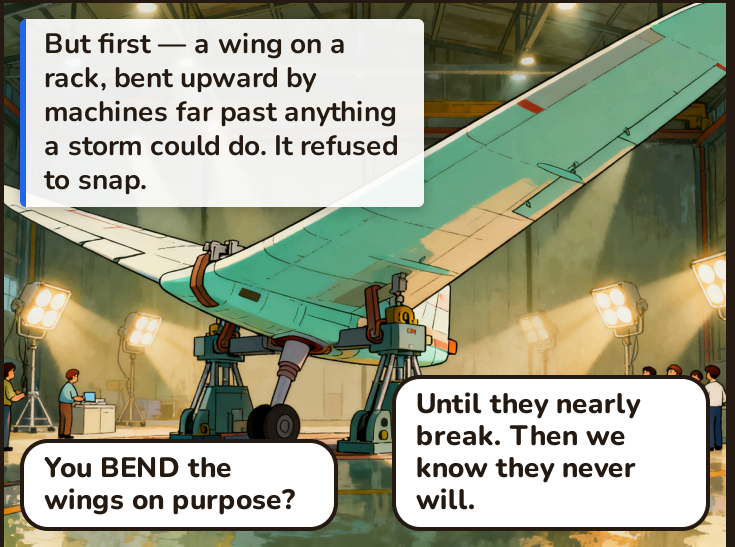
THE LONGEST ASSEMBLY IN THE SKY

Wren unrolled a world map. Golden threads from everywhere, all meeting at one airplane.



The whole PLANET is helping!

But first — a wing on a rack, bent upward by machines far past anything a storm could do. It refused to snap.



You BEND the wings on purpose?

Until they nearly break. Then we know they never will.

A door opened onto a hall that stretched to the horizon. Whole planes in a row, growing rib by rib.



How many people build ONE plane?

Count everyone? Hundreds of thousands of hands.

At dawn, a finished jet rolled out for its very first flight. Years of work, ready to leave the ground.



It's ALIVE now!

★ WORTH REMEMBERING

Here's the mind-bender: **nobody on Earth knows how to build a whole plane.** Not one person. The wing team can't wire a cockpit; the engine team can't sew a seat — and a great company turns a million skills into one bird.

📖 SIRI'S SECRET NOTEBOOK

Wings tested till they nearly SNAP. Hundreds of thousands of hands. 🌍 Nobody knows the whole recipe. So who's the CONDUCTOR of this orchestra? 🎵

WHY THE AIRLINES SAY YES

"A plane shrinks the world," said Wren. Oceans that took weeks now take hours. Families reunite by dinnertime.

"And when an airline buys a jet, it flies for thirty years — needing parts, checks and help the whole time."

So you don't sell a plane once — you sell a friendship!

"Pick one plane family, and you train pilots and mechanics around it. More airlines flying it means more experts. Round and round."

It doesn't just fly — it makes Earth SMALL!

The bridge gets stronger as more cross it!

★ WORTH REMEMBERING

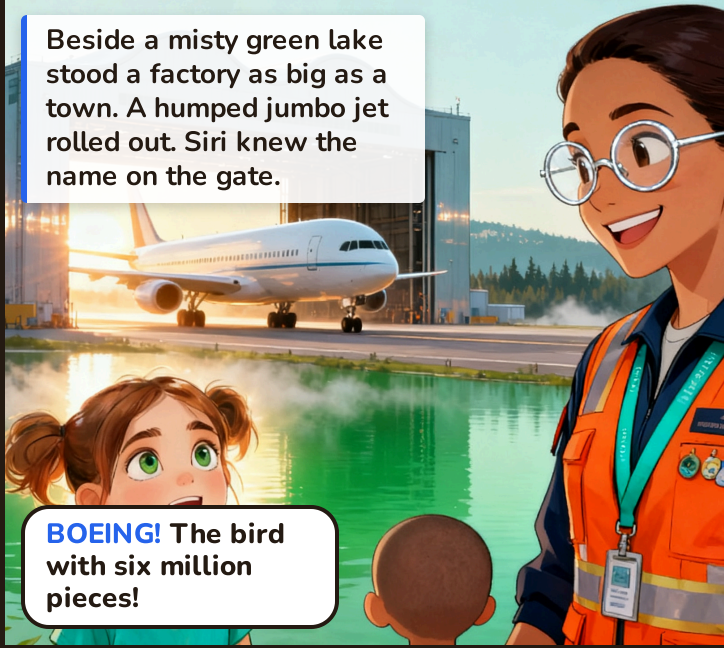
Why would an airline spend a fortune on a jet? ① Nothing else moves people so far, so fast, so safely — massive **value**. ② Thirty years of parts and service tie them close. ③ Shared plane families make pilots and mechanics easy to find. 🛩️

📖 SIRI'S SECRET NOTEBOOK

Airlines don't buy metal — they buy 30 years of range, safety and support. Fleets stick together: more of one plane → more trained experts → more airlines want it. Grandpa's rule: find what customers can't easily switch away from.

THE BIRD BORN BY A LAKE

Beside a misty green lake stood a factory as big as a town. A humped jumbo jet rolled out. Siri knew the name on the gate.



BOEING! The bird with six million pieces!

"It began in 1916. A lumber man named William Boeing built a little wood-and-cloth seaplane by this very lake."



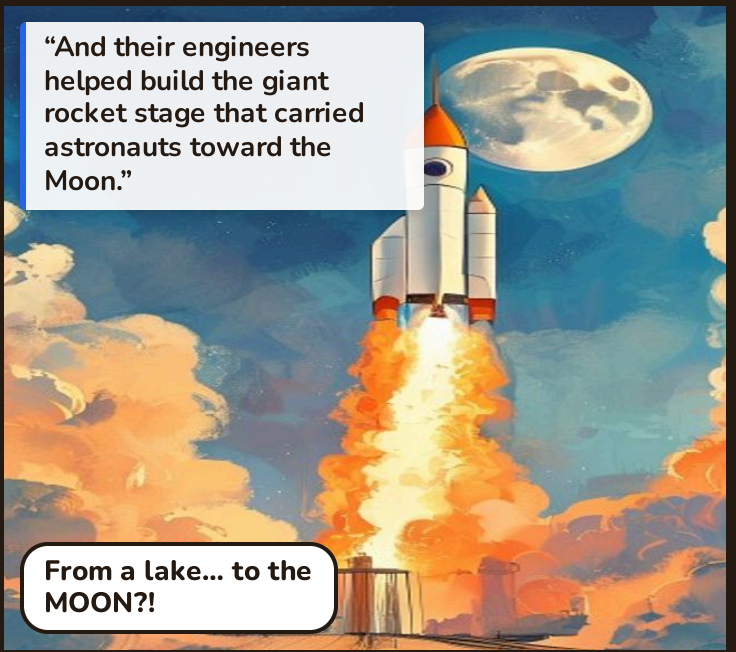
A LAKE?! From floats to jumbo jets?

"In 1969 they bet the whole company on the 747 — the jumbo jet. Six million parts. The queen of the skies."



They risked **EVERYTHING** on one giant bird?

"And their engineers helped build the giant rocket stage that carried astronauts toward the Moon."



From a lake... to the **MOON?!**

★ WORTH REMEMBERING

The boldest habit in building: Boeing kept betting the whole company on a bigger, braver plane. The 747 nearly bankrupted them — then ruled the skies for fifty years. **Sometimes you must risk it all to leap ahead.**



THE STORY IN TIME

1916

William Boeing builds a wood-and-cloth seaplane by a Seattle lake.

1933

The Boeing 247 — one of the first modern all-metal airliners.

1938

The Model 307 — the first airliner with a pressurized cabin.

1958

The 707 opens the Jet Age — oceans crossed in hours.

1969

The 747 'Jumbo Jet' flies — a bird with six million pieces.

1969

Boeing-built rockets help carry astronauts toward the Moon.

1994

The 777 — designed on computers before a single part was cut.

2011

The 787 Dreamliner — wings and body woven from carbon fiber.

Today

Boeing jets have carried billions of people around the world. ✈️

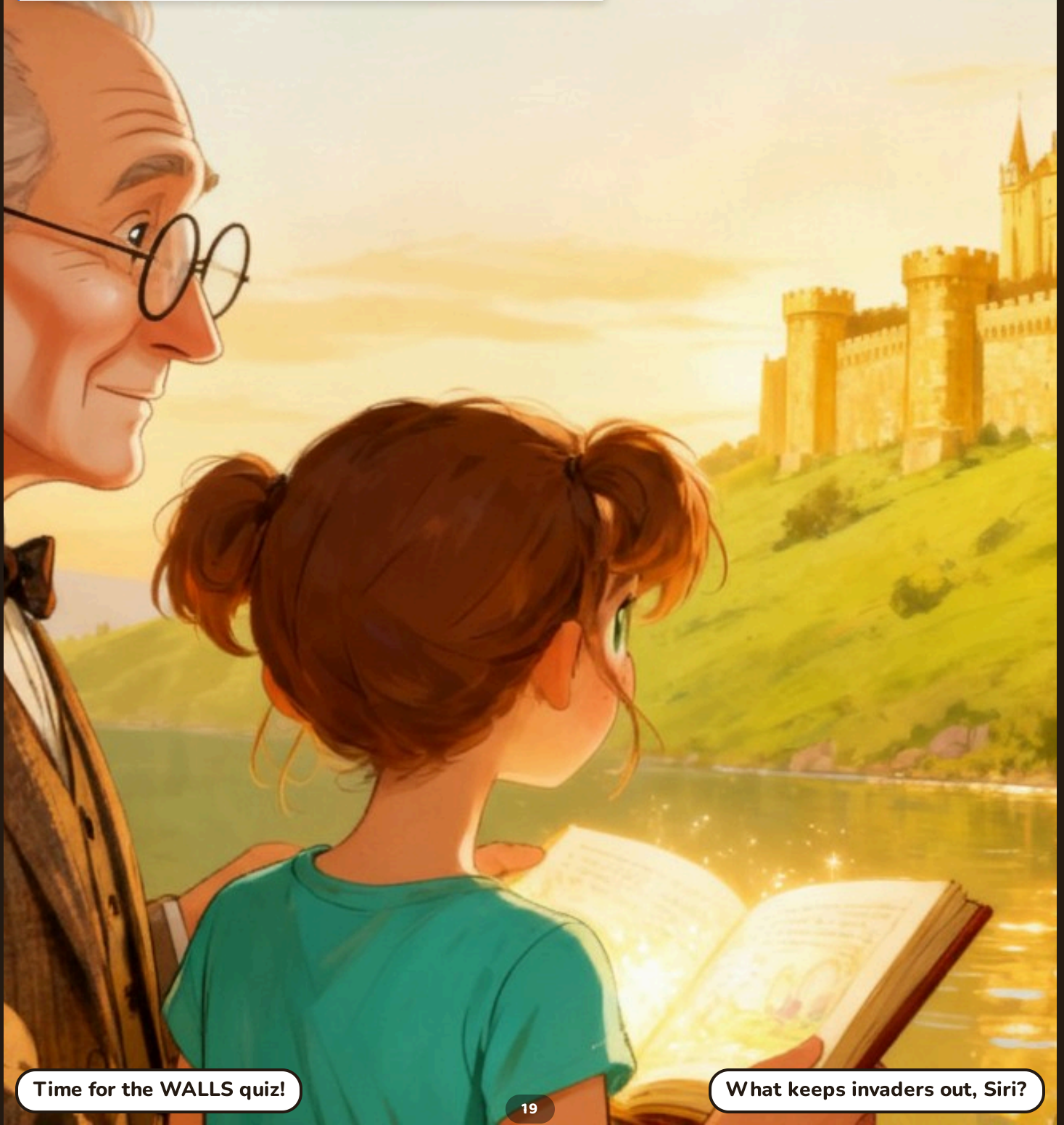


SIRI'S SECRET NOTEBOOK

Lake seaplane (1916) → all-metal airliner → Jet Age → the 747 gamble → rockets to the Moon → carbon-fiber Dreamliner. Their habit: bet big, fly further. ✈️

THE CASTLE IN THE SKY

A warm glow. A smell of cherry cola. Warren and Charlie, the partners from Omaha, stood before a castle in the clouds.



Time for the WALLS quiz!

What keeps invaders out, Siri?



THE CASTLE WALLS • WHY RIVALS CAN'T COPY IT



Wall One: A Century of Know-How

Making six million parts fly safely for thirty years takes knowledge no one can buy in a hurry. Boeing spent a hundred years learning it.



Wall Two: The Certificate of Trust

Every new plane earns years of testing and a regulator's blessing before one passenger boards. You cannot rush trust into the sky.



Wall Three: The Lifelong Bond

Once an airline picks a plane family, its pilots, mechanics and spare parts are all built around it. Switching means starting over.



Wall Four: The Club of Two

Big jets cost so much to build that only two companies on Earth make them. A newcomer needs a decade and a fortune before its first sale.



The Cracks in the Clouds

When trust breaks — a grounded jet, a tragic flaw — the whole castle shakes. One giant program can swallow a fortune. Rivals and trade fights never sleep. Castles in the sky need defending — daily.

Charlie tapped his glasses. “My trick: don't ask how to WIN. Ask what would DESTROY it. Then don't do that. **Invert, always invert.**”



Find the ways to fall... then don't!

★ WORTH REMEMBERING

Charlie's checklist for ruining a plane-maker: let safety slip. Bet the company on a bad design and miss. Let the rival leap ahead. Anger the rule-makers. Now — just never do those. Worry, turned into a to-do list.

Warren raised his cola. "A business the world cannot fly without, behind walls a century deep. But every bit of it rests on one promise: it will bring you home safe. Guard that above all."



So the treasure isn't the plane. It's the TRUST.

SIRI'S SECRET NOTEBOOK

Walls: know-how  + trust certificate  + lifelong bond  + club of two . Cracks: safety slips, bad-bet programs, rule-makers, tough rivals.
Charlie: INVERT. Warren: the whole fortune is one promise — safe. 

THE NEXT THIRTY YEARS

"Last question," said Wren. "What does flying become in thirty years?" A tomorrow-airport: quiet electric planes, wide blended wings, green hydrogen fuel.



Planes that fly clean and whisper-quiet!

On an airfield fence at dusk, Siri thought it through the way Grandpa taught her.



Don't bet on the shape. Bet on the NEED.

★ WORTH REMEMBERING

The deep currents: cleaner fuels from plants and sunlight. Hydrogen and battery planes for short hops. Smarter, safer autopilots. Lighter new materials. Wings will change shape — but the human wish to **cross the world and come home?** Forever. 🌍

📖 SIRI'S SECRET NOTEBOOK

2056 watchlist: clean fuels, hydrogen + electric planes, smarter autopilots, lighter materials. Rule: bet on needs, not shapes. (Also: I want a window seat on the whisper-jet.)

COMING HOME

Her own bed. Morning. The compass: quiet. The house: somehow different.

Was it real? It FELT real...

One fresh line dried on the diary's glowing page.

"The modern world is not magic. It is millions of ordinary people doing small hard things, together, for a long time."

At breakfast, a jet drew a white line across the sky. Curved wings. Roaring fire. Six million promises. Hundreds of thousands of hands.

You're the biggest team project in the sky.

She hugged the diary tight. Somewhere far away, a factory by a lake caught the morning sun.

Show me the next one, Grandpa. 💛

★ WORTH REMEMBERING

Next unlock, feel it: a wing throwing the sky downward — fire flung backward to pull you forward — six million parts tested one by one — a century of no-shortcuts guarding one promise. A plane is no longer just a plane. **Nothing, from now on, is just anything.**



SIRI'S SECRET NOTEBOOK · WHAT I LEARNED

- ① Wings make lift by throwing air DOWN.
- ② Jet engines: suck, squeeze, bang, blow.
- ③ Throw mass back → get pushed forward (Newton).
- ④ Nobody knows the whole recipe — companies are conductors.
- ⑤ Value → bond → trust → castle.
- ⑥ Sometimes bet it all to leap ahead.
- ⑦ Invert! And guard the one promise: safe. 🧡



OUR PHILOSOPHY

We believe the greatest gift we can give a child is the ability to think.

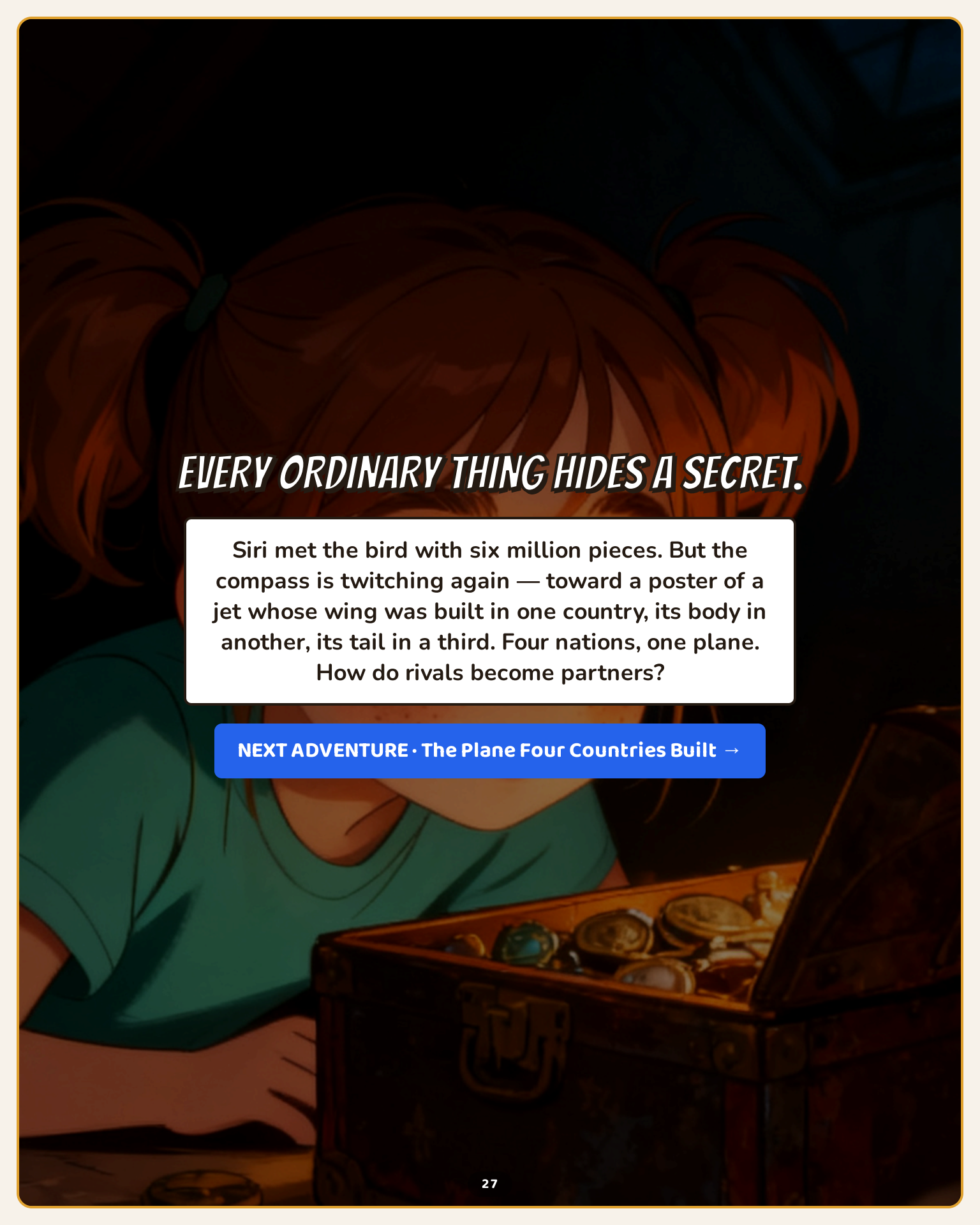
Inspired by the multidisciplinary thinking of [Charlie Munger](#) and the rational, long-term philosophy of [Warren Buffett](#), our comics connect science, technology, business, history, and human behavior to show how the real world works.

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 *The Great Company Adventures* are educational case studies—not investment recommendations. They show how knowledge, innovation, and perseverance turn ideas into products, services, and enduring businesses.

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

A girl with red hair in pigtails, wearing a green shirt, is looking into an open treasure chest filled with gold coins and jewels. The scene is dimly lit, with a dark background.

EVERY ORDINARY THING HIDES A SECRET.

Siri met the bird with six million pieces. But the compass is twitching again — toward a poster of a jet whose wing was built in one country, its body in another, its tail in a third. Four nations, one plane. How do rivals become partners?

NEXT ADVENTURE • The Plane Four Countries Built →