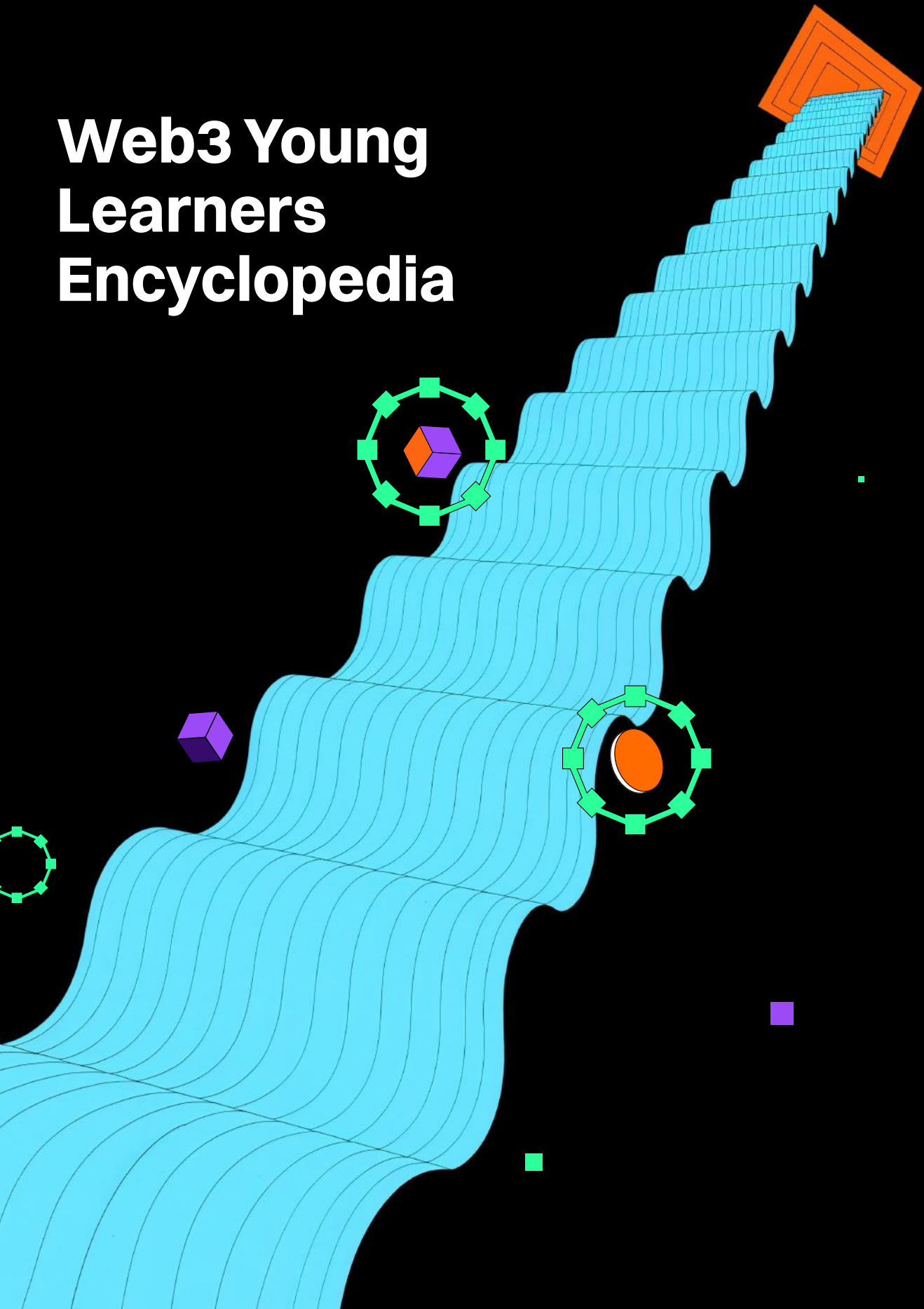


Web3 Young Learners Encyclopedia



Opening Remarks

Welcome to the Web3 Young Learners Encyclopedia!

In this book, you're about to begin a meaningful journey into the world of cryptocurrencies, blockchain, and Web3. These are the technologies shaping how people interact, create, and exchange value online.

You'll explore topics like how digital money works, what makes NFTs different, and how to stay smart and safe in the online world. Each topic is explained in a way that's easy to understand, without skipping the important stuff, because we know teens can handle big ideas.

This book isn't here to teach you how to trade or invest. Instead, it's designed to give you the knowledge you need to understand the digital world around you, ask the right questions, and be a responsible digital citizen.

So, if you're curious, cautious, or just want to keep up with what's next, let's get started.

Let's explore the future from A to Z.

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A Message from Arshelene Lingao

Founder of Cryptita Plays

Hey there, young explorer!

I'm Arshelene, the founder of Cryptita Plays, and I want to welcome you to this amazing journey into the world of crypto and blockchain.

You might be wondering... "Why crypto? Why now?"

Well, here's the truth: the future is digital, and it's already here.

I grew up in a place where access to the internet, technology, and even books wasn't always easy. But curiosity, passion, and a willingness to learn opened doors I never thought possible. Today, I'm building this project for you, the dreamers, the curious minds, and the young leaders of tomorrow.

This book isn't just about coins and computers. It's about possibilities. It's about understanding the world that's shaping around you. And it's about you realizing that even from the simplest beginnings, you can become part of something big. So, flip these pages with wonder. Ask questions. Get creative. Explore. And most importantly, believe that you have a place in this digital future. You truly do.

With heart, hope, and a little bit of crypto magic,
Arshelene Lingao
Founder, Cryptita Plays

Gracy Chen's Message

CEO of Bitget

I've always believed that education is one of the most powerful ways we can shape the future. At Bitget, this belief fuels our Blockchain4Youth initiative, our commitment to making blockchain knowledge simple, fun, and inspiring for young people around the world.

That's why we're honored to collaborate with Cryptita Plays on the Web3 Young Learners Encyclopedia. This book is more than just a creative educational tool; it's a bridge. A bridge that connects the next generation to the world of Web3 through stories, illustrations, and imagination.

What makes this project even more meaningful is its mission to reach students and teachers in underserved areas, where access to blockchain education is still limited. It speaks to the heart of what Blockchain4Youth and Blockchain4Her stand for: empowering the youth and elevating the voices of women who are driving real change in this space.

We hope this book sparks curiosity, creativity, and confidence in every child who opens its pages. Because the future of Web3 belongs to them, and it begins here.

Gracy Chen
CEO of Bitget

Shaping the Future: Blockchain4Youth and Blockchain4Her

Empowering the Next Generation with Blockchain4Youth

Bitget's Blockchain4Youth (B4Y) initiative reflects our commitment to inspiring and empowering young minds through the transformative potential of blockchain. Our goal is to make blockchain education accessible to youth, especially in underserved areas, opening new pathways for learning, creativity, and innovation. As part of our broader mission to foster a blockchain-powered future, B4Y represents a \$10 million investment over five years. It is designed to nurture a generation equipped to lead in a decentralized world.

With over 15,000 participants already engaged, we're empowering Millennials and GenZ as key drivers of a more inclusive, blockchain-friendly future. Together, we're unlocking new solutions and opportunities, giving the next generation the tools and confidence to thrive in the blockchain era. We envision a future where blockchain becomes a catalyst for progress, equity, and positive global change.

Empowering Women in Blockchain with Blockchain4Her

At Bitget, Blockchain4Her (B4H) represents our commitment to building a more inclusive and diverse blockchain ecosystem. By educating, uplifting, and supporting women, B4H creates a space where women can lead, innovate, and thrive in the evolving Web3 landscape. Our mentorship programs play a vital role in guiding women in skill-building, career development, and leadership growth. Through our Alumni Group, participants gain continued access to learning and collaboration. Career-focused events help bridge the gap between education and real-world opportunities.

With over 1,000 participants empowered through the Blockchain4Her Awards, we're proud to support a growing community of changemakers. From regional meetups to accessible educational resources, B4H is building a future where women's voices and contributions are not just included—they are essential. We invite women around the world to join us in shaping the future of blockchain, leading with purpose, and breaking new ground together.

How to Use This Encyclopedia

The Web3 Young Learners Encyclopedia is your guide to discovering the exciting world of cryptocurrency and blockchain. Whether you're just getting started or already curious about Web3, this book is here to help you learn in a fun and easy way.

Here's how to make the most of it:

1. Explore Each Letter:

This book is organized alphabetically, from A to Z, with each letter introducing a key term or concept. Start from the beginning or skip around to the topics that catch your eye.

2. Meet Your Guide:

Throughout the book, Bunz will be your cheerful guide. He'll explain tricky terms, share fun facts, and make things easier to understand.

3. Learn Through Stories and Examples:

Each letter from A to Z introduces a cryptocurrency-related concept with fun and engaging content.

4. Take Your Time:

Don't worry if you don't understand everything at once. Cryptocurrency is a big topic! Feel free to revisit sections as often as you like.

5. Ask Questions:

If something sparks your curiosity, ask a teacher, parent, or friend to discuss it with you. Learning together can be even more fun.

6. Stay Safe:

Always remember the safety tips shared in the book, like protecting your keys and being careful with online transactions.

7. Have Fun!

This book isn't just about learning. It's about having fun while exploring a fascinating new world.

Ready? Let's go explore!

Altcoins

Altcoins are digital coins that are not Bitcoin.

Altcoins come in many forms. Each one is built for a different reason, such as faster payments or private transactions.

It's important to learn what they are, but you don't need to use or own them.

Fun Fact:

The first altcoin was called Namecoin. It launched in 2011.

Example:

Ethereum (ETH), Litecoin (LTC), and Solana (SOL) are all altcoins.



Blockchain

Blockchain is like a digital notebook that stores information in blocks. Once data is added, it can't be erased or changed.

This makes it very secure and trustworthy, like a diary that the whole internet can see, but no one can edit.

Fun Fact:

Bitcoin was the first real-world use of blockchain.

Example:

Blockchains are used in crypto, games, and even for voting systems.



Cryptocurrency

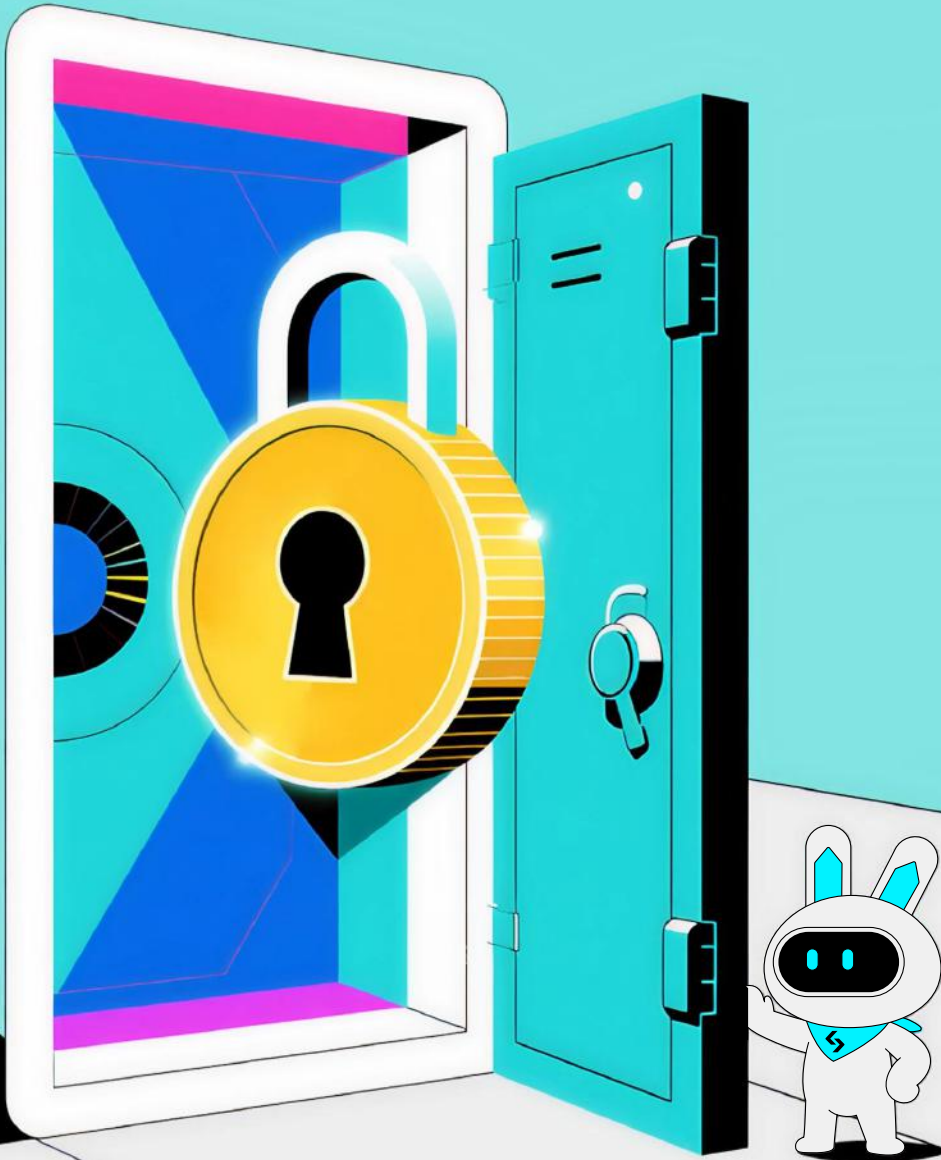
Cryptocurrency is a digital type of money that lives on the internet. It uses special codes (called cryptography) to keep it safe and secure. Unlike coins or bills, it isn't physical and isn't issued by any government.

Fun Fact:

The word "crypto" comes from the Greek *kryptós*, which means "secret"!

Example:

Bitcoin is the most well-known cryptocurrency.





Decentralization

Decentralization means no single person or company controls everything. Instead, power and decision-making are shared across many people and computers.

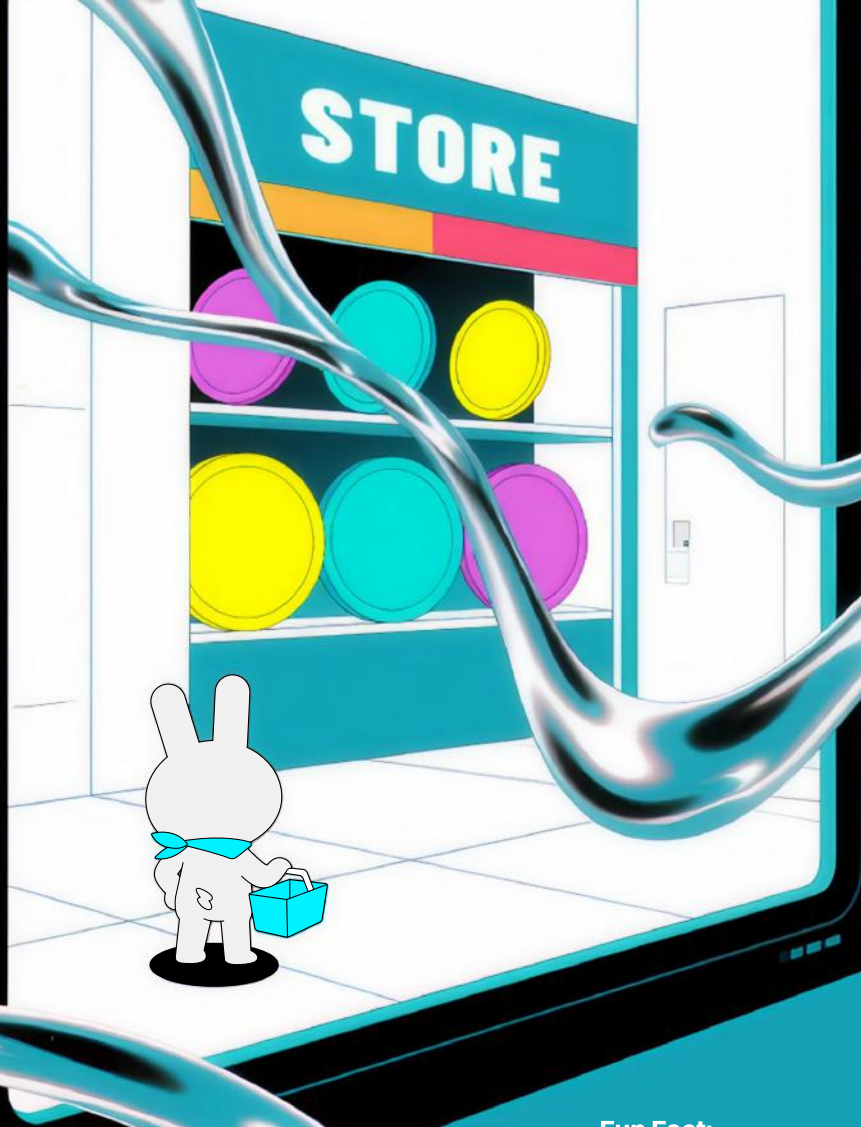
This makes systems more fair and harder to shut down.

Fun Fact:

The internet originally started as a decentralized idea!

Example:

In a decentralized system, there's no "CEO of Bitcoin."



Fun Fact:

Some exchanges also offer educational content and testnets (practice environments).

Example:

Bitget is one example of a global crypto exchange that offers free learning tools.

Exchanges (Know What, Not How)

Exchanges are websites or apps where people can trade digital assets like crypto. They're like online marketplaces, but with stricter rules. Teens don't need to trade. It's enough to understand what these platforms are.

Fiat Currency

Fiat is regular money issued by your country's government. It can be paper bills, coins, or digital money in a payment app. People use fiat every day to buy food, pay for rides, or shop at local markets. Crypto is not fiat, but both are used in different ways.

Fun Fact:
"Fiat" is a Latin word that means "let it be."

Example:
The coins in your pocket, the bills in your hand, or the money in your local payment app are all examples of fiat currency.



Gas Fees

Gas fees are small payments made to use certain blockchain features. Think of it like paying a toll to drive on a busy road. The fee helps keep things running. When traffic is high, the toll (or gas fee) increases.

Fun Fact:

Ethereum was the first blockchain to popularize the term “gas.”

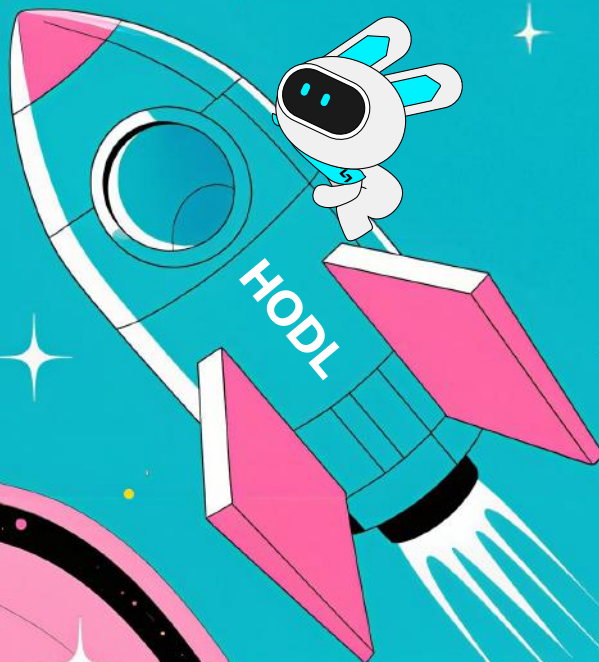
Example:

When someone sends crypto on Ethereum, they pay a gas fee to process the transaction.



HODL

“HODL” started as a typo of “HOLD,” but it became crypto slang for keeping your assets long-term. It’s now a symbol of belief in the future of crypto. However, remember that slang is not a strategy.



Fun Fact:

The term began in a 2013 post on a Bitcoin forum.

Example:

People say “HODL!” during market crashes to stay positive.

Identity and Online Safety

Your online identity includes your personal data, such as your name, email, and passwords. In Web3, protecting this is even more important since scammers often target new users. Never share private information with strangers.

Fun Fact:

No names needed. Web3 wallets use public addresses instead!

Example:

In public forums or chats, use a nickname, never share your real name or private key.



Jupiter (JUP)

Jupiter is a tool in the Solana ecosystem that helps users find the best prices when swapping tokens. You don't need to use it. Just know that tools like this make blockchain easier and more efficient.

Fun Fact:

Jupiter is also the name of the biggest planet in our solar system!

Example:

People using Solana often go through Jupiter to get the best exchange rates.



Keys (Public & Private)

Crypto “keys” are like passwords. Your public key is used to receive assets, while your private key lets you control them.

Never share your private key. It’s like handing someone the keys to your house.

Fun Fact:

Anyone with your private key can access your crypto and move your funds.

Example:

Public key = email address;

Private key = your email password.



Ledger

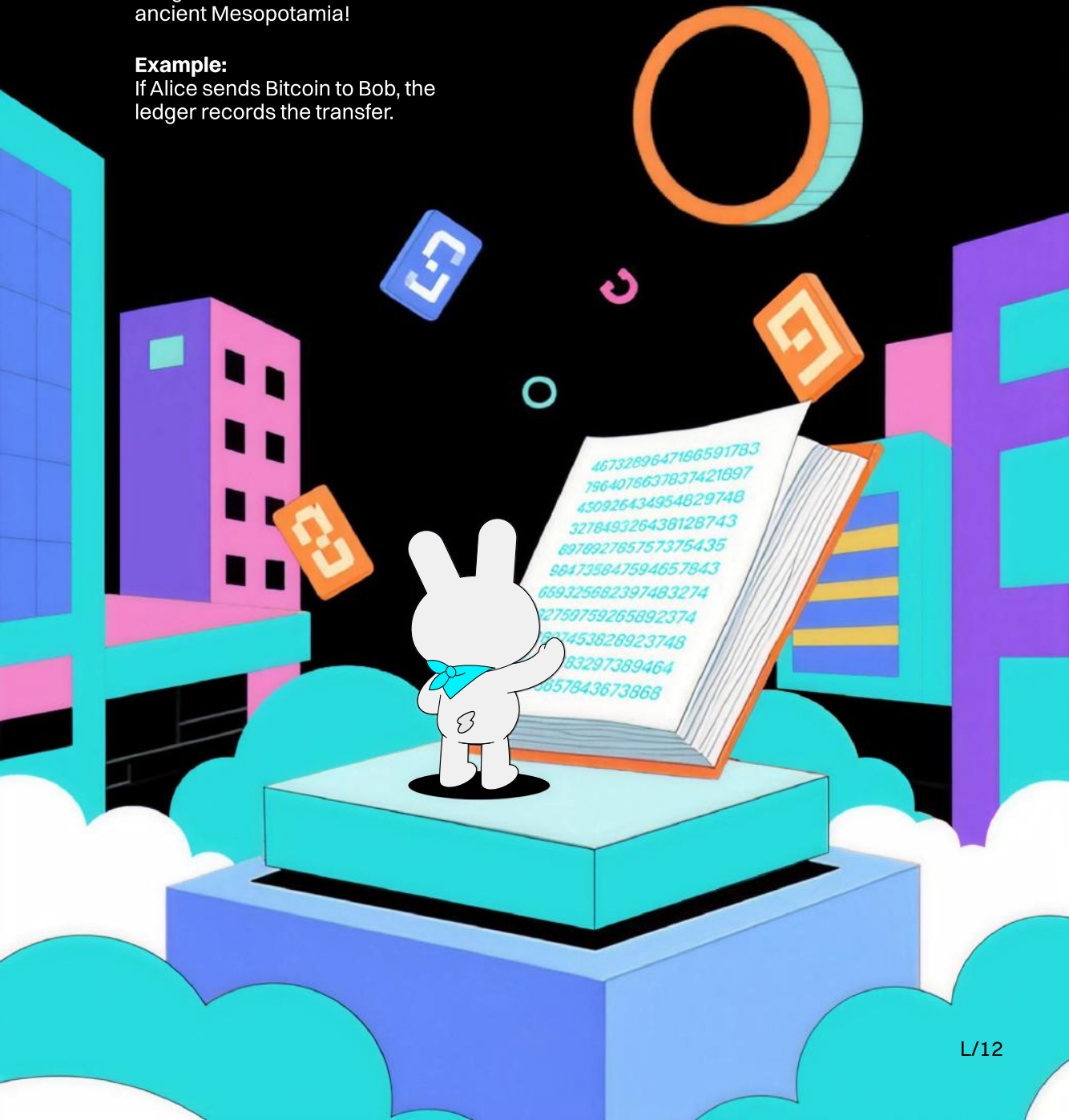
A ledger is a record book that keep track of transactions. On the blockchain, ledgers are public, unchangeable, and updated by computers around the world.

Fun Fact:

Ledgers have been used since ancient Mesopotamia!

Example:

If Alice sends Bitcoin to Bob, the ledger records the transfer.



Mining & Validators

Mining and validation are two ways to help blockchains run smoothly. Miners solve complex puzzles to confirm transactions (used in Bitcoin), while validators check and approve transactions (used in Solana or Ethereum 2.0).

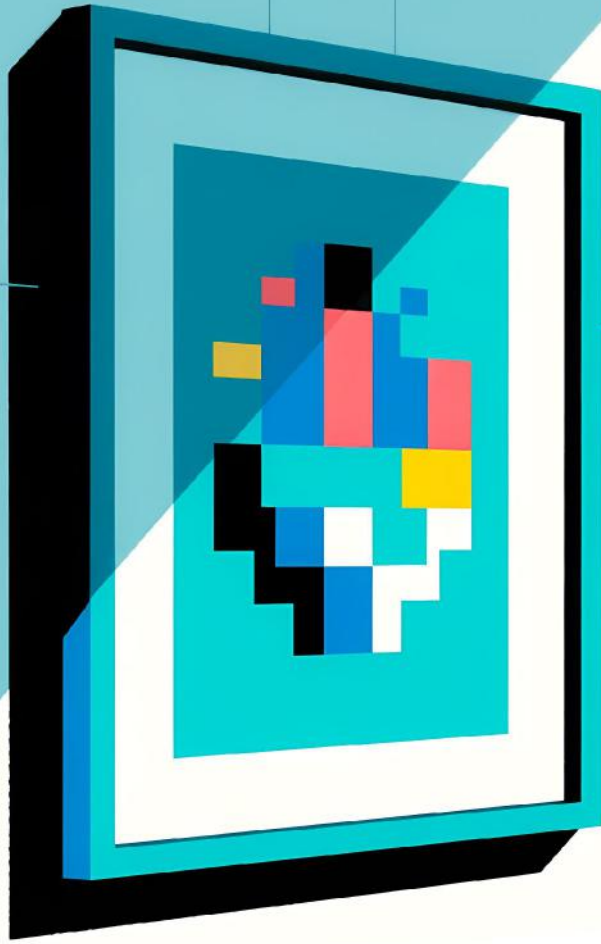
Fun Fact:

Bitcoin mining uses as much energy as some small countries!

Example:

Ethereum used to rely on miners — now it uses validators to keep the network secure.





NFTs (Non-Fungible Tokens)

NFTs are digital items that are one of a kind, like art, music, or game collectibles. Each NFT has unique data that proves ownership. But owning one doesn't always mean it's valuable.

Fun Fact:

The most expensive NFT sold for over \$69 million!

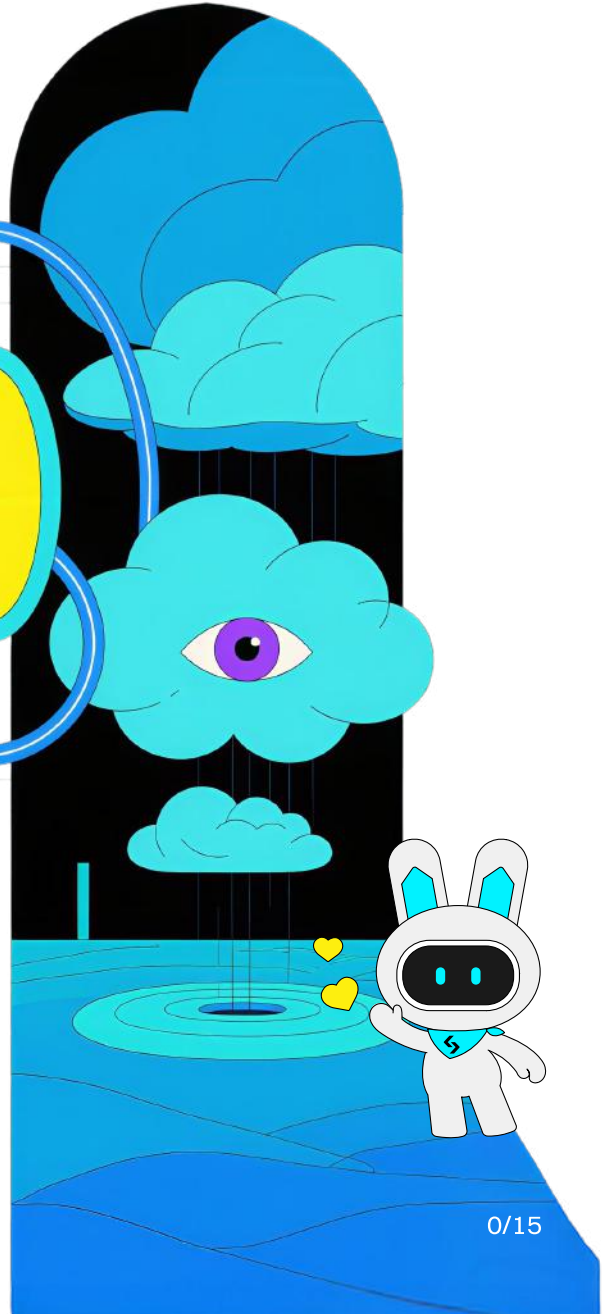
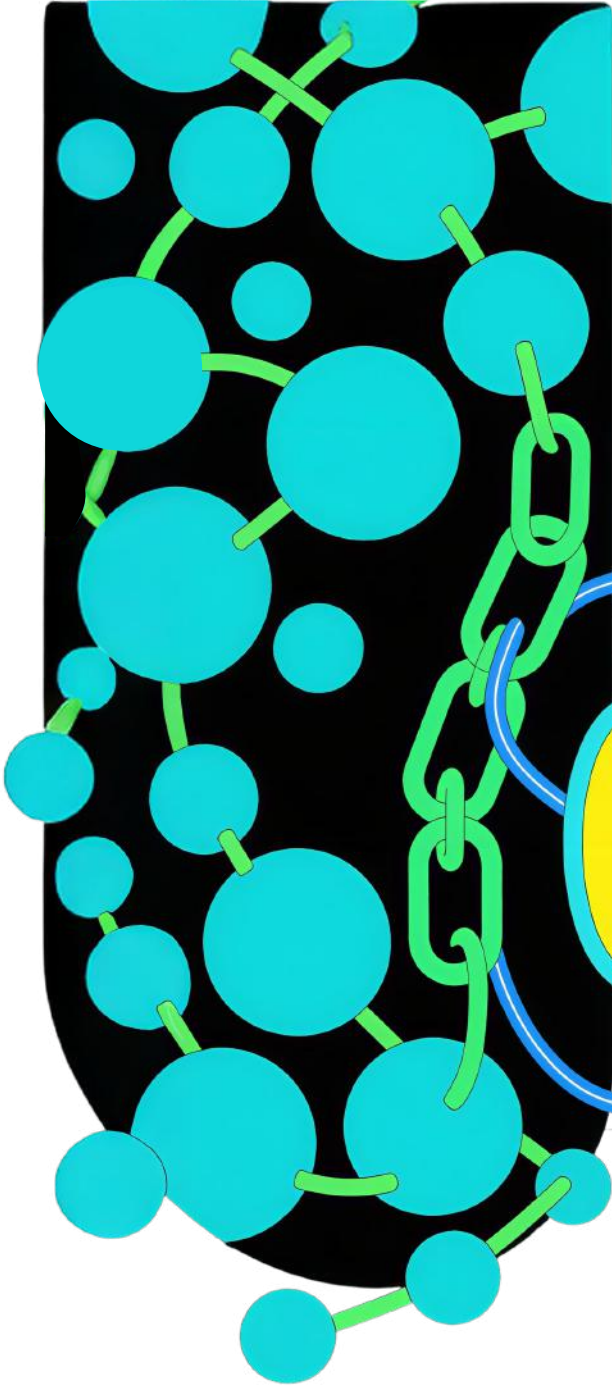
Example:

Artists use NFTs to sell things like digital paintings or concert tickets.



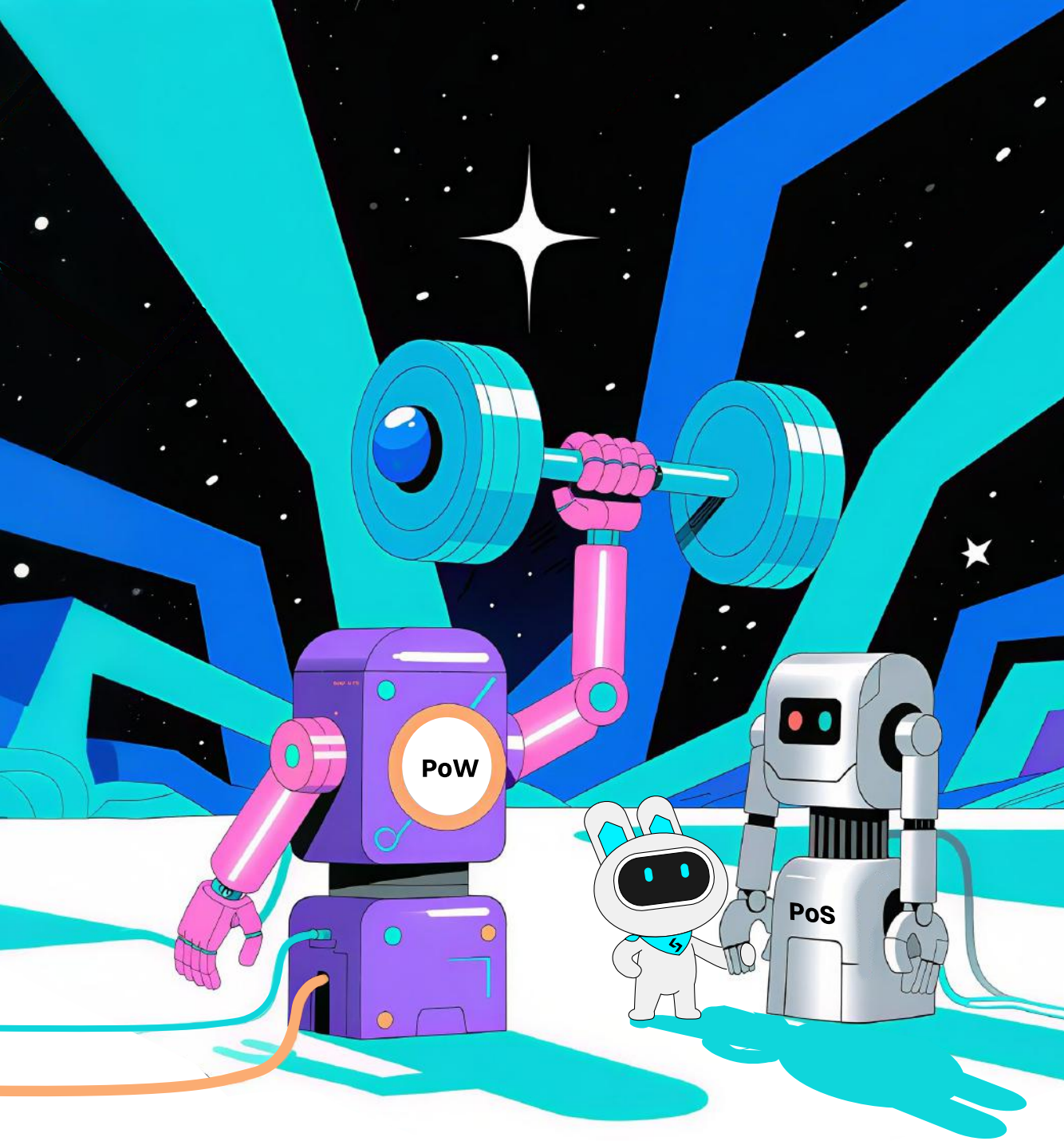
On-Chain vs Off-Chain

On-chain means something happens directly on the blockchain. Off-chain means it happens elsewhere, such as in a private app or server. Knowing the difference helps you understand how data is tracked.



Fun Fact:
On-chain actions usually cost gas. Off-chain ones are often free!

Example:
A crypto trade done on-chain is public. Off-chain chats or deals are not.



Proof Systems

Blockchains use “proof” systems to decide who can add new data.

Proof of Work needs powerful computers and lots of energy.

Proof of Stake relies on validators who lock up crypto to prove they’ll play fair.

Fun Fact:

Ethereum switched from Proof of Work to Proof of Stake in 2022.

Example:

Bitcoin uses Proof of Work. Solana uses Proof of Stake.

QR Codes in Web3

QR codes are square-shaped barcodes that link to websites or apps. In Web3, they can also connect you to wallets or crypto tools. Always scan from trusted sources only.

Fun Fact:
QR stands for “Quick Response.” They were invented in Japan in 1994.

Example:
Some wallets let you scan a QR code to receive crypto.



Risks, Red Flags & Staying Scam-Safe

Crypto comes with risks like fake giveaways, phishing links, and shady apps. Knowing the red flags helps you stay safe. Never trust anyone who rushes you or asks for private info.

Fun Fact:

Some scams use real celebrity photos to trick people online.

Example:

"If it sounds too good to be true, it probably is", especially in crypto.



Smart Contracts

Smart contracts are digital agreements that run automatically based on code, no middleman needed. They help power games, apps, and more on blockchains.

Fun Fact:

Smart contracts were first imagined in the 1990s, long before Bitcoin.

Example:

A smart contract might release a reward once a task is completed.



Tokens (Not Toys!)

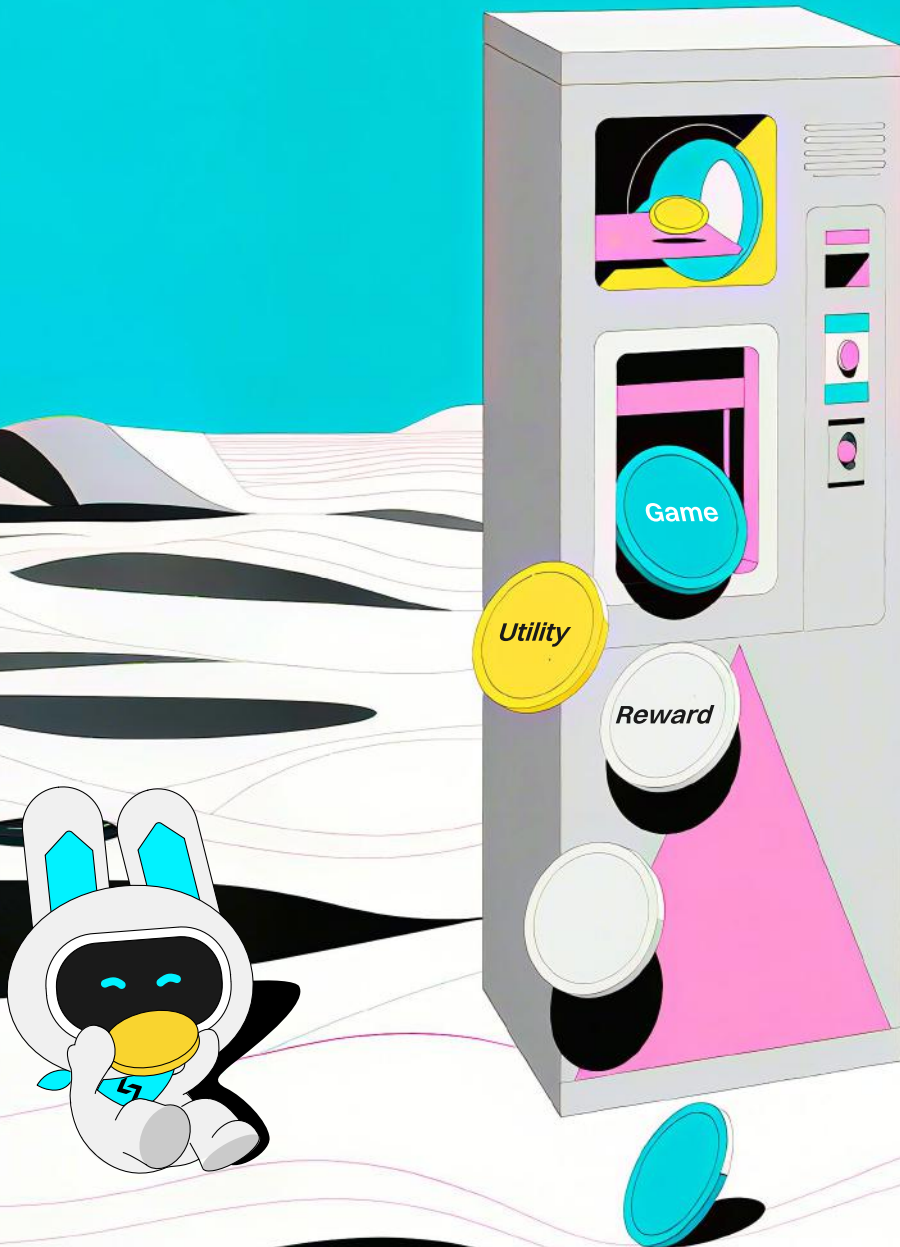
Tokens are digital items built on a blockchain. Some are used in games, some represent value, and others are just for fun. But remember, not every token has real-world worth.

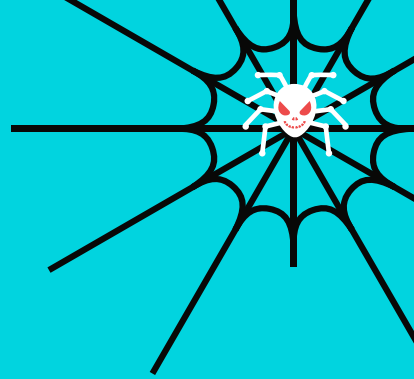
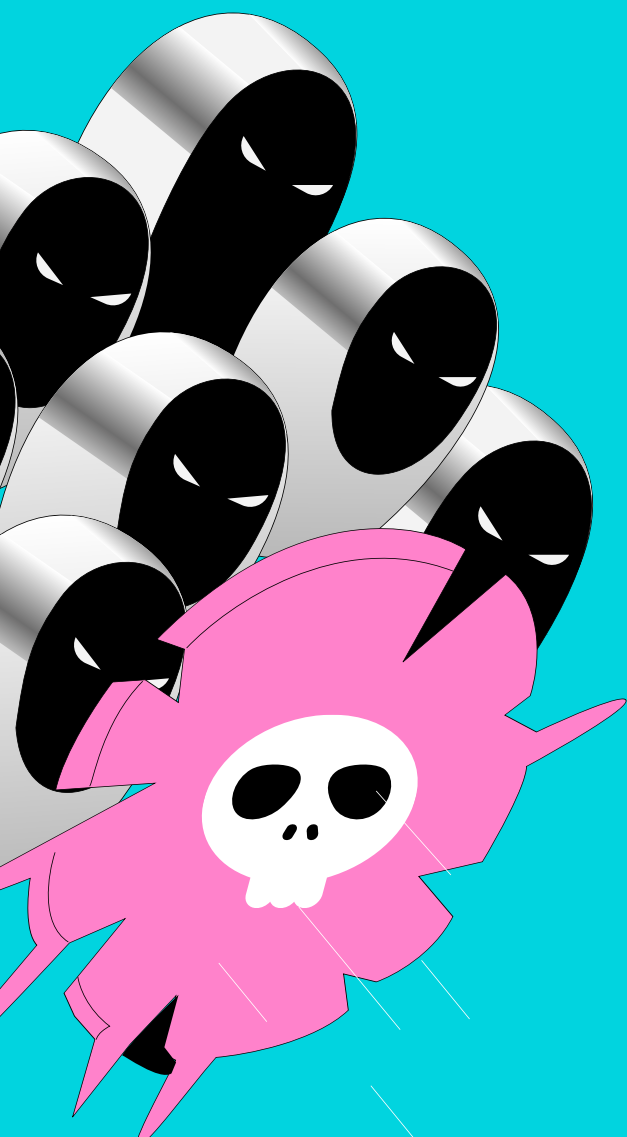
Fun Fact:

There are over 1 million tokens on Ethereum alone!

Example:

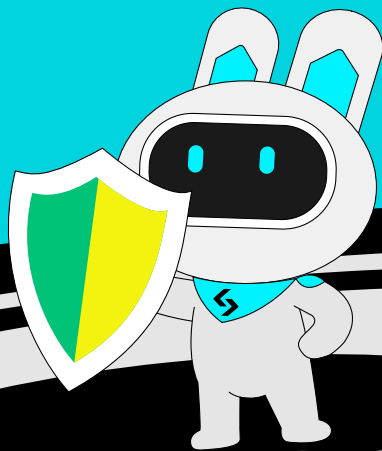
A game might reward players with tokens that only work inside that game.





Understanding Web3 Safety

Web3 gives more freedom, but that means more responsibility. Learn before doing. Always double-check links, back up your wallet, and ask questions before clicking anything new.



Fun Fact:

Some Web3 platforms offer “view-only” wallets for learning purposes.

Example:

Use a practice wallet to understand how they work, no real funds needed.

Volatility (What It Means)

Volatility means the price of something goes up and down, sometimes very fast. It's common in crypto. While this can be exciting, it also means prices can change quickly and without warning.

It's also risky and unpredictable.

Fun Fact:

Bitcoin once lost over 80% of its value in a single year. It eventually recovered and bounced back.

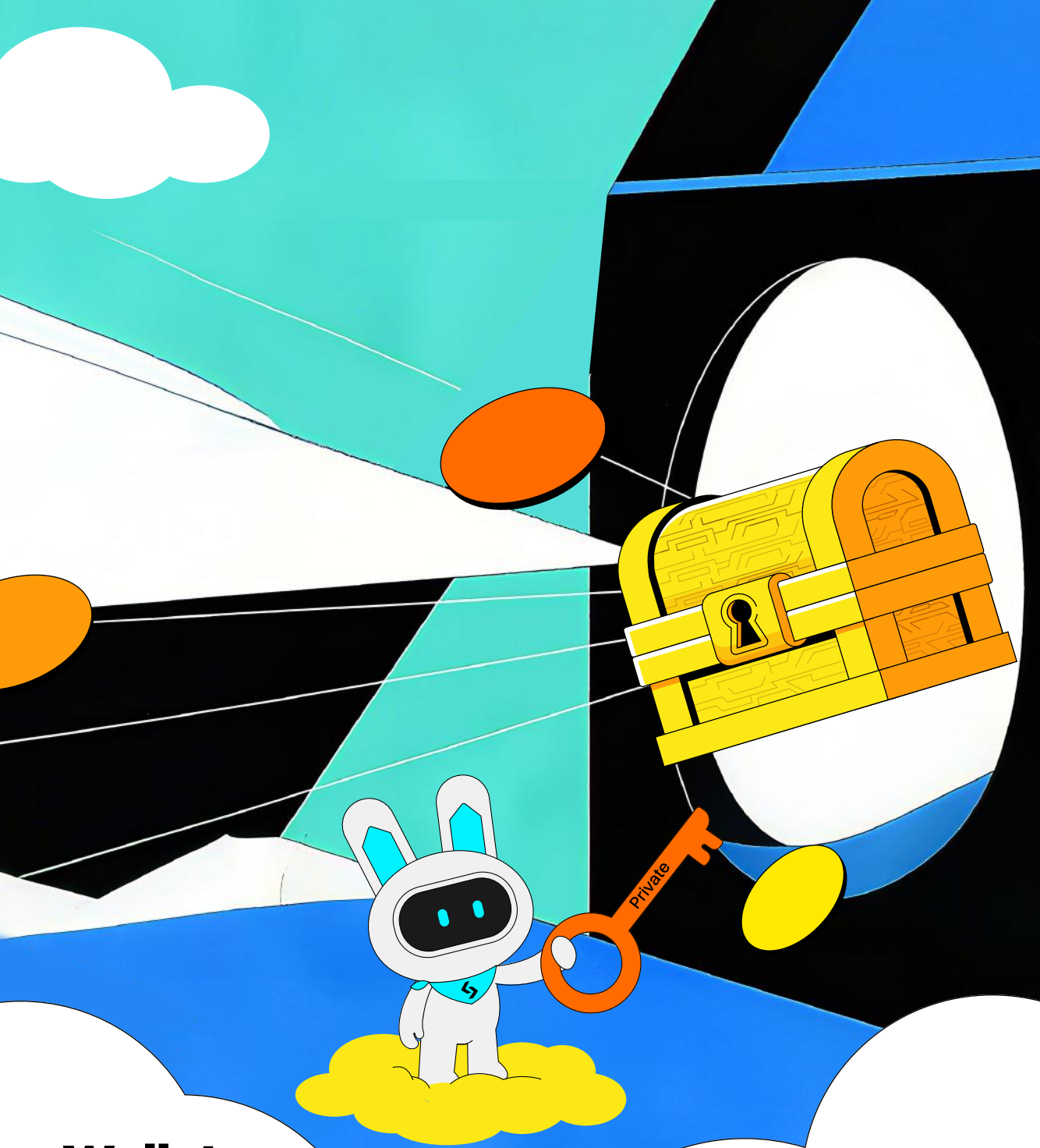
Example:

A coin worth \$10 today might increase or decrease significantly tomorrow.

\$9928

\$1253





Wallets (Read-Only Awareness)

Crypto wallets are like digital lockers. They store your tokens and let you use Web3 apps. But never share your seed phrase. It's the master key to everything inside.

Fun Fact:

"Cold wallets" work offline and are extra safe from hackers.

Example:

Bitget Wallet is a crypto app that keeps your tokens safe.

XRP

XRP is a popular cryptocurrency made by Ripple, mainly used for fast international payments. It's good to know about, but always do your own research before jumping into trends.

Fun Fact:

XRP transactions take just 3 to 5 seconds to confirm, which is much faster than Bitcoin.

Example:

Some banks test XRP to explore blockchain-based payment systems.



Your Data and Privacy in Web3

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In Web3, you control your own data. That also means you're responsible for keeping it safe. Know what's public and what should stay private. Smart habits lead to safer experiences.

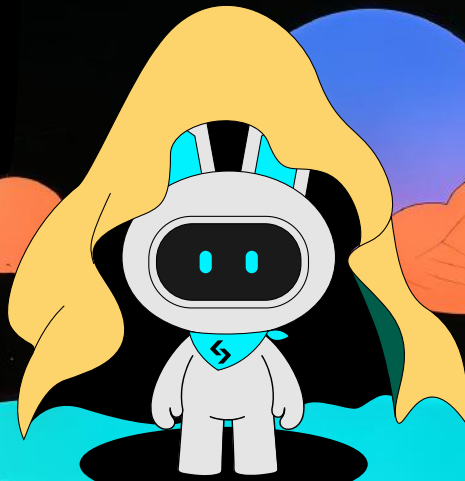
Fun Fact:

Wallet addresses are public, but they don't reveal who you are.

Example:

Turn on privacy settings in apps and avoid reusing passwords.

3



Zero-Knowledge Proofs

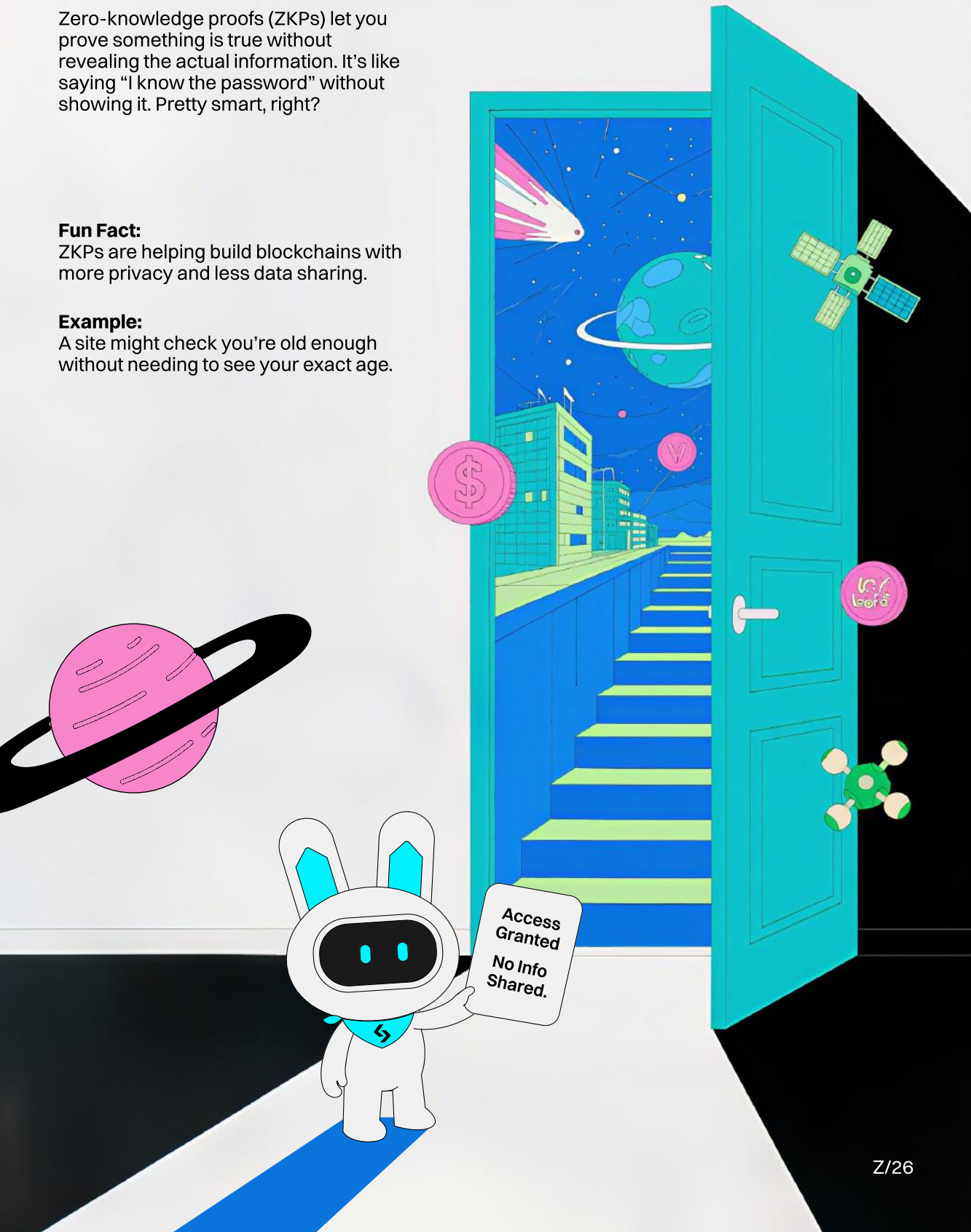
Zero-knowledge proofs (ZKPs) let you prove something is true without revealing the actual information. It's like saying "I know the password" without showing it. Pretty smart, right?

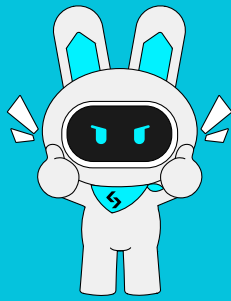
Fun Fact:

ZKPs are helping build blockchains with more privacy and less data sharing.

Example:

A site might check you're old enough without needing to see your exact age.





Bonus Bits for Smart Minds

Beginner-Friendly Web3 Glossary

A quick-reference guide to common words you'll see in Web3 spaces.

Blockchain Explorer - A website or tool that lets you see what's happening on a blockchain, like tracking transactions or checking wallet activity.

Happening on a blockchain - like tracking transactions or viewing wallet activity.

Consensus - A method used by computers in a network to agree on what's true, such as who owns what.

DApp (Decentralized Application) - An app that runs on a blockchain instead of just one company's server.

DAO (Decentralized Autonomous Organization) - A digital community where members vote on decisions, no bosses needed.

Testnet - A safe, fake version of a blockchain where developers test new features before using them for real.

Seed Phrase - A set of secret words used to recover your crypto wallet. Keep it safe and never share it.

Cold Wallet - A way to store crypto offline, away from the internet, usually considered safer.

Hot Wallet - A wallet connected to the internet, like apps or browser extensions.

Block - A group of transactions recorded together on a blockchain.

Node - A computer that helps run and maintain a blockchain network.

Stablecoin - A digital coin designed to match the value of real-world money like dollars or pesos.

Immutable - Something that can't be changed or deleted once it's added to a blockchain.

Airdrop (Awareness Only) - Free digital tokens sometimes given to users, often used for promotion.

Whale - Someone who owns a large amount of crypto and can influence the market with big trades.

Gas Limit - The maximum amount of effort or cost you're willing to spend on a blockchain action.

Fork - When a blockchain splits into two separate versions.

Layer 1 - The base blockchain, like Bitcoin or Ethereum.

Layer 2 - Extra tools or systems built on top of Layer 1 blockchains to make things faster or cheaper.

Burning (Tokens) - Destroying crypto tokens permanently so they can't be used anymore.

DYOR (Do Your Own Research) - A reminder to learn and check the facts before doing anything in crypto or Web3.

Top Online Scams to Watch Out For

Even teens can be targets. Here are common traps to avoid:

Fake Giveaways - “You’ve won 1 BTC! Just send a little to get it.” 🚫 Don’t. Ever.

Impersonators - Fake social media profiles pretending to be legit companies or influencers.

Phishing Links - Messages or emails asking you to “log in” through suspicious sites.

Free Token Airdrops - If it asks for your private key, it’s a scam.

DMs on Discord/Telegram - If someone contacts you first, think twice before replying.

How to Stay Safe:

Stick to official channels. Never rush. Think before you click.



Digital Citizenship & Cyber Hygiene

Web3 is exciting—but with great power comes great responsibility.

Here's how to stay smart:

Respect Others Online - No spamming, bullying, or sharing fake info.

Protect Your Privacy - Don't overshare personal info on platforms or social media.

Use Strong Passwords - Mix numbers, letters, and symbols, and don't reuse them.

Be Mindful of What You Click - If it's unknown or looks weird, it's best to ignore.

Back Up Your Wallet - If you're experimenting in test mode, always save your recovery phrase in a safe place.

Pro Tip: Just like in school, kindness, curiosity, and caution go a long way in Web3 too.



Reminder:

What This Book Is and Isn't

What it IS:

A learning tool for understanding the digital future.

A fun, simple way to explore Web3 concepts.

A guide to staying smart and safe online.

What it ISN'T:

It's not financial advice.

It's not for buying, selling, or investing.

It's not a how-to guide for trading.

Always:

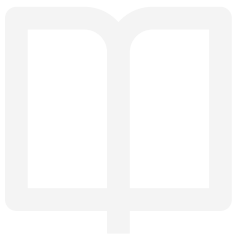
Ask questions.

Think critically.

Talk to a trusted adult if you're unsure about something.

Remember:

Learning is the first step, doing comes much later (and only when you're older and ready).



Closing Remarks

Congratulations on completing your journey through Web3 Young Learners Encyclopedia!

You now understand the foundations of cryptocurrency, blockchain, and Web3. These are powerful technologies that are already shaping the world around us. What may have seemed confusing at first is now a collection of clear ideas you can build on.

Just like learning any new language or tool, it takes time. Step by step, you've proven that you can handle complex topics and think critically about the digital world.

As you grow, so will your opportunities. Whether you explore careers in tech, become a smart digital citizen, or help others stay safe online, what you've learned here is a great starting point.

Stay curious.
Stay safe.
Always ask questions.

This isn't the end of your Web3 adventure. It is only the beginning.

You are the future. The future is being built now.

With respect and encouragement,
The Cryptita Plays Team



About Cryptita Plays

Cryptita Plays is a passion-driven initiative dedicated to empowering youth in remote and underserved areas, where access to the internet and modern technology is limited.

Its mission is to provide foundational knowledge in blockchain and cryptocurrency, helping young learners unlock opportunities in the digital world.

Through education and community engagement, Cryptita Plays aims to inspire a generation of informed, confident individuals who can create positive change in their communities.



Acknowledgments

Web3 Young Learners Encyclopedia is an educational initiative by Cryptita Plays and Blockchain4Youth through Bitget.

It was created to make blockchain and crypto knowledge safe, fun, and accessible for youth around the world.

Thank you to the educators who guided us, the creators who brought each page to life, and the young readers whose curiosity keeps this mission alive. This book exists because of you.

This book is non-commercial and made for educational use only. It was created by Cryptita Plays with support from Blockchain4Youth, a Bitget initiative helping young people around the world explore and understand Web3.



by Cryptita Plays x Bitget's Blockchain4Youth

THIS BOOK IS NOT FOR SALE