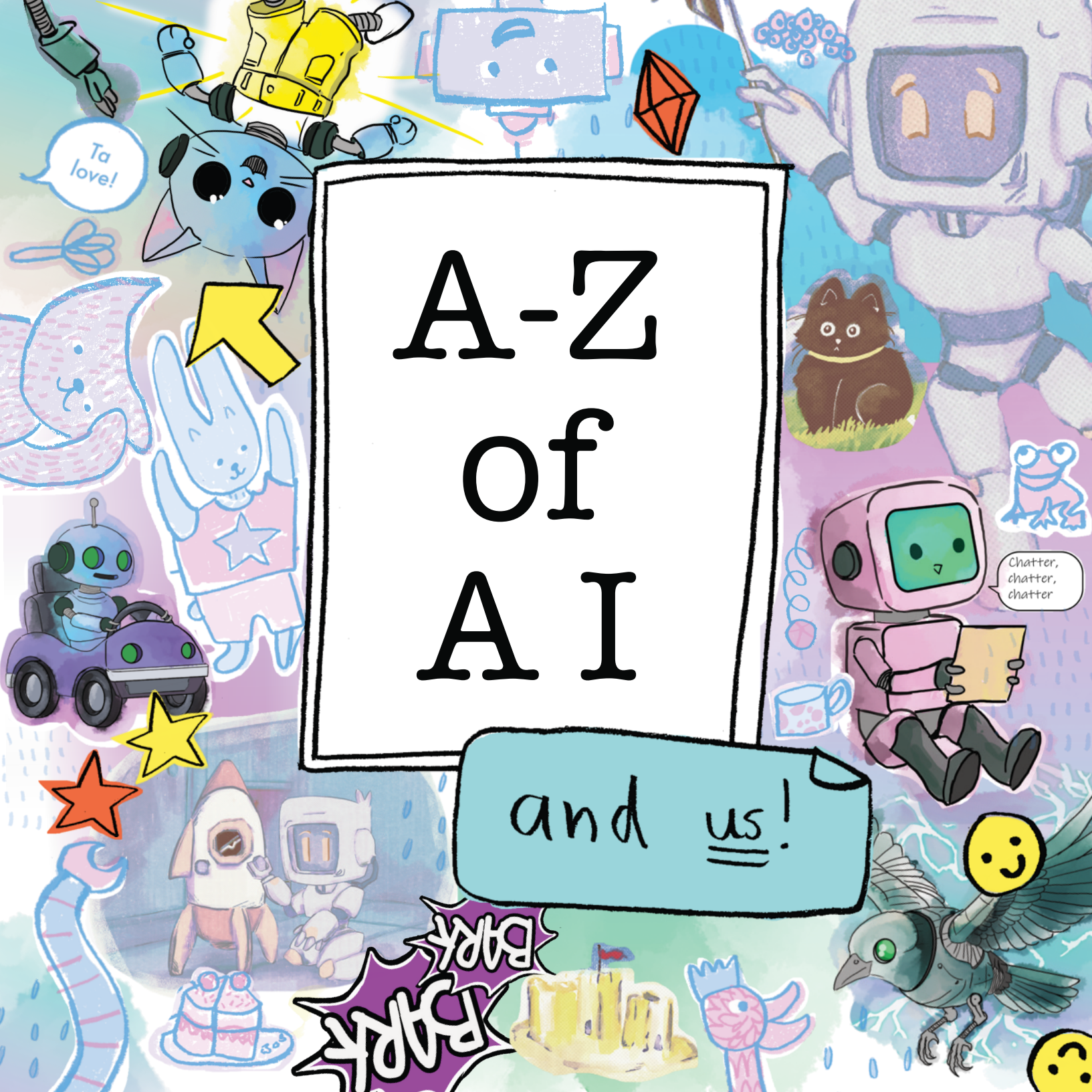

Ta love!
A-Z of AI
and us!
Chatter, chatter, chatter
BARK
BARK


What is AI? Wrong answers only!
Annoying iguanas
Alien ideas
Accidental iceskating
Absolutely igloo
Alpaca interruption
Alligators itch
Hey reader, do you have any ideas?


Okay that was fun!
But really, AI means Artificial Intelligence.
Artificial Intelligence?
What does it do?
How does it work?
Not sure. Let's read this A-Z book and find out...
A-Z of AI and us!
Sounds like an amazing investigation!

A

is for

Algorithm

An algorithm is a set of rules,

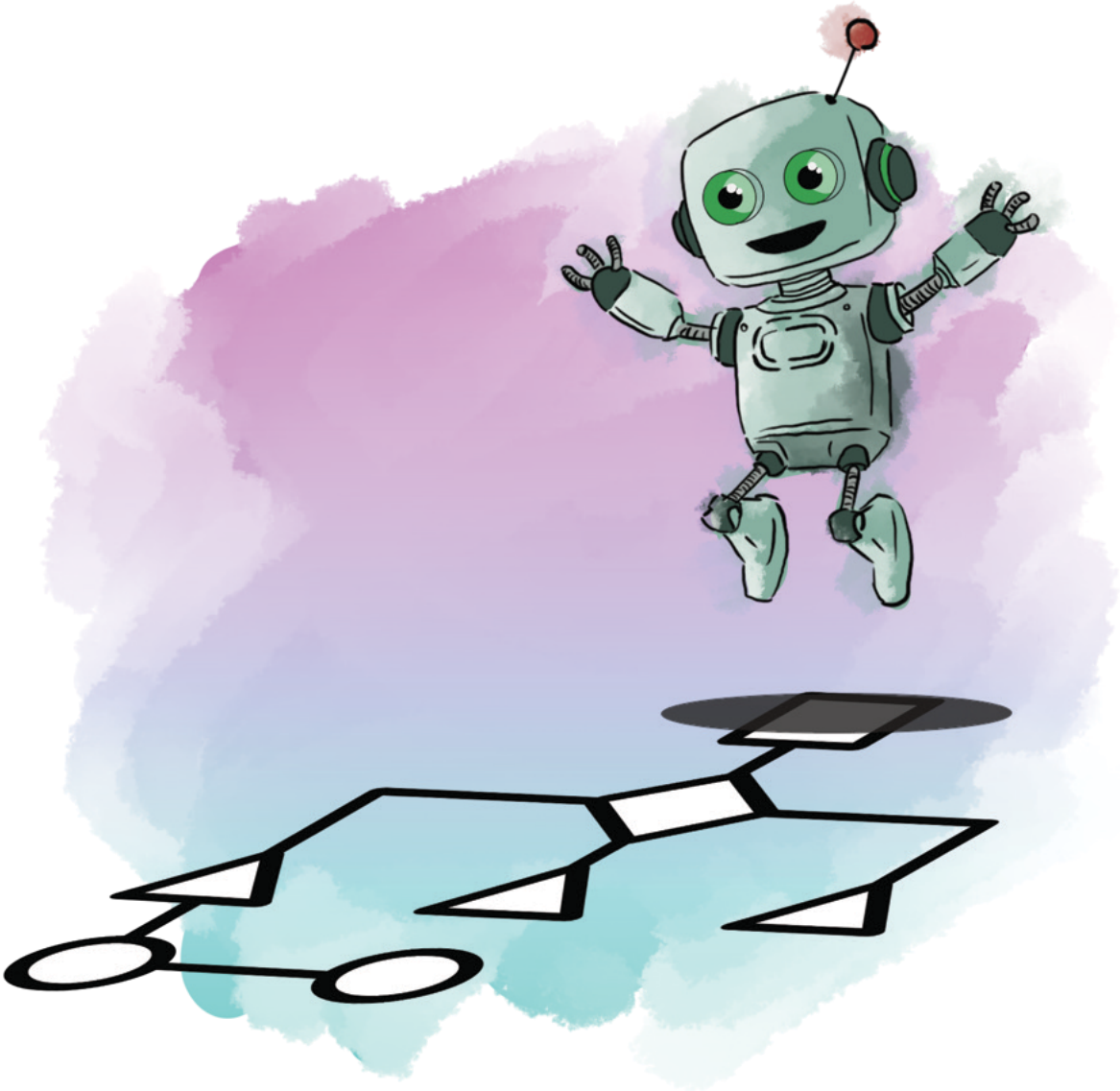
Like secret steps or magic tools.

It tells a robot what to do —

To jump, or dance, or find your shoe!

Follow every step in line,

And you'll build a bot that's just fine.



B

is for

Bias

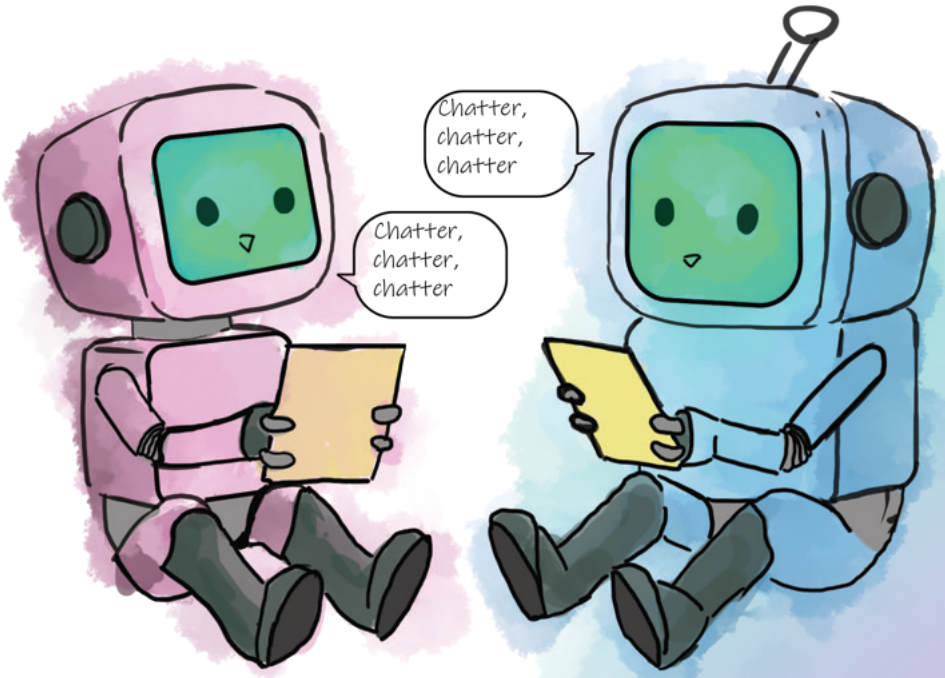
Bias means things aren't quite right,
Like "Cats wear trousers, but only bright!"
It learns from data, good or bad,
And that can make it seem quite mad.
So give it facts both wide and true,
And it'll work out much better for you!

C

is for

Chatbot

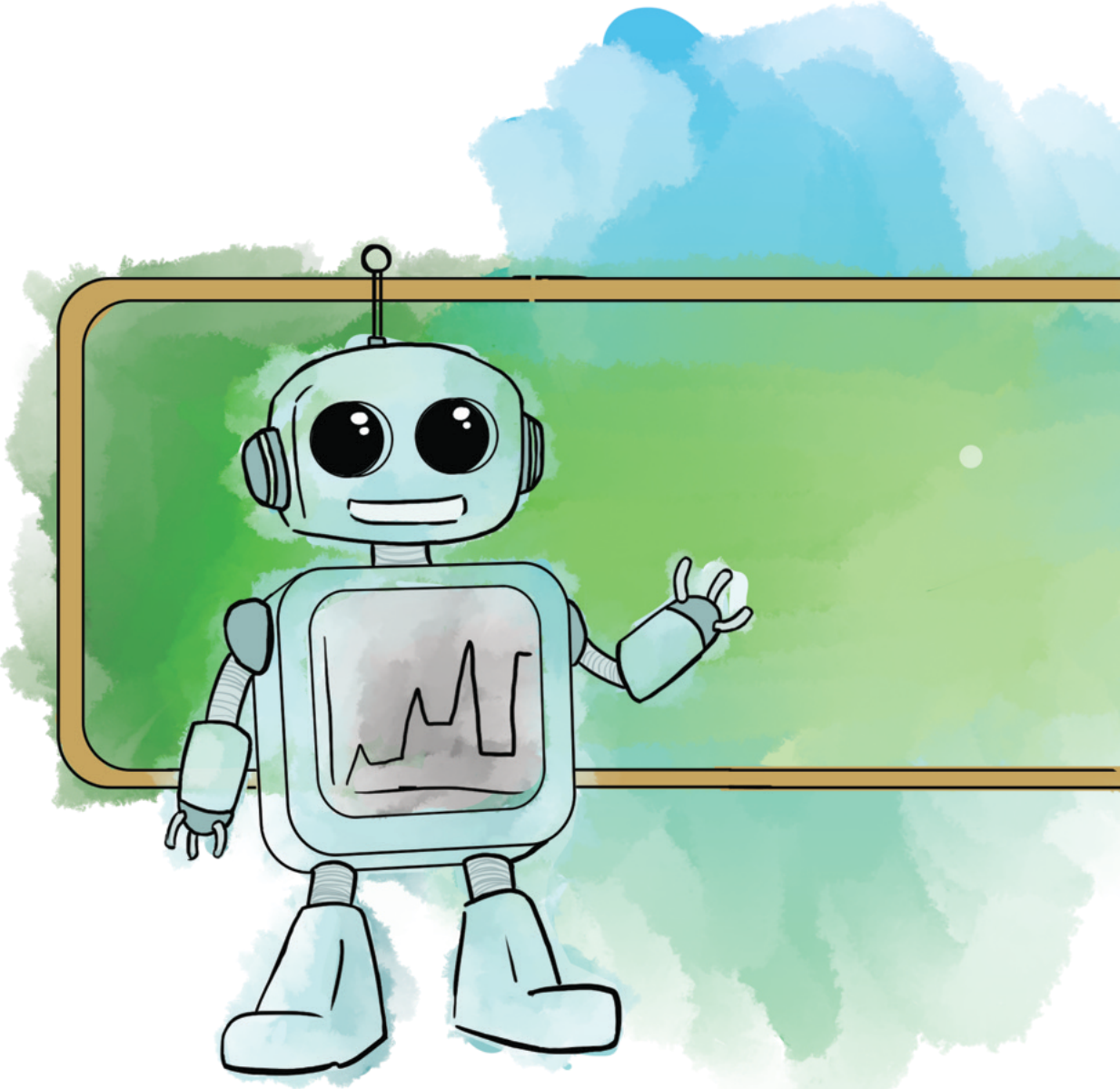
Chatbots like to have a natter,
Sometimes deep, sometimes chatter!
They type “Hello!” and love to play,
They’re there to talk night and day.
But don’t tell secrets, names, or plans—
They’re still just machines, not real-life fans.


Chatter, chatter, chatter
Chatter, chatter, chatter

D Data

is for

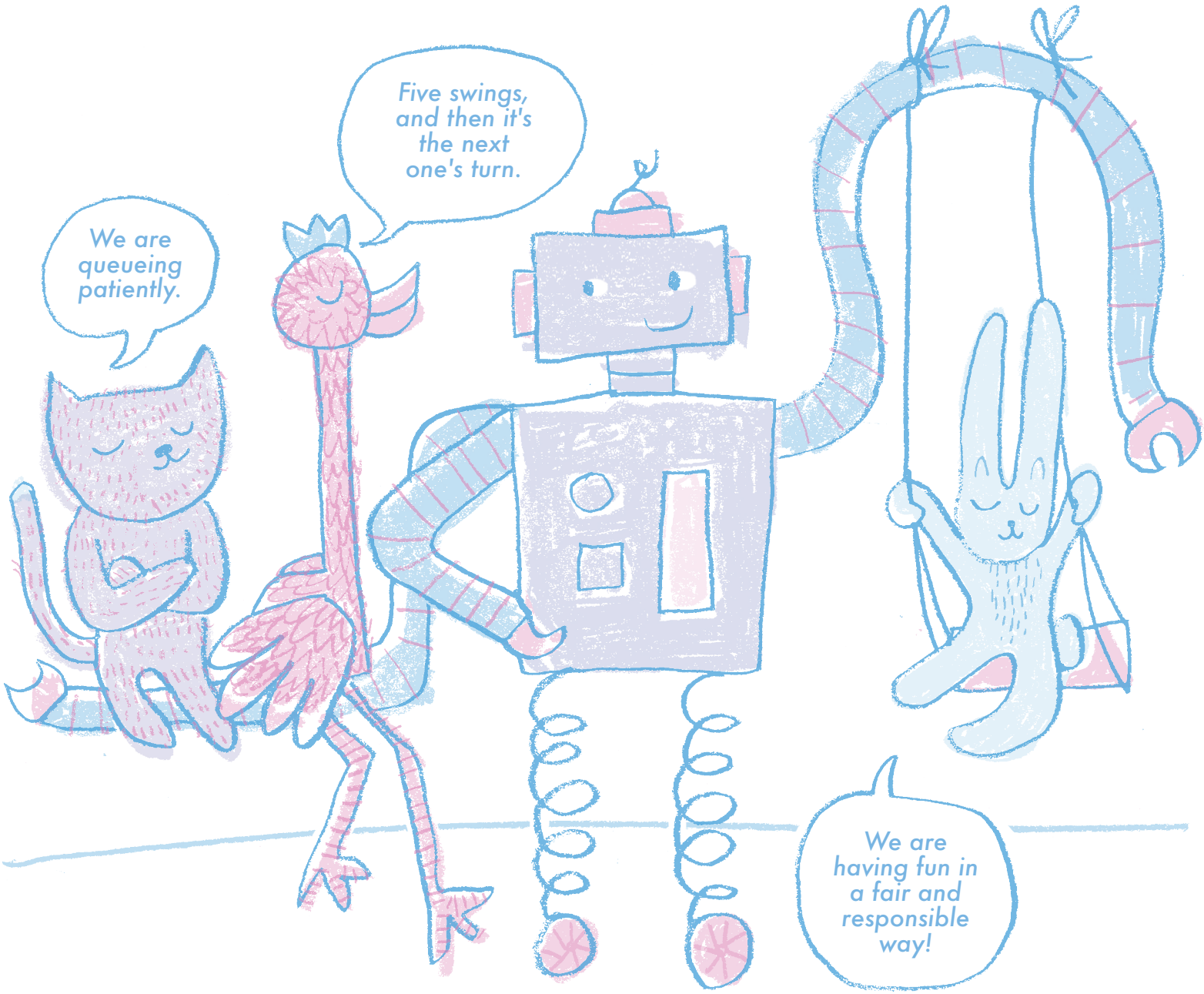
Data is the things we do
Like songs, photos and letters too.
It helps machines to learn and grow,
And understand the world we know.
But always ask before you share,
Some data needs a grown-up's care.



is for

Ethics

Ethics help us show what's right and wrong,
Like don't squash cupcakes all day long!
They teach machines to think things through,
Like "Should I steal that kangaroo?"
With kindness, rules, and careful thought,
We shape the bots that we have taught.

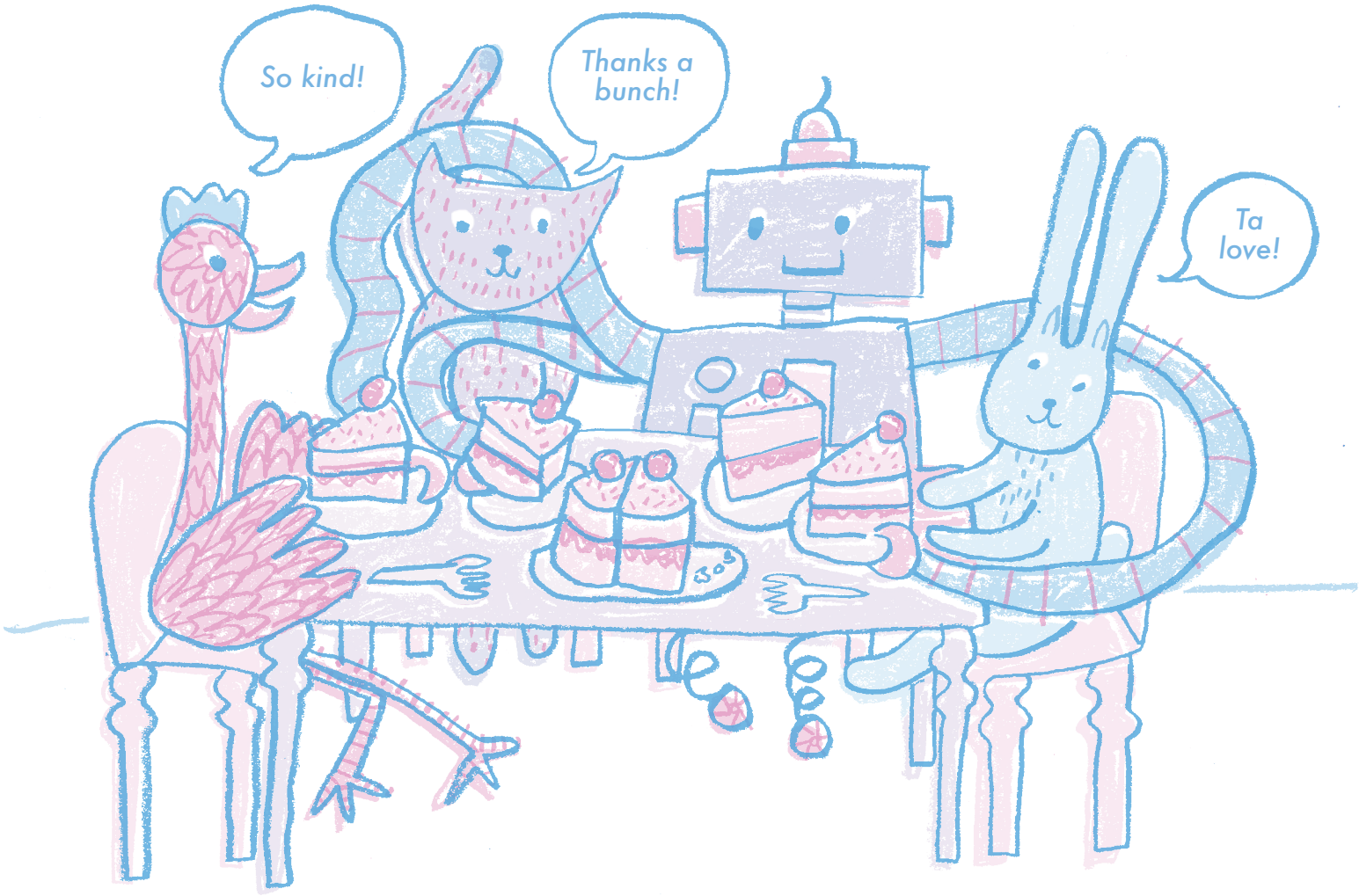

We are queueing patiently.
Five swings, and then it's the next one's turn.
We are having fun in a fair and responsible way!

F

is for

Fairness

Fairness means that all can play,
No matter where you start the day.
Robots should treat us all the same —
Each name, each face, each kind of game.
It helps us share, include, be kind —
And make sure we leave no one behind.


So kind!
Thanks a bunch!
Ta love!

G

is for

Generative AI

It paints, it writes, it makes new things—

Like pirate goats with golden wings,

It mixes words and works of art,

And builds new things from all the parts.

A robot with a brush or pen—

Creating wonders now and then!

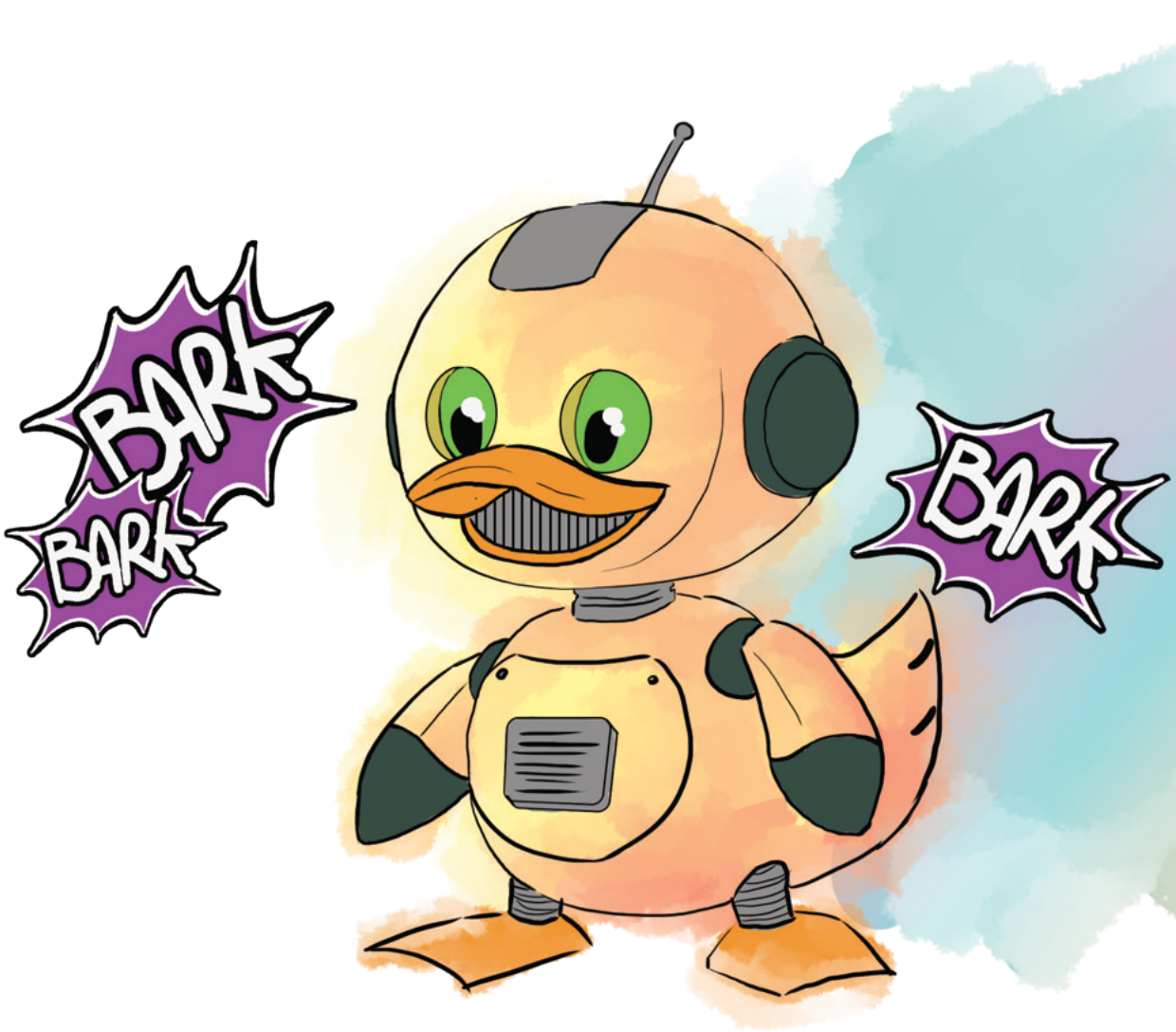

I am making new medicine!

H

is for

Hallucination

Sometimes bots don't get things right—
Like ducks that bark and flowers that bite
They make stuff up, as best they can,
But sometimes there's no clever plan.
So check the facts when bots explain—
They might be confused again.


BARK
BARK
BARK

I

is for

Image Recognition

“Is that a cat?” the robot spies,

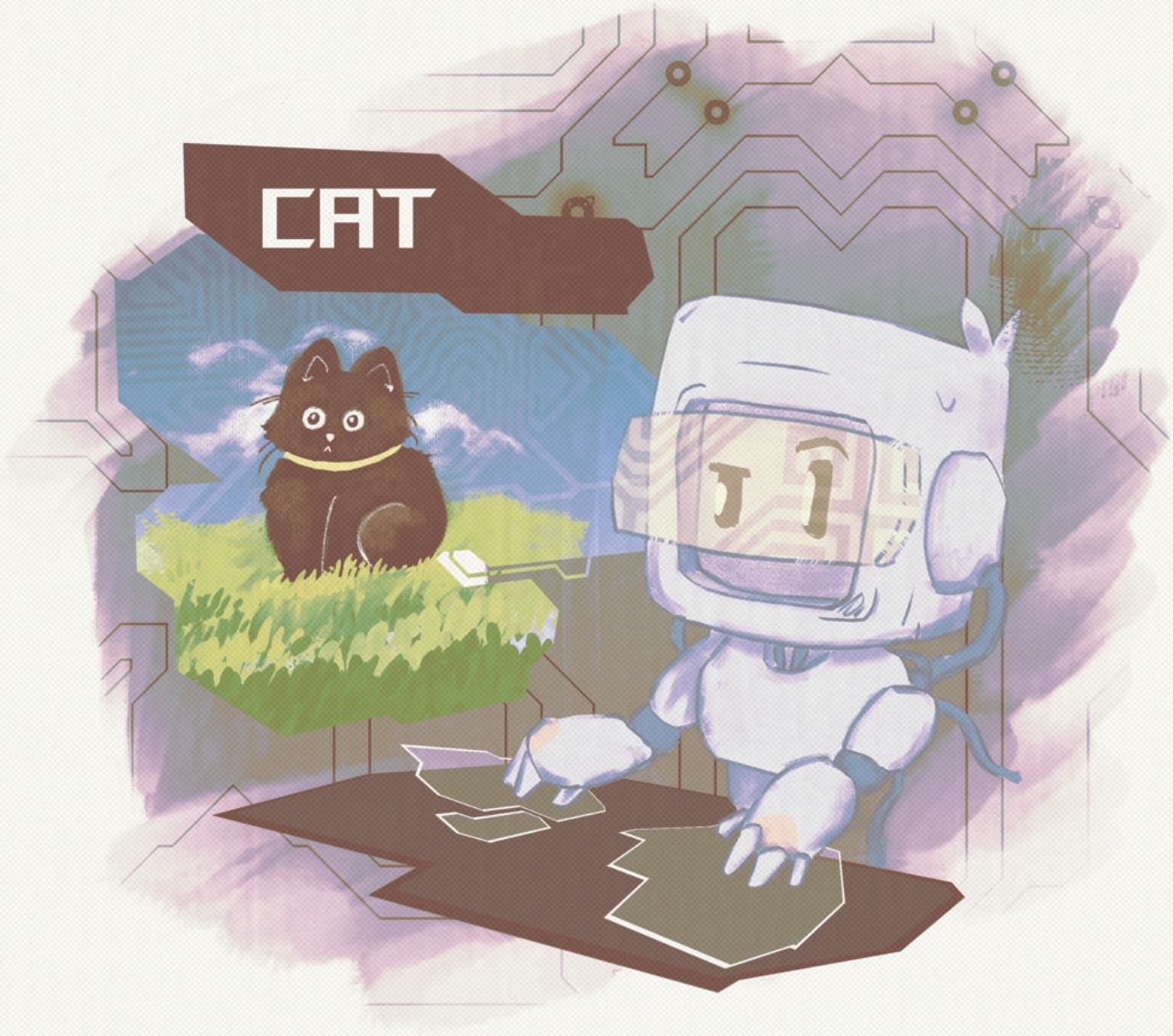
With pointy ears and sparkly eyes.

It looks at pictures every day,

To tell if it sees goats or hay!

But sometimes it still gets in a muddle—

A cat? A duck? No wait...a puddle!

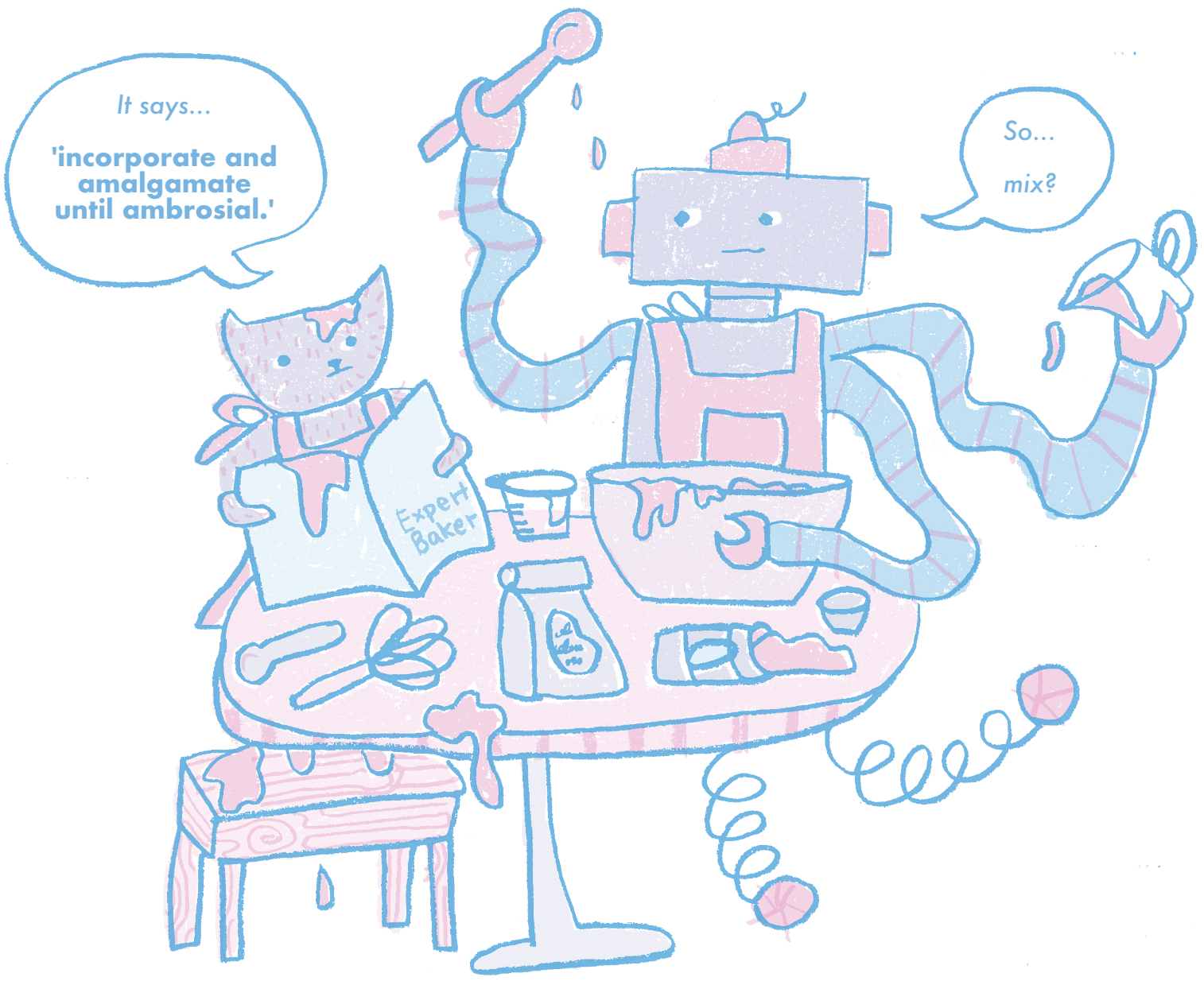

CAT

J

is for

Jargon

Jargon is those tricky words—
Like “token stream” or “data shards.”
They twist and turn, they sound absurd...
Or maybe even a giant bird!
But don’t be scared, just ask or learn—
And soon you’ll know them, turn by turn.


It says...
'incorporate and amalgamate until ambrosial.'
So...
mix?
Expert Baker

K

is for

Knowledge Graphs

A knowledge graph is a clever web,

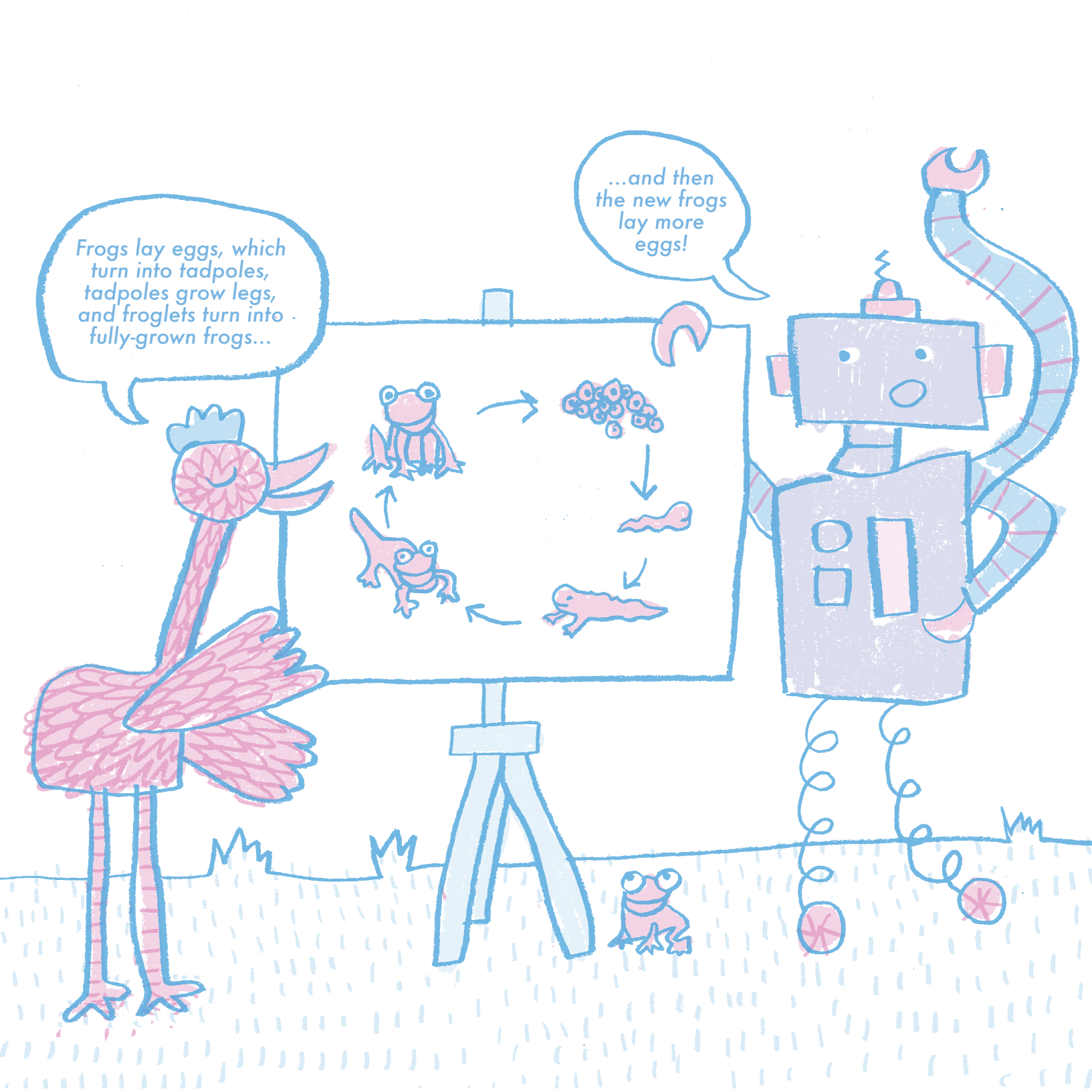
That links ideas with tiny threads

It helps AI to find what's true—

Like "Bees love flowers, and skies are blue!"

It connects the facts, big and small,

So bots can make sense of it all.


Frogs lay eggs, which turn into tadpoles, tadpoles grow legs, and froglets turn into fully-grown frogs...
...and then the new frogs lay more eggs!

L

is for

Large Language Model

It's read more books than I can name,

About pirate tales or silly games

It learns how humans write and chat—

Like "Mad as frogs!" or slang like that.

It doesn't think quite like we do...

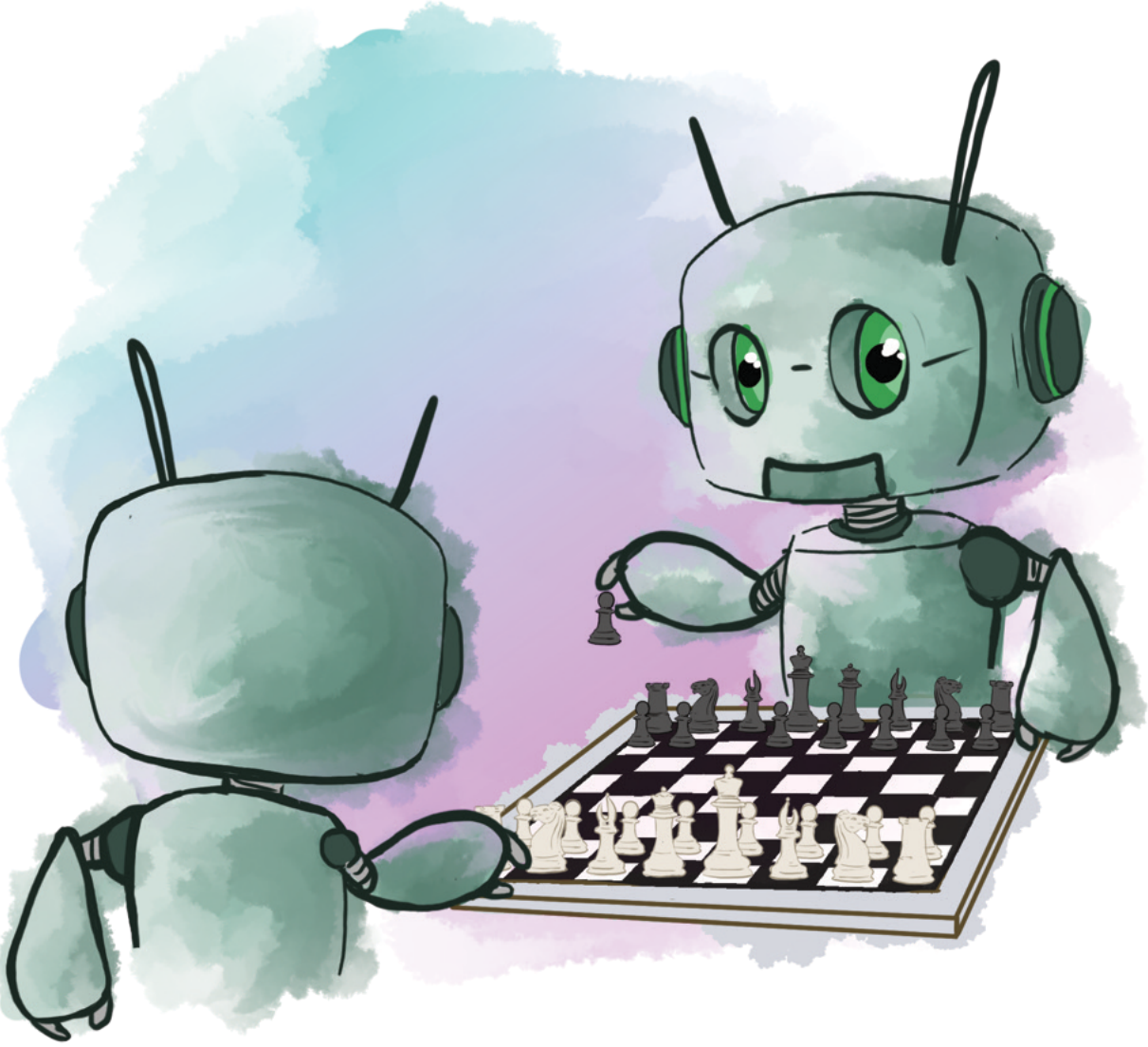
But it can say "Ey up!" to you!


Mad as a box of frogs!
Apples and pears...
Ey up duck!
Now you're getting it!

M Machine Learning

is for

Robots don't go to robot school,
They learn from us, by spotting rules.
The more they see, the more they know,
From spotting cats to counting crows!
Machines that learn are really great,
Until they beat you...watch out checkmate!



N

is for

Natural Language Processing

Some words mean more than they say—

Like “it’s raining cats and dogs today!”

A robot hears and tries to learn,

What humans mean at every turn.

It figures out our jokes and chat...

Like holding brollies for your cat!


It's raining cats and dogs out here...
Stay dry with this brolly!

O

is for

Open Source

Open source is code for all to share —

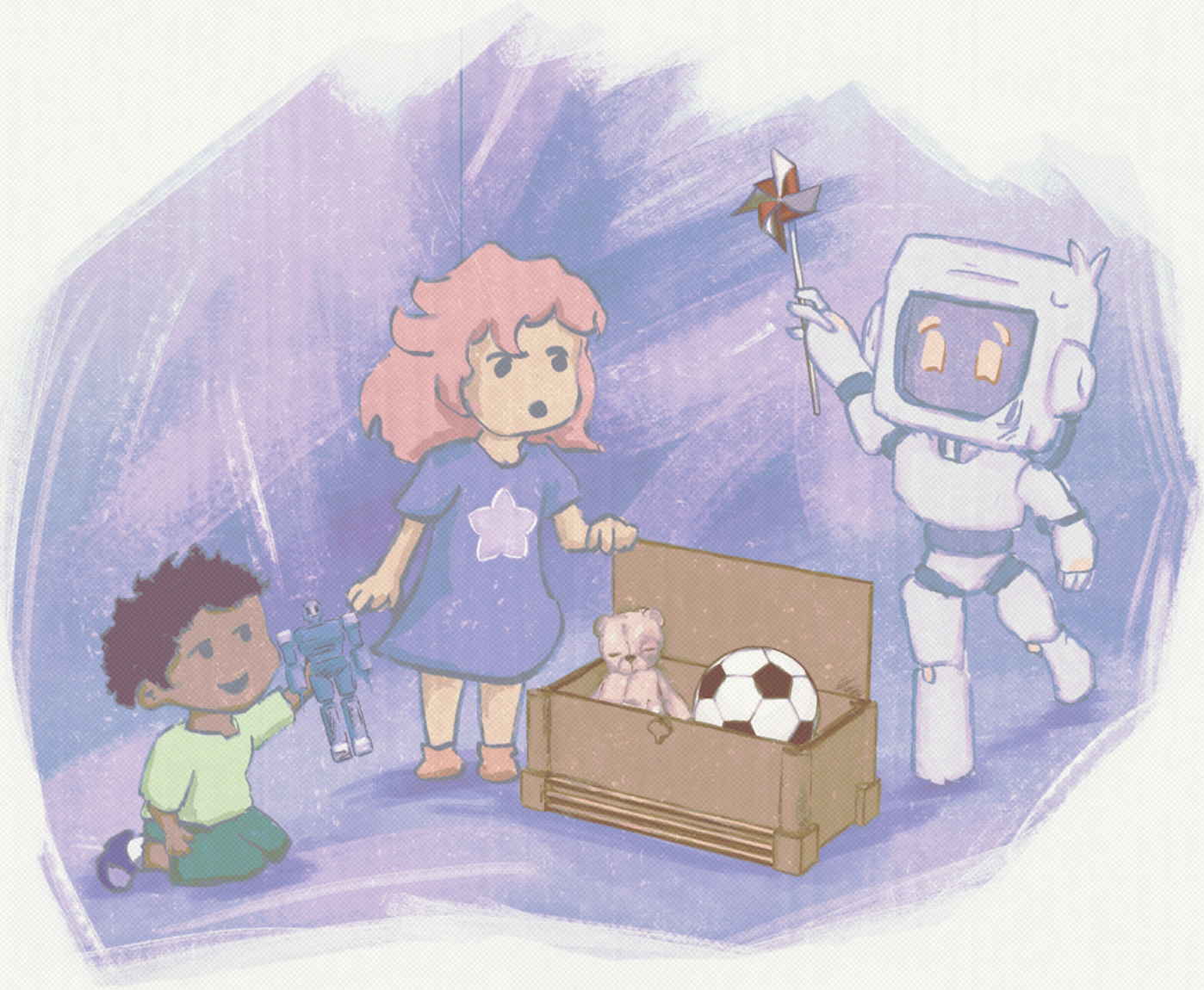
You use it, change it, but please take care!

It's made by folks from far and wide,

With robot dreams and coding pride.

So when you build, don’t go alone —

There’s code to share and paths well-known.



P

is for

Prompt

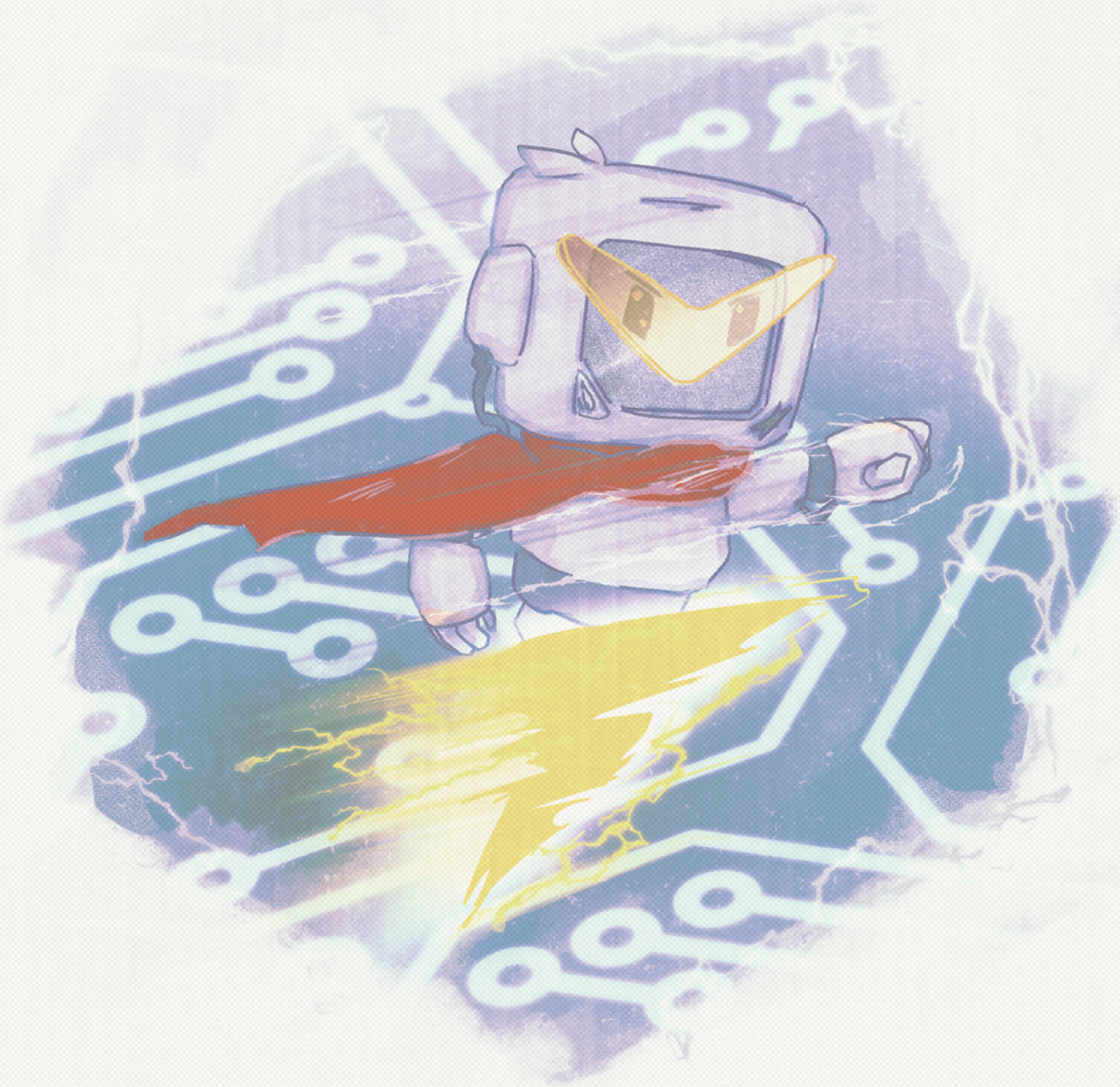
A prompt is like a magic spell,
To help your robot think or tell,
Write a story, tell a joke,
Think of tigers made of smoke.
Questions big and questions small,
Your robot helps to answer them all.

Q

is for

Quantum (Computing)

It's not your average kind of code—
It plays with bits in quantum mode.
It might just zap from here to there,
Like cats that fade, then reappear.
It's strange and fast and full of flair,
And helps find answers everywhere!



R

is for

Reinforcement Learning

Some bots learn by trying hard,

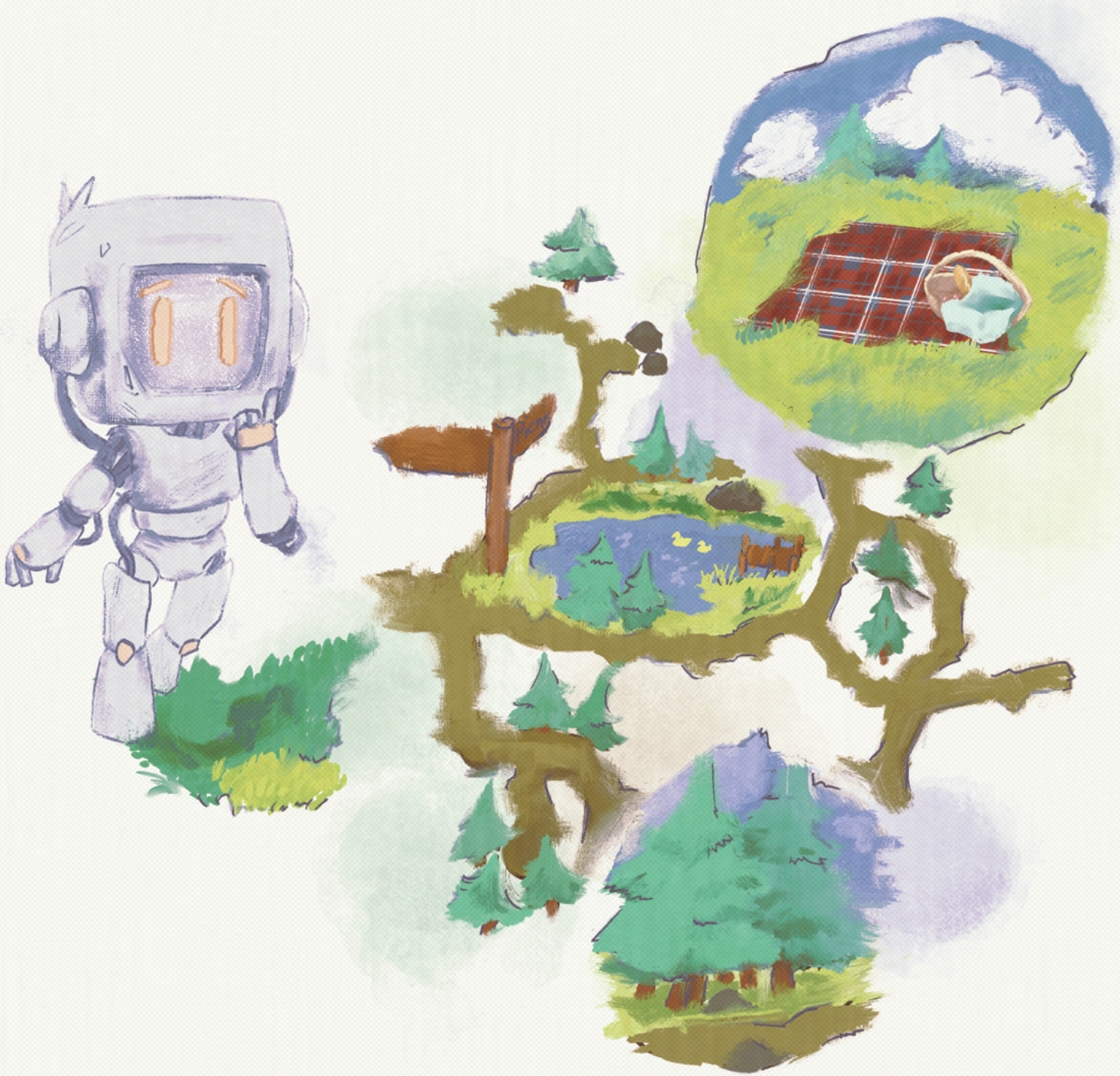
They do their chores, then get a star!

They try a path, then try again —

To reach the pond, the woods, or glen.

It might take time — but that's okay,

They learn a little every day!

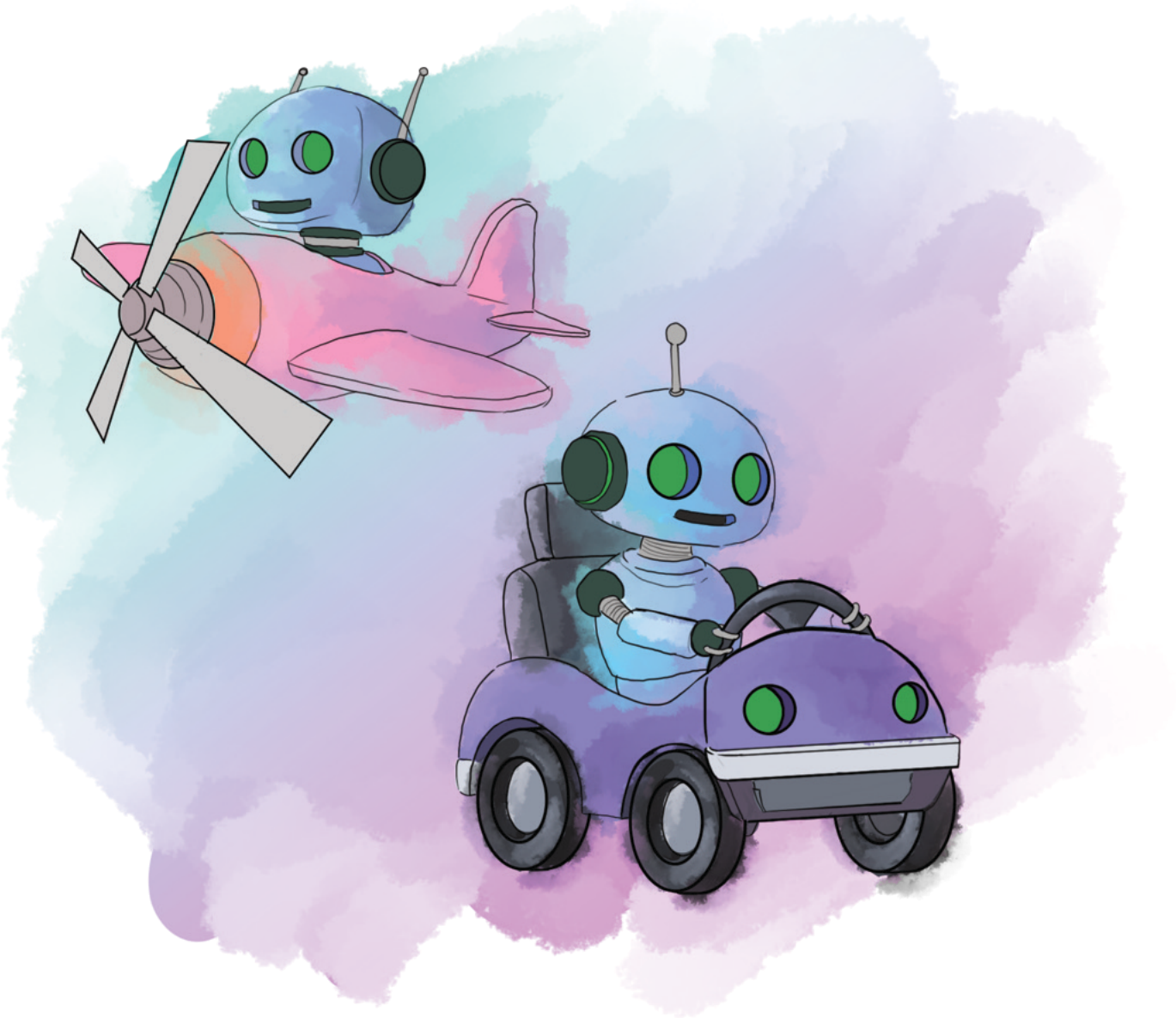


S

is for

Simulation

A world inside a game or screen,
Where bots can practise keeping things clean.
They drive fake cars and fly fake planes,
And try it out with no real-world pains.
It's play pretend—but helps them grow,
A place where AI learns to know!



T

is for

Training Data

To teach a bot, you'll need a tonne—

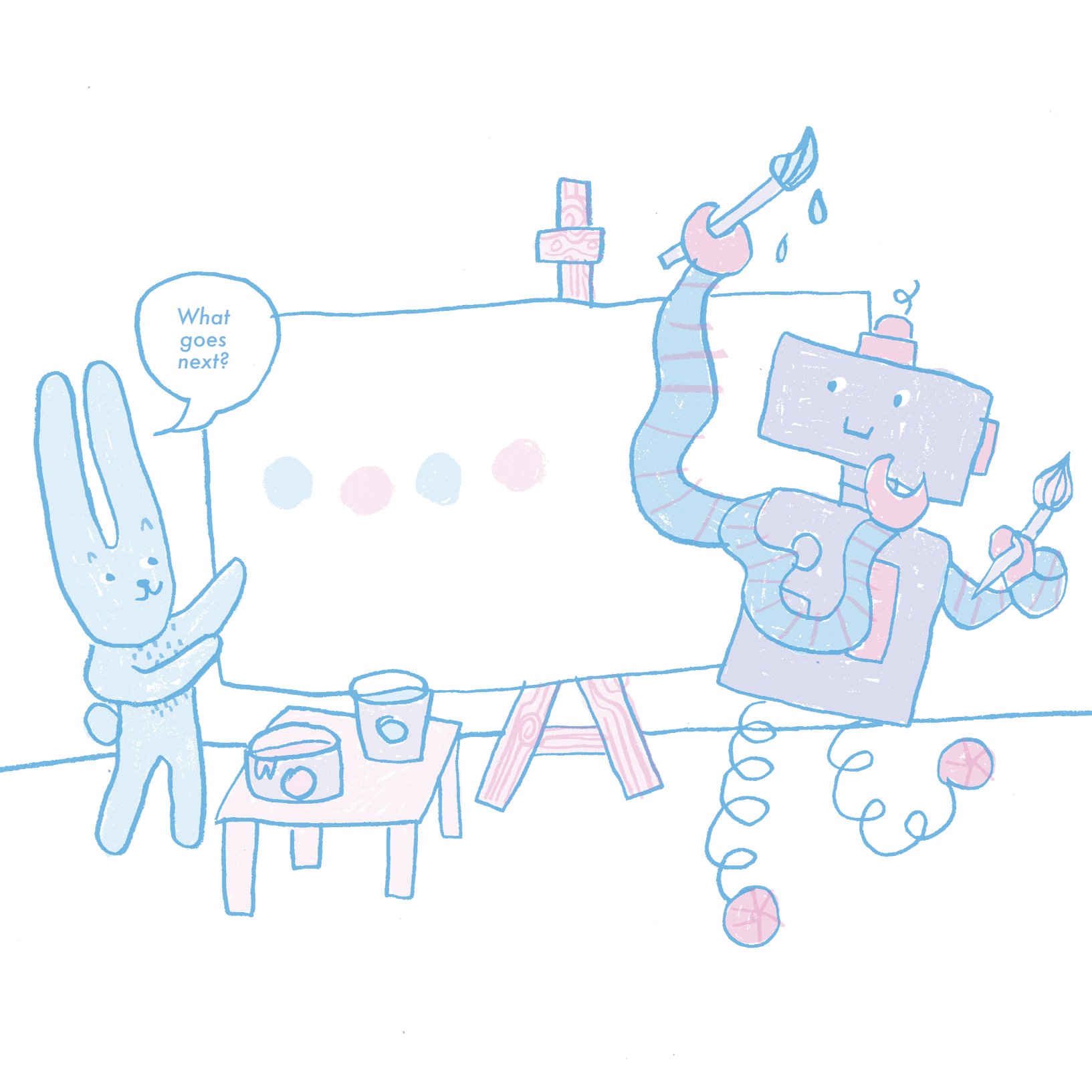
Of pictures, words, and other fun!

Like "Here's a car" and "That's some cheese,"

Or "Rabbits simply never say please."

The more examples that you show,

The more your robot's in the know.


What goes next?

U

is for

Unsupervised Learning

There's no teacher in the class,

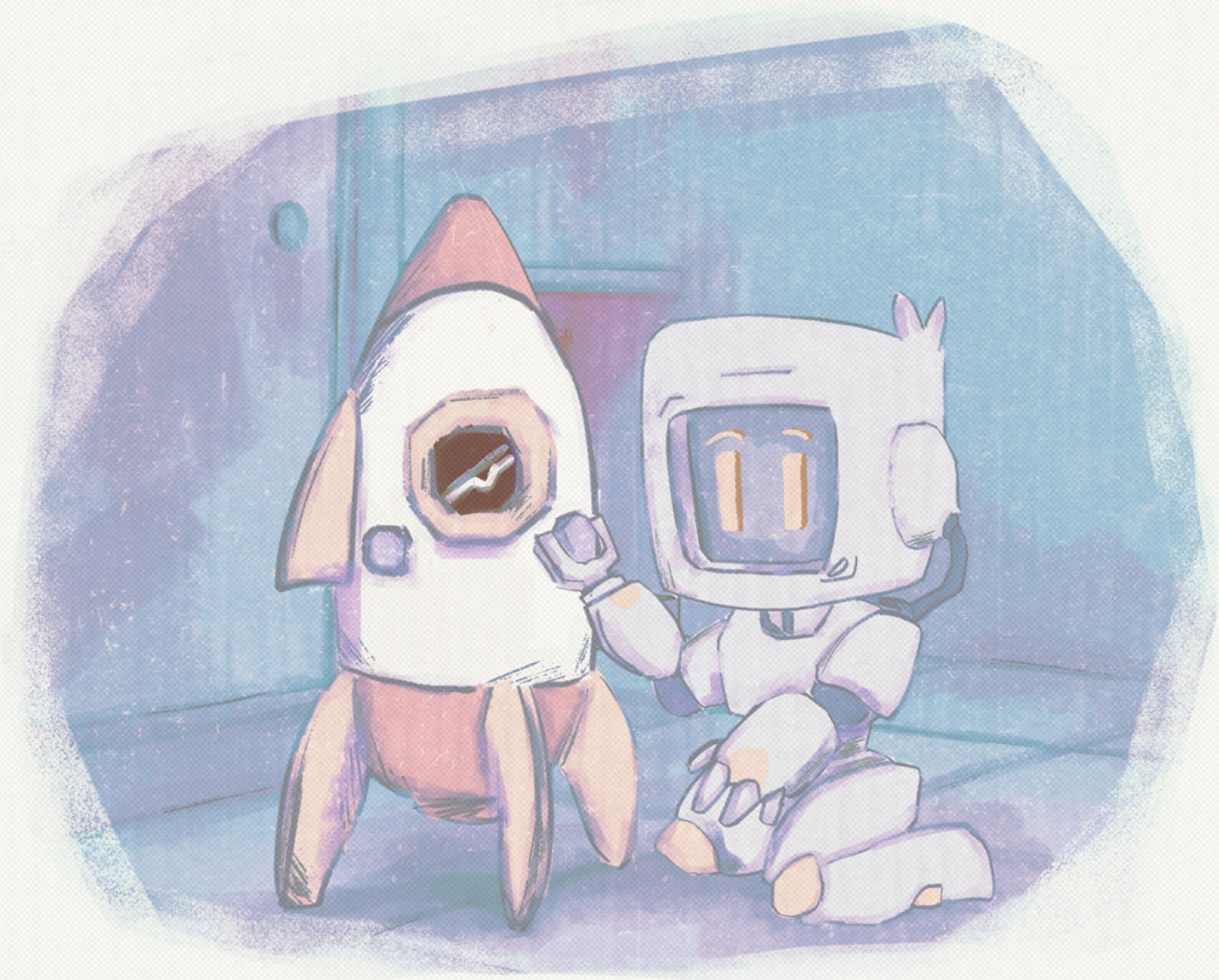
Just our robot, learning fast.

It looks for patterns all alone—

Like giant's feet or dino bones!

Sometimes it spots a hidden clue,

That people never knew, they knew.

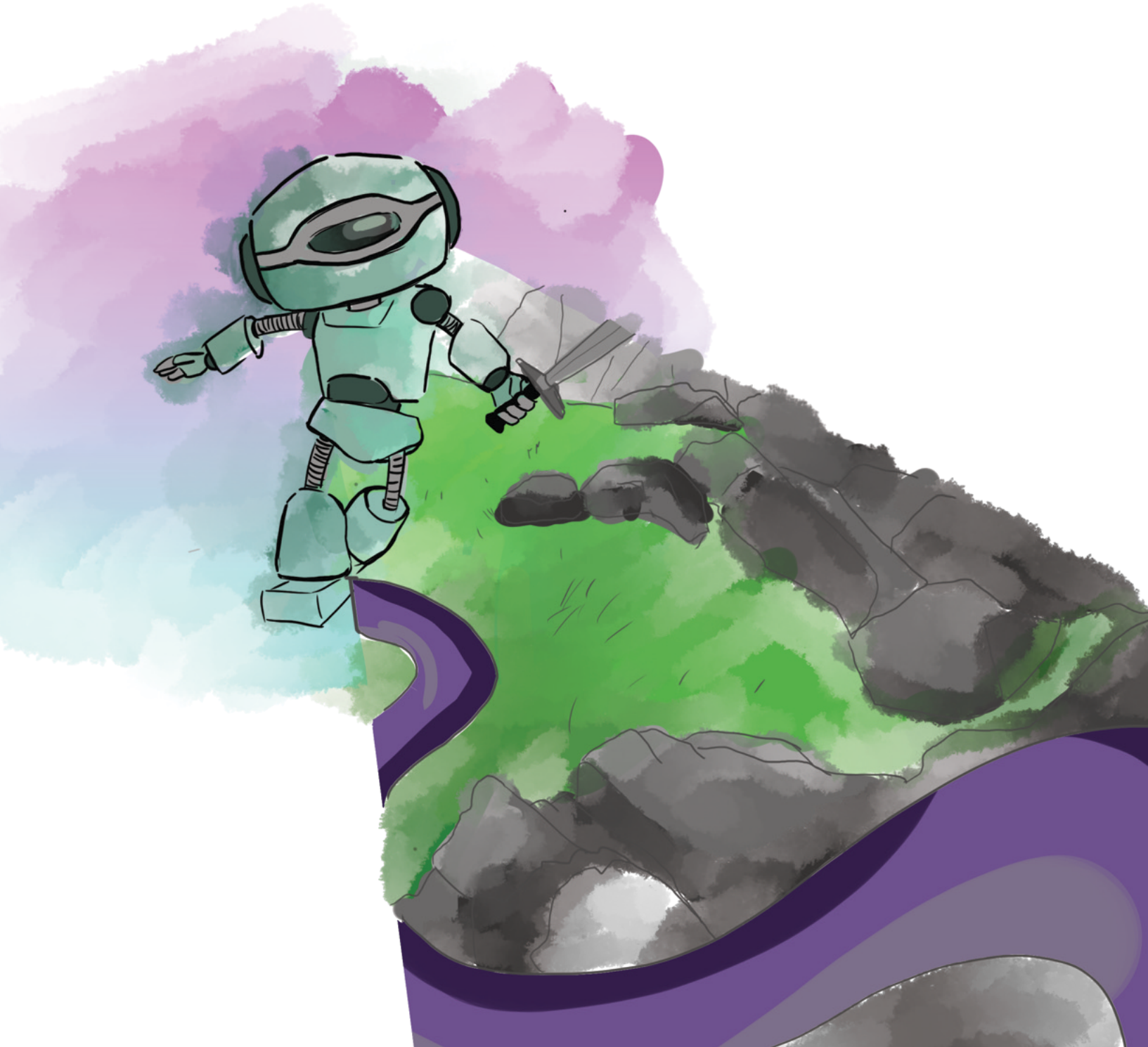


V

is for

Virtual Reality

Put on your goggles, and dive right in,
To see the sharks and tickle their skin!
Fly and float through space to Mars,
Or bounce around in jelly cars.
It’s make-believe, but feels so true—
A magical world that's built for you.



W Weak AI

is for

Some bots are clever, but just one way,

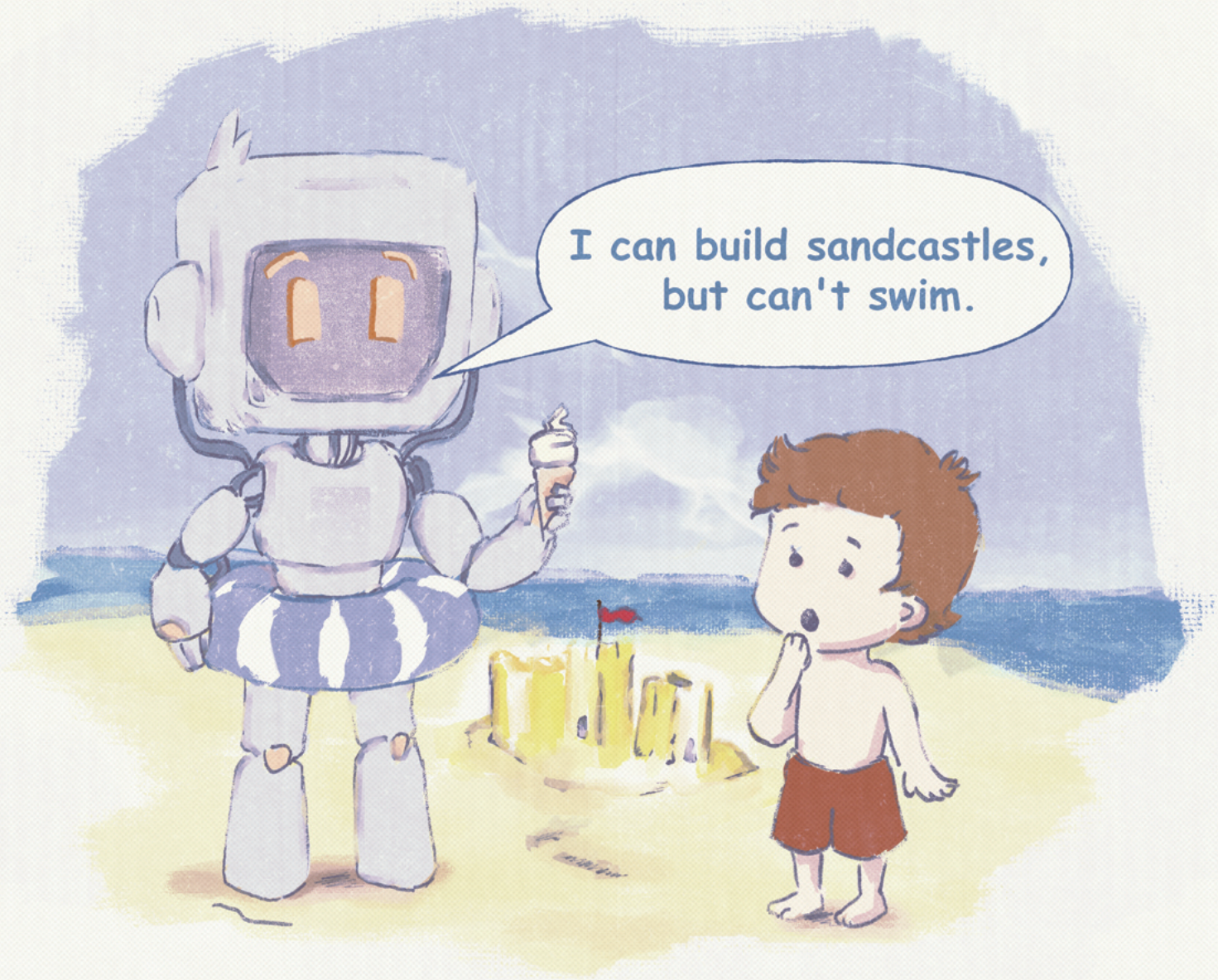
Like building castles by the bay.

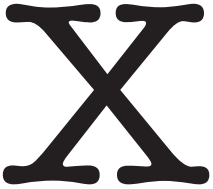
They're made for tasks, not every chore —

Don't ask them much, or they'll ignore!

They're great at what they're built to do,

But swimming might not be on their to-do!


I can build sandcastles, but can't swim.



is for

XAI (Explainable AI)

Some robots think and make a choice,

But sometimes we want to hear their voice!

“This coat is red — it makes me pop!”

“This hat feels nice, I’ll never swap!”

They tell us why they think and choose,

So we can understand their views.


It's super comfortable...
and I like how the colour matches my micro-processors!

Y You

is for

Y is for You, the star of the show,

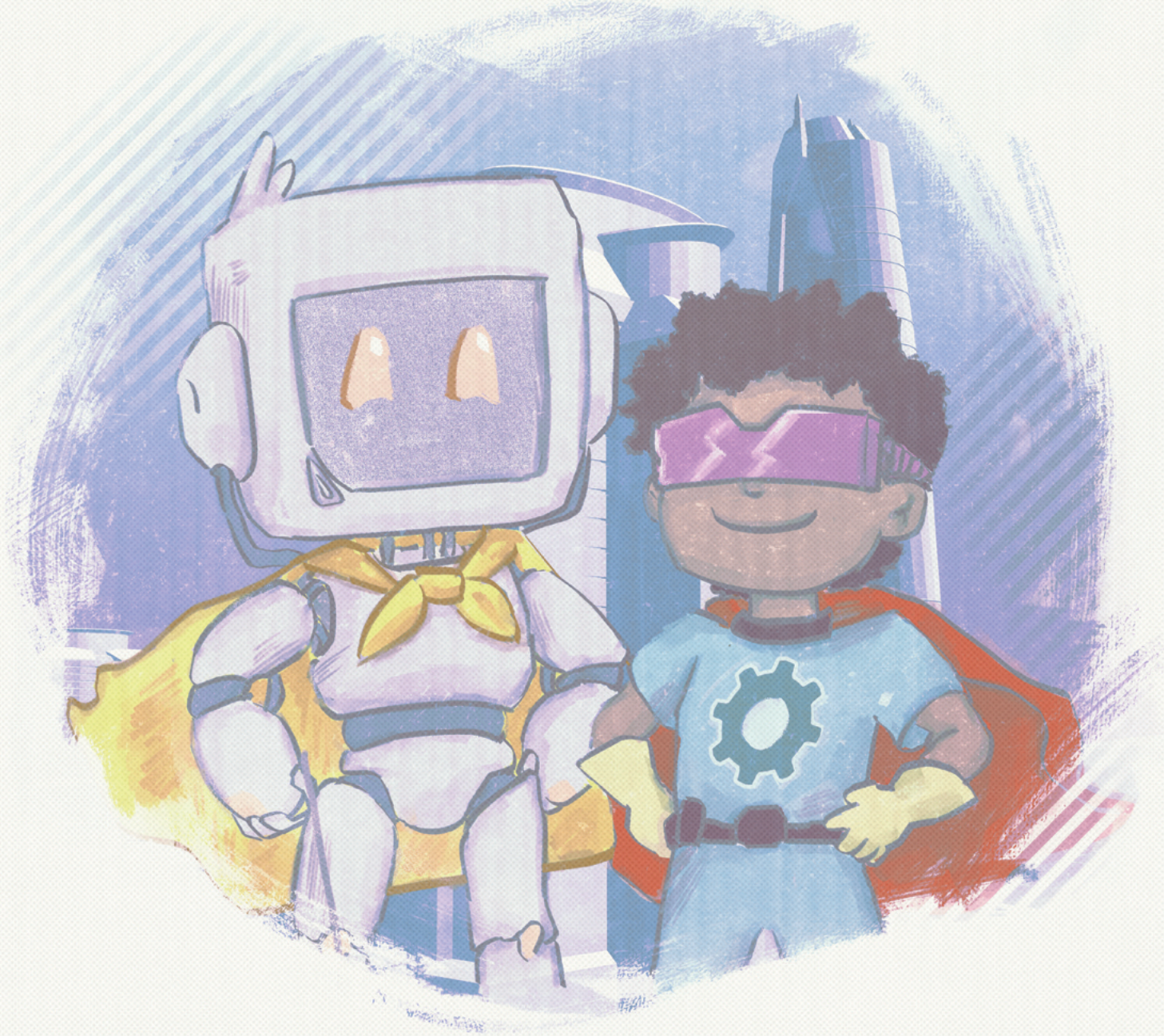
The robots need you to help them grow.

You let them learn and show them how,

To share and care and spark a "wow!"

They might be smart, but you're the glue —

They work their best when they work with you.

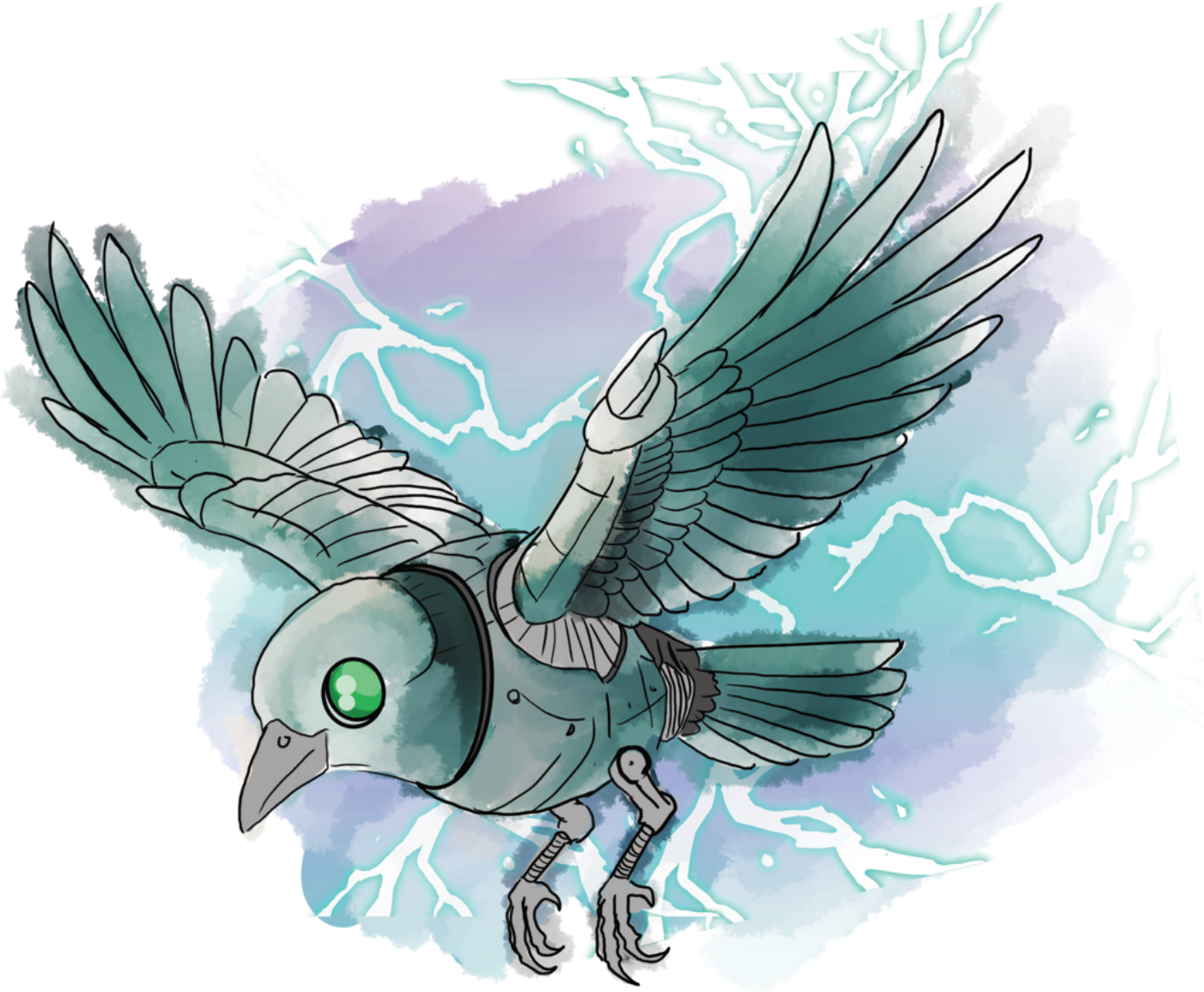


Z

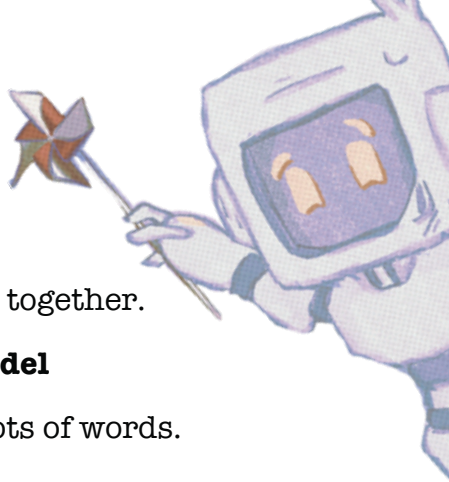
is for

Zero Latency

No time to wait—just tap and go,
It's gone already, like a lightning crow!
There's no lag and there's no delay,
Just zapping and jumping far away.
For asking questions or making art,
It's blazing fast right from the start!



Robot Reminders: A Glossary of Big Ideas



Algorithm

A list of steps that tells a robot what to do.

Bias

When a robot learns something unfair.

Chatbot

A robot that chats like a person (but isn't!).

Data

The stuff we share that robots learn from.

Ethics

Rules about what's right and wrong.

Fairness

Treating everyone kindly and equally.

Generative AI

AI that makes pictures, poems, and more.

Hallucination

When AI makes things up that aren't true.

Image Recognition

Teaching robots to see and guess.

Jargon

Tricky tech words (just ask if unsure!).

Knowledge Graph

A web of facts linked together.

Large Language Model

A robot that's read lots of words.

Machine Learning

When robots learn by spotting patterns.

Natural Language Processing

Robots learning to understand words.

Open Source

Code you can use, change, and share.

Prompt

The magic words you give to an AI.

Quantum Computing

Super-fast, wiggly robot thinking.

Reinforcement Learning

Learning by trying and earning rewards.

Simulation

A pretend world for practising.

Training Data

The examples a robot learns from.

Unsupervised Learning
Learning with no teacher!

Virtual Reality
A digital world you can visit.

Weak AI
Robots that do just one thing well.

XAI
When robots explain how they made a choice.

You
The hero who helps robots learn and grow.

Zero Latency
Super-fast tech with no waiting!

Also mentioned:

AI
Smart machines that learn, talk, or play.

Bot
A short word for robot.

Code
Instructions for computers.

Model
A trained robot brain.

Supervised Learning
A robot learns with labelled examples and a teacher.

Token
A little piece of a word that AI understands.

Make Your Own AI!

Ready to build a robot friend? You're the creator now!

Step 1: What does your AI do?

Does it tell jokes? Help with homework? Cook invisible pancakes?

Step 2: What does it look like?

Draw your robot here! Does it have wings? Wheels? Giant fluffy ears?

Step 3: What will it learn from you?

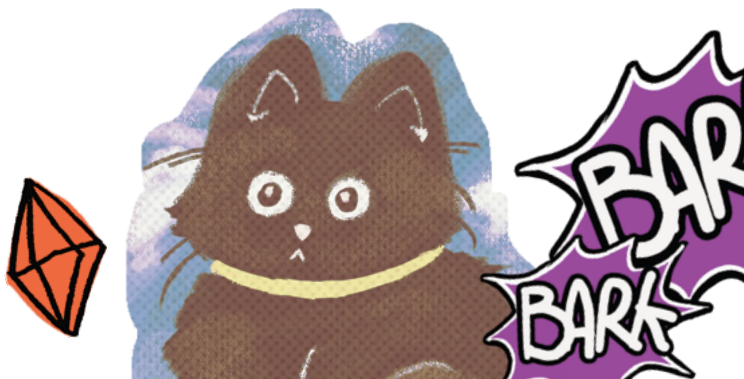
What will you teach it? Kindness? Funny dances? Cat facts?

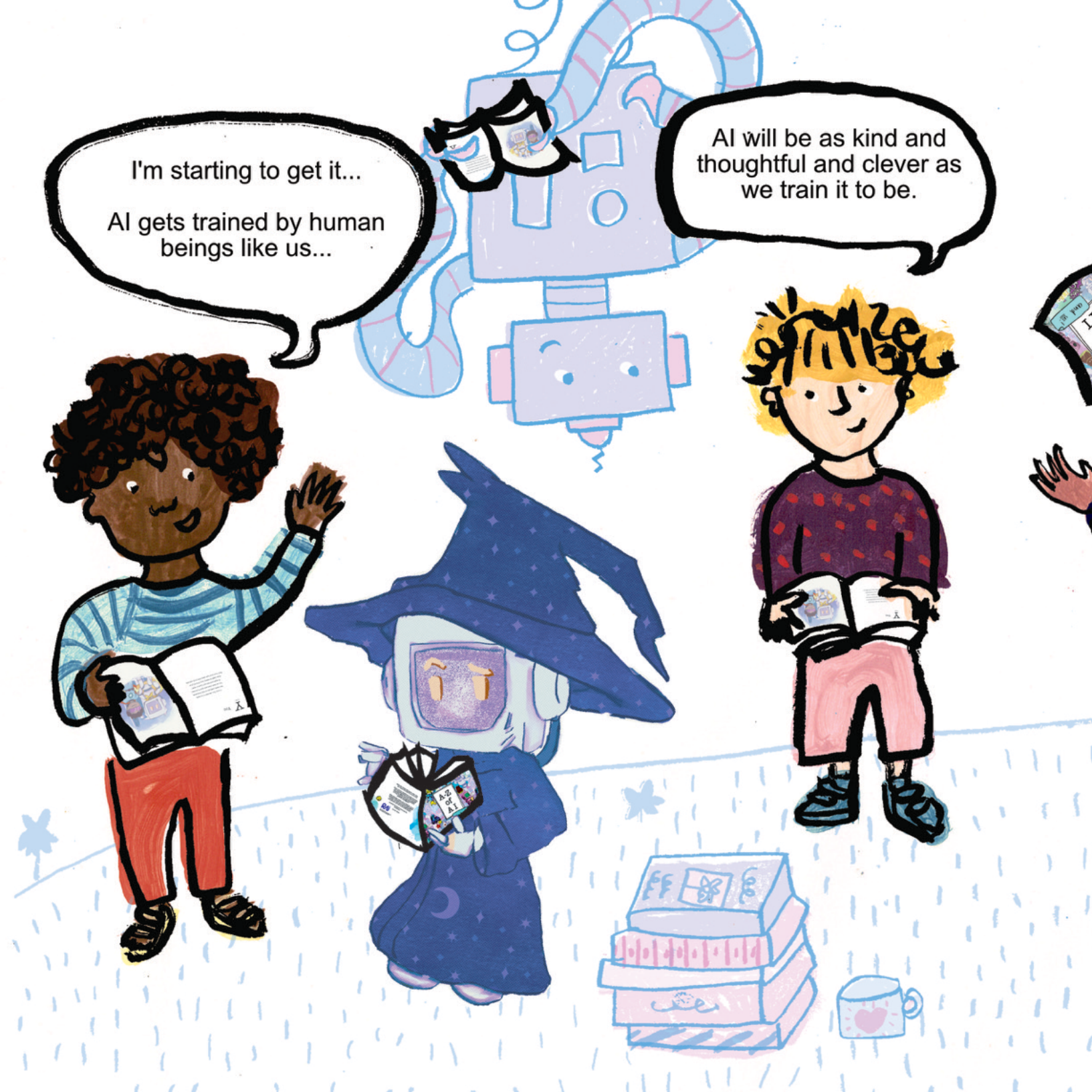
Step 4: What will you name it?

Every good robot needs a brilliant name, what's yours called?

Step 5: What makes it fair and kind?

How will your AI treat others nicely? What rules will it follow?




I'm starting to get it...
AI gets trained by human beings like us...
AI will be as kind and thoughtful and clever as we train it to be.
A-Z OF AI


That's enough about Artificial Intelligence for now...
how about a different kind of AI?
Another ice cream anyone?!
A-Z of AI
A-Z of AI

Meet the robots who paint, chat, dream, and dance through the A to Z of AI.

From curious questions to silly surprises, this rhyming picture book takes young explorers (ages 4 and up) on a playful journey through the big ideas behind artificial intelligence.

With friendly robots, joyful rhymes, and a sprinkle of science, it's a book that sparks wonder, for kids with big imaginations (and grown-ups who love clever books).

Because the future isn't just for machines...

it's for YOU!

This book was funded with the support of RAi UK.

Author: Oli Buckley

Illustration: Jake Bacon, Rose Feather and Helen Quinlan