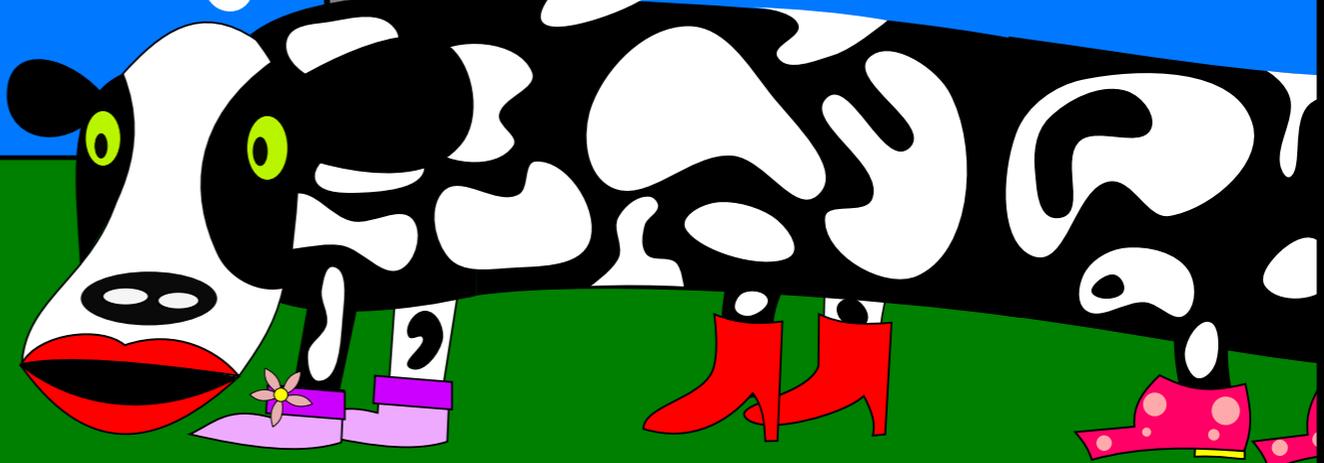


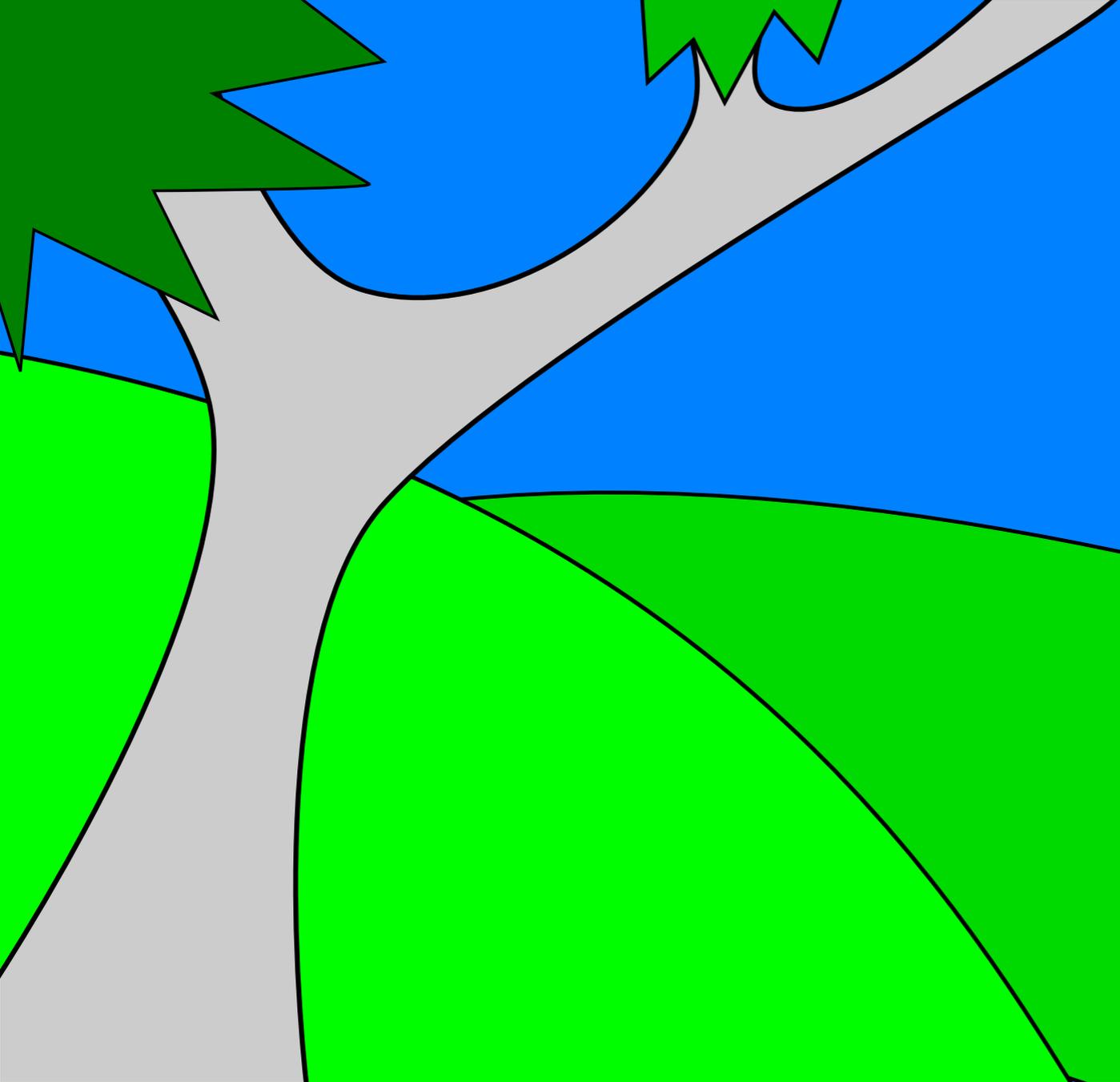
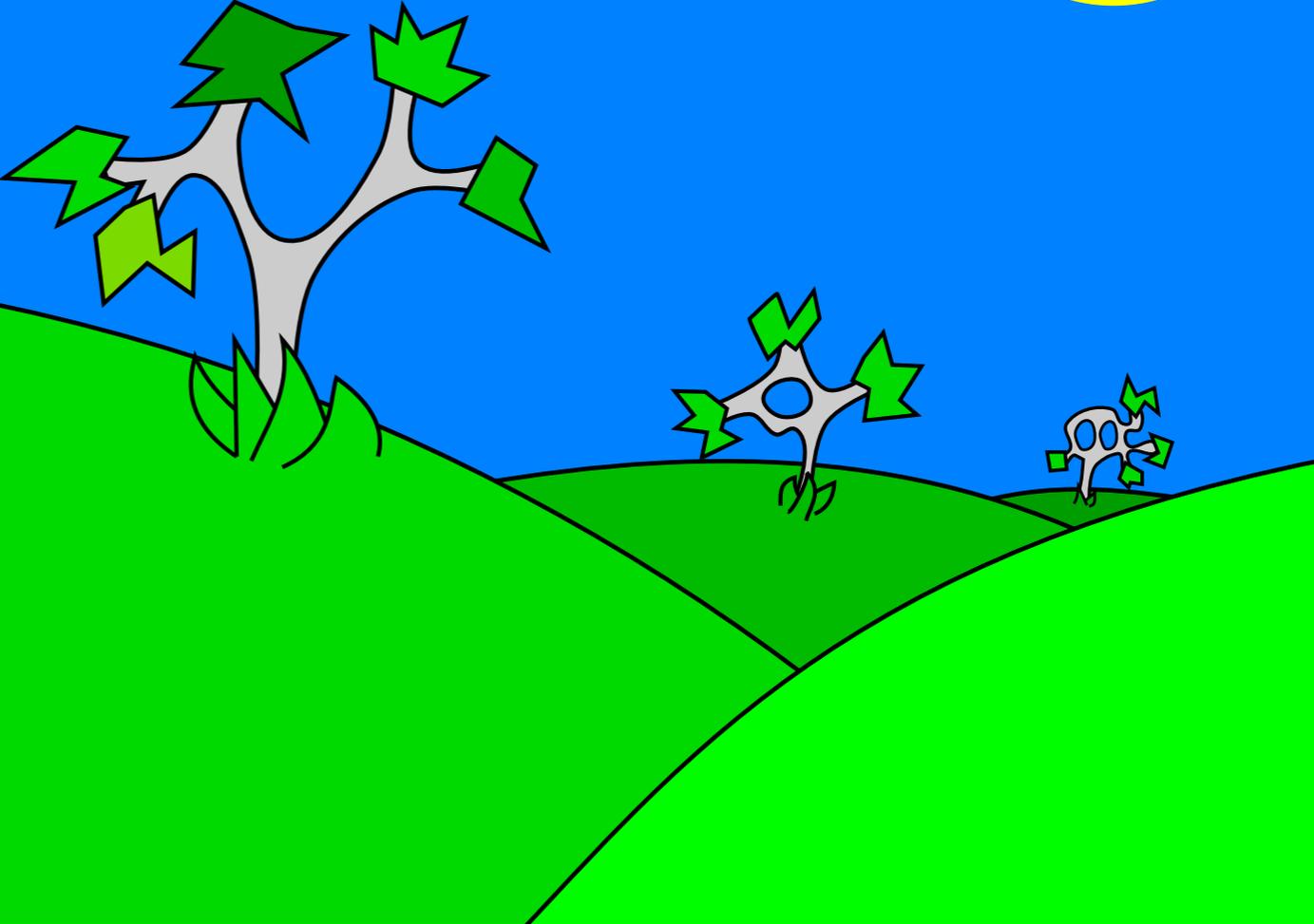
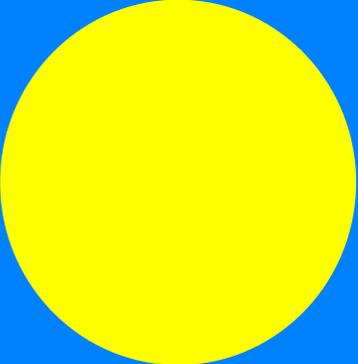


Life on the
Infinite Farm

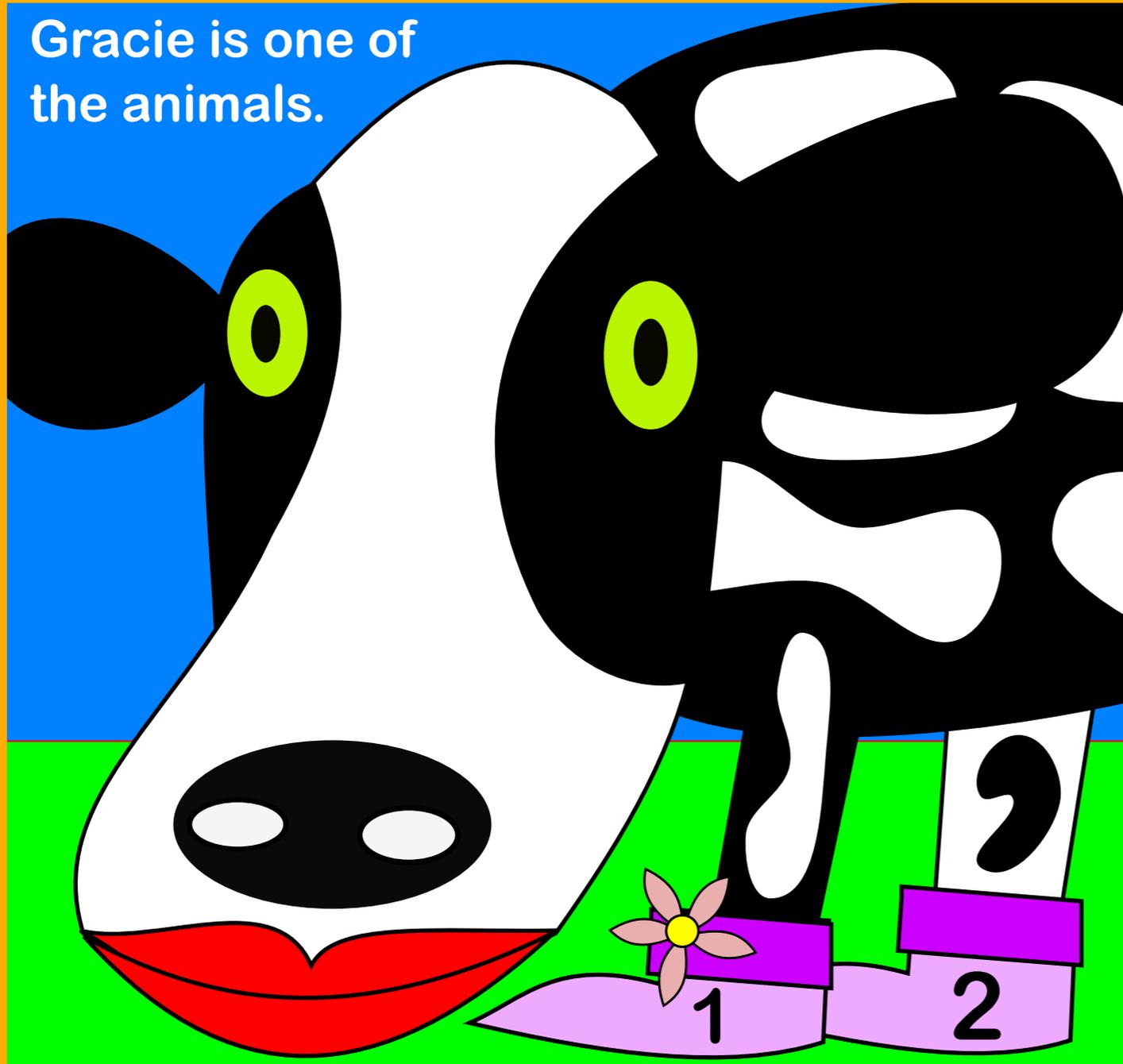


Richard Evan Schwartz

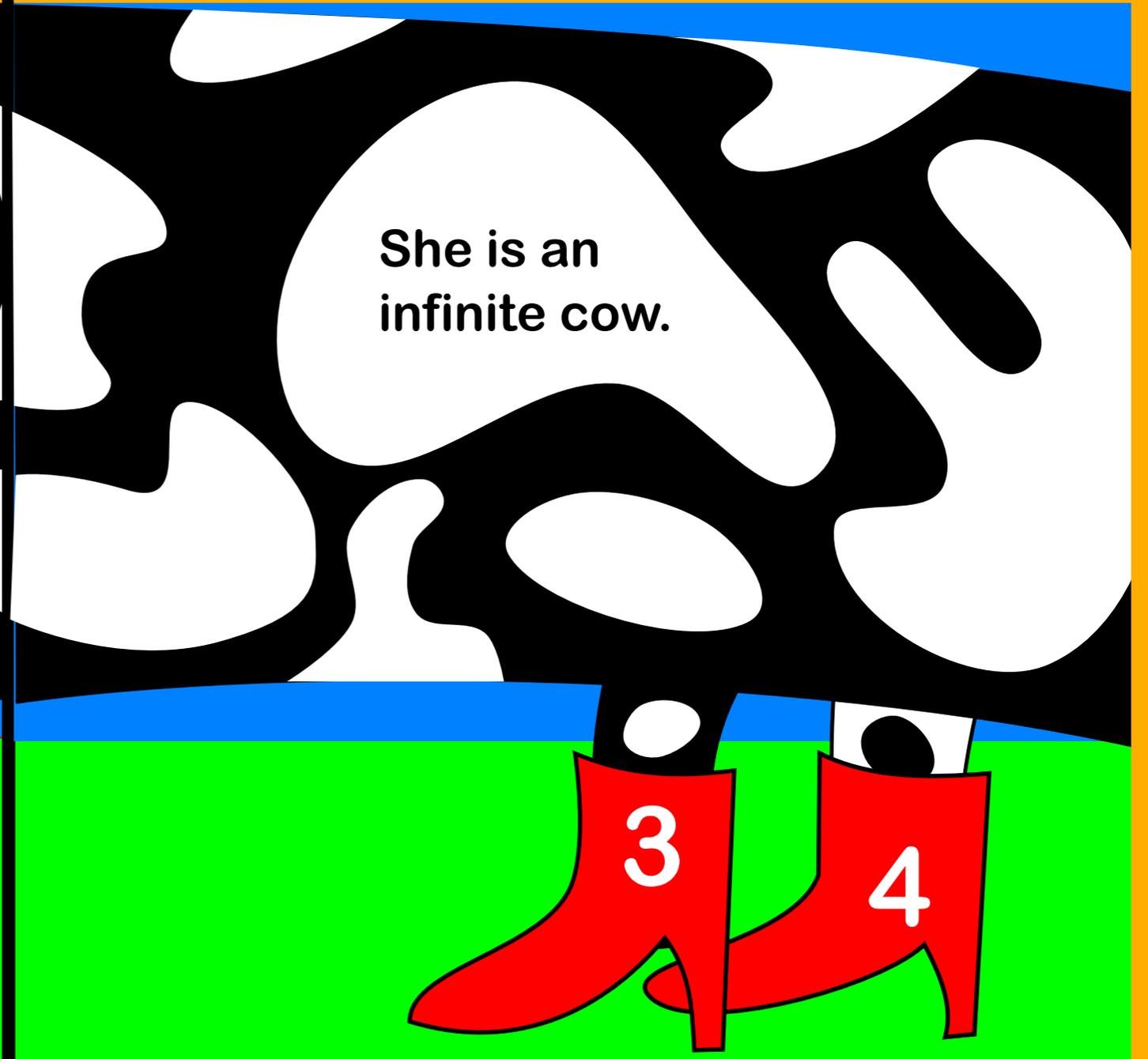
Who are the animals on the infinite farm?



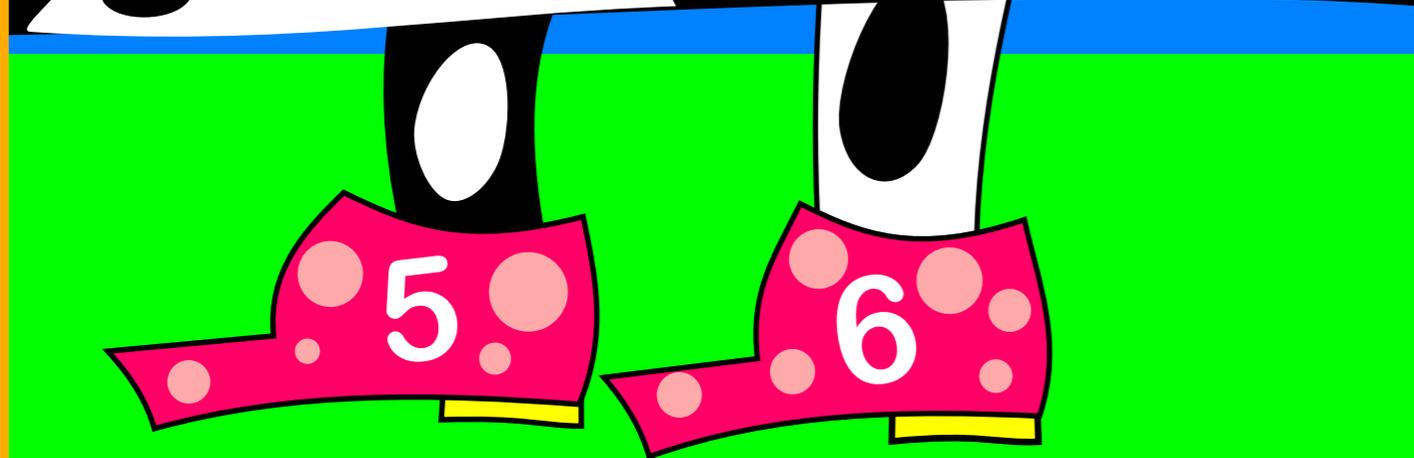
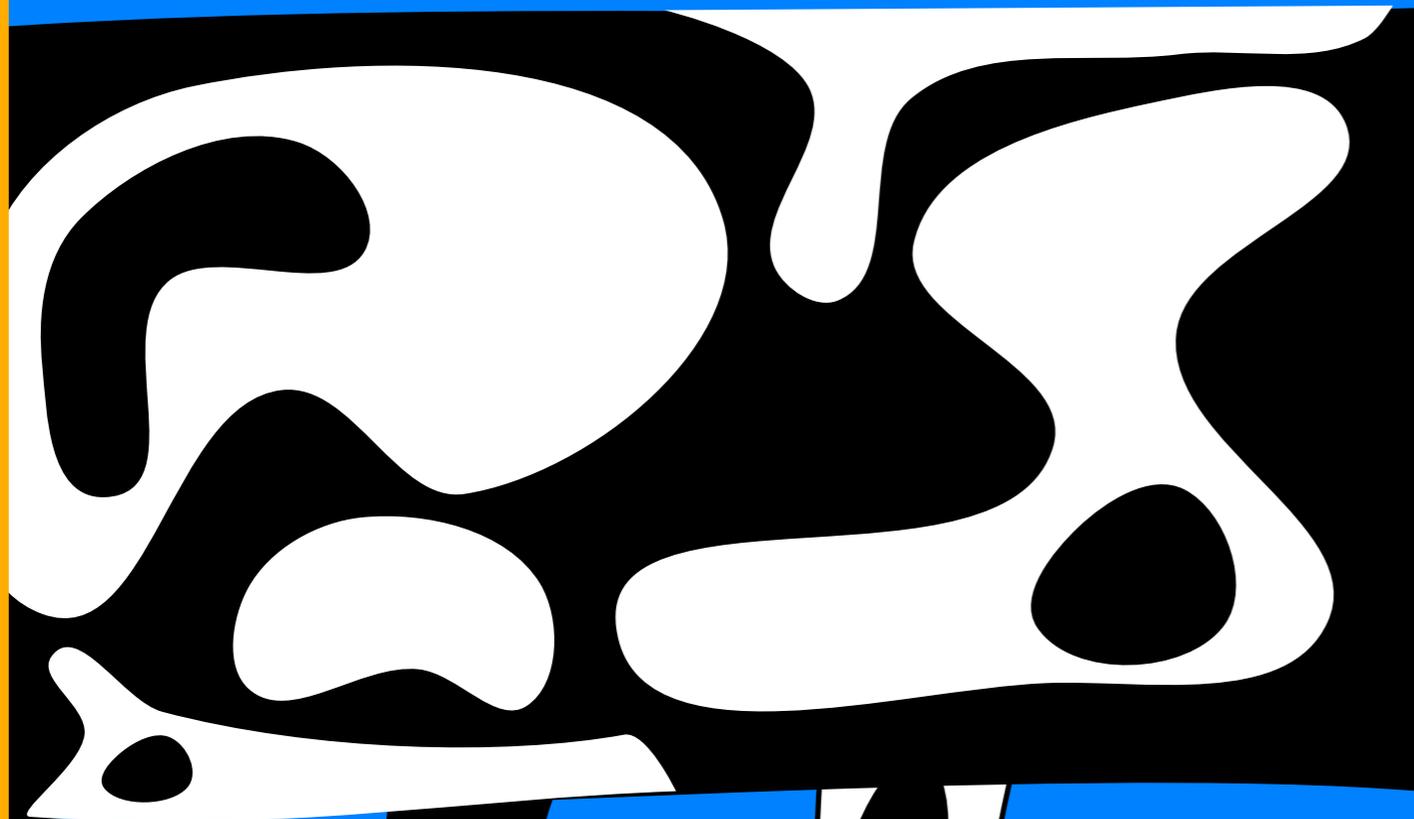
Gracie is one of
the animals.



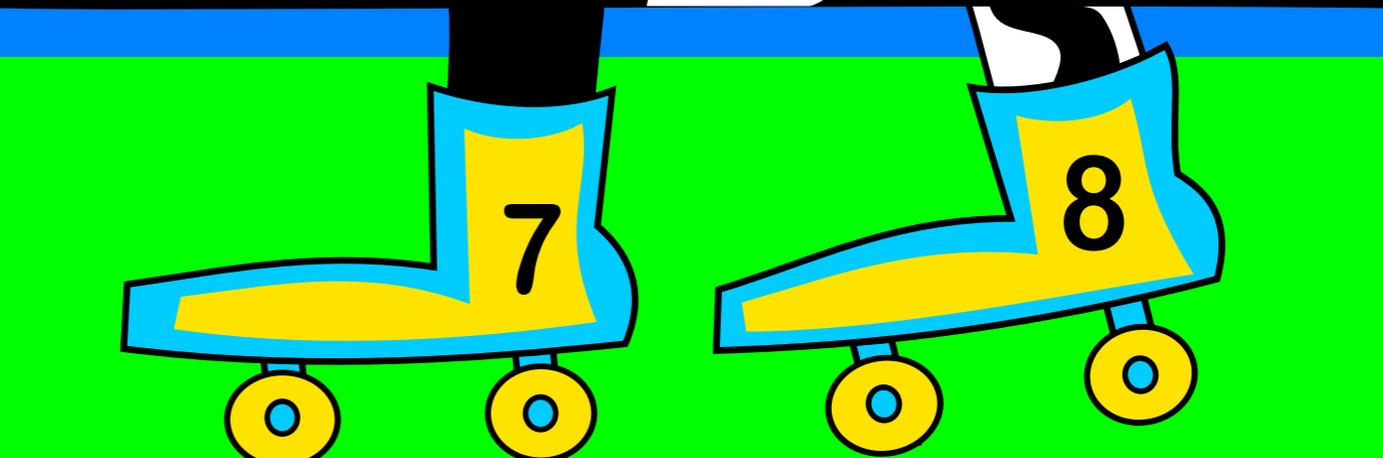
She is an
infinite cow.



Gracie loves shoes.

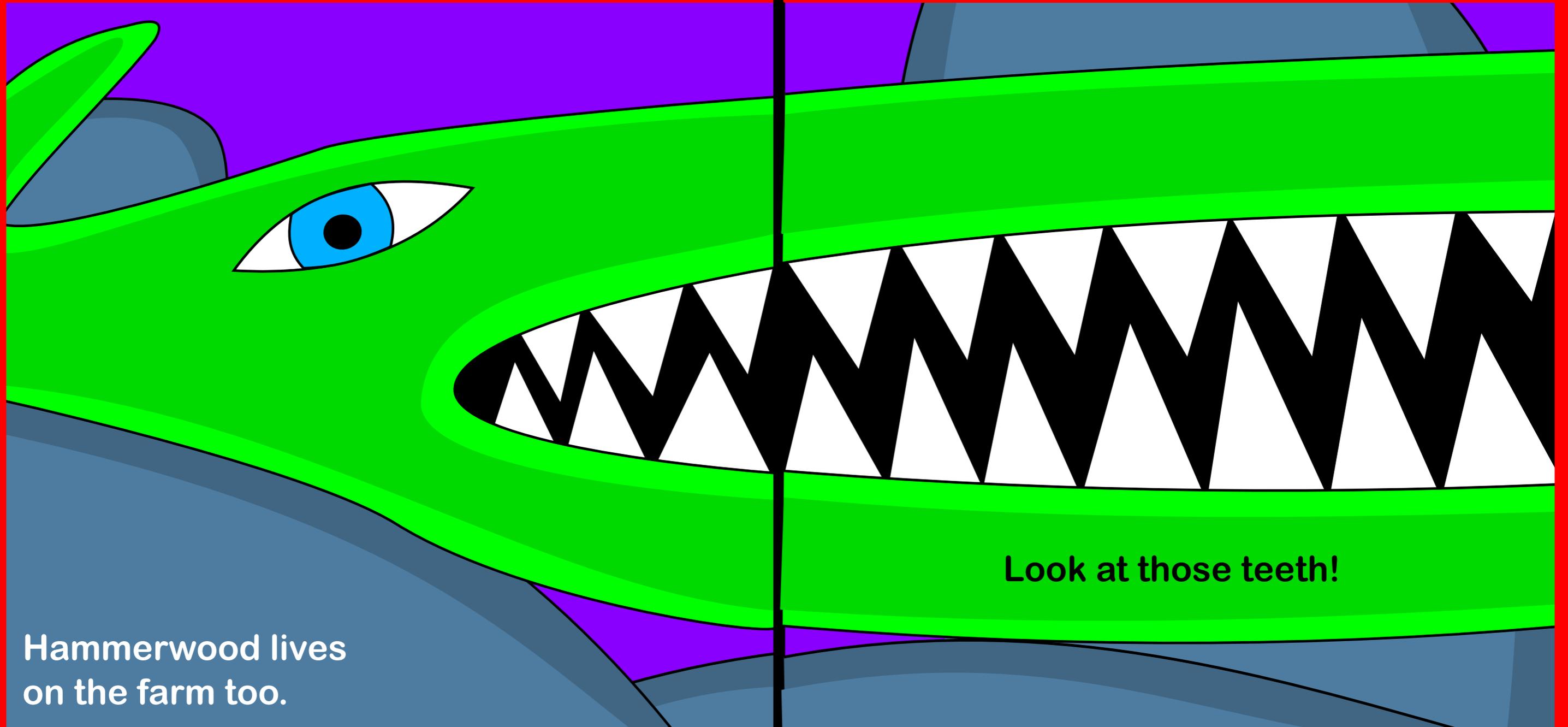


She has one on every foot ...



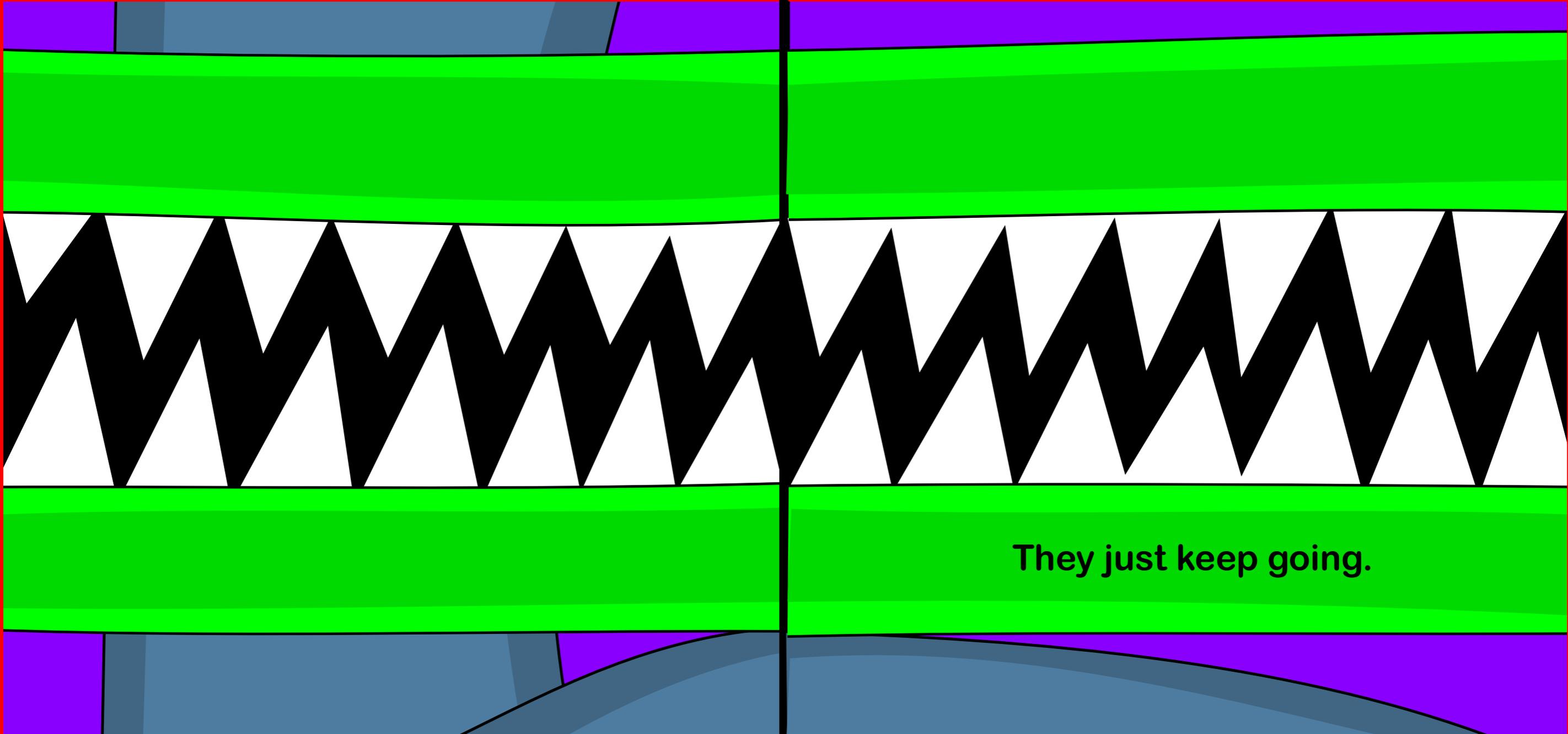


and her
feet
go on
forever!



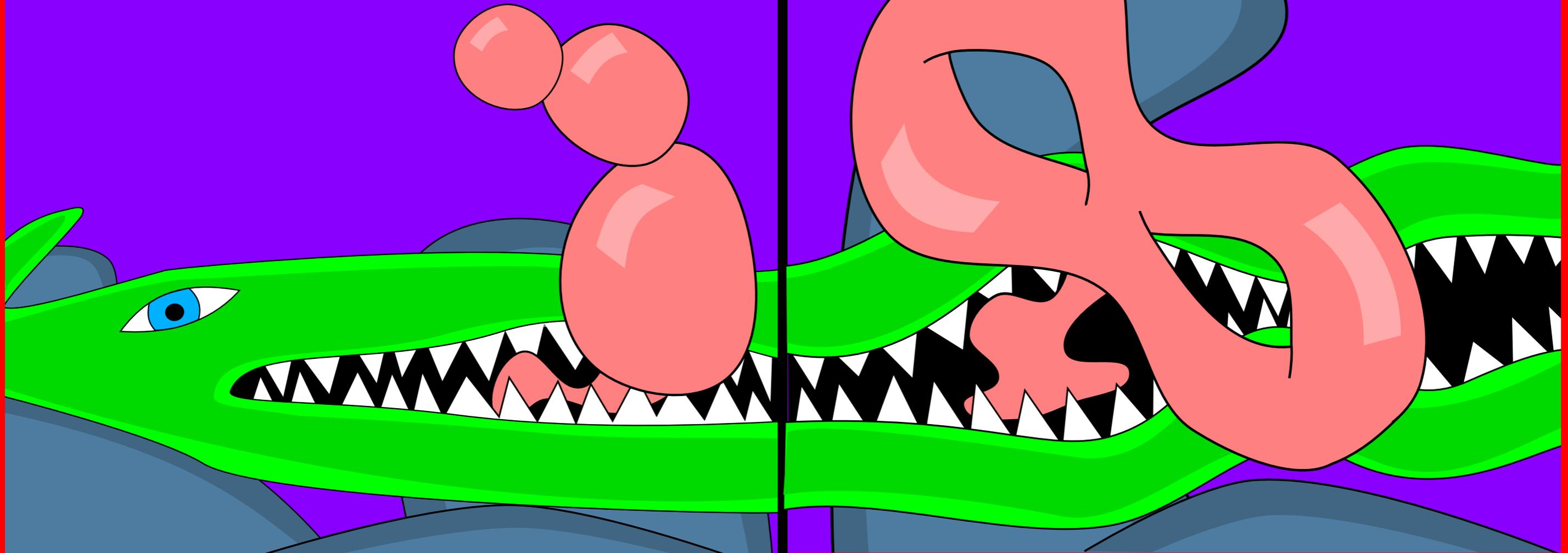
Hammerwood lives
on the farm too.

Look at those teeth!



They just keep going.

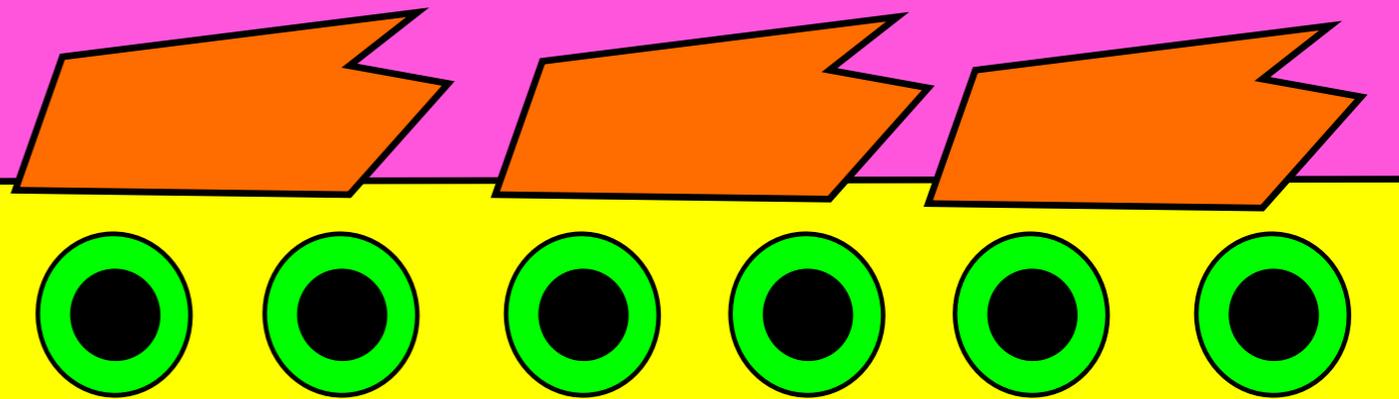
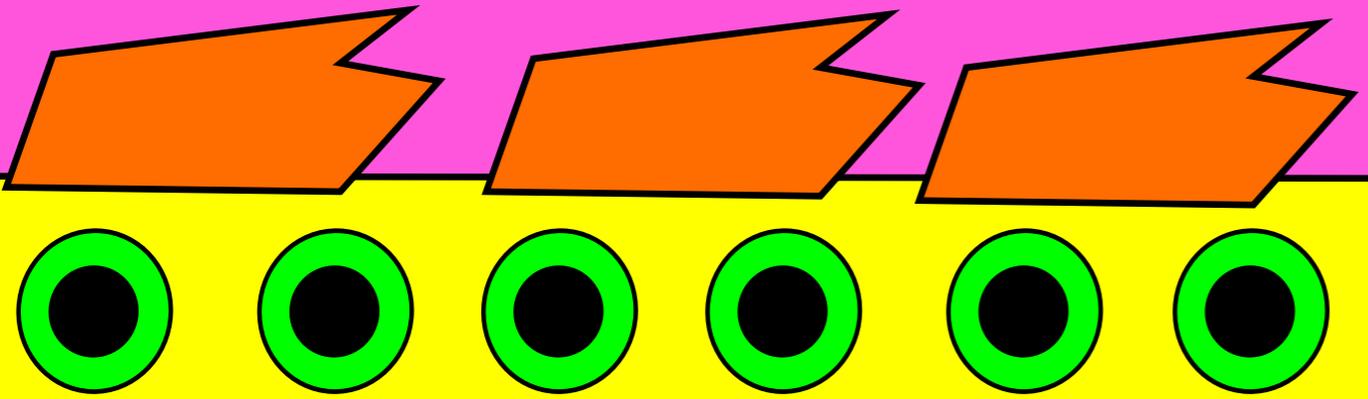
Hammerwood loves bubble gum.
Even though he has a hard time
chewing it, he loves the taste...



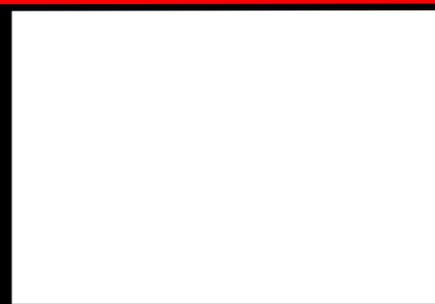
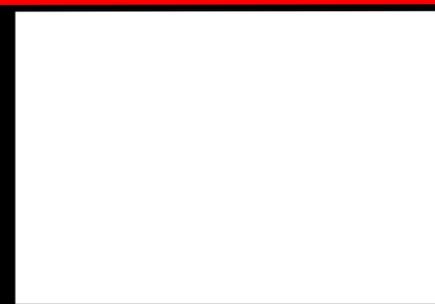
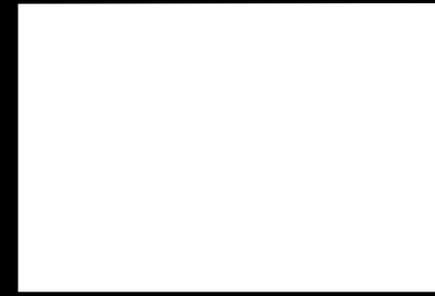
and the bubbles.

Paddington also lives on the farm.

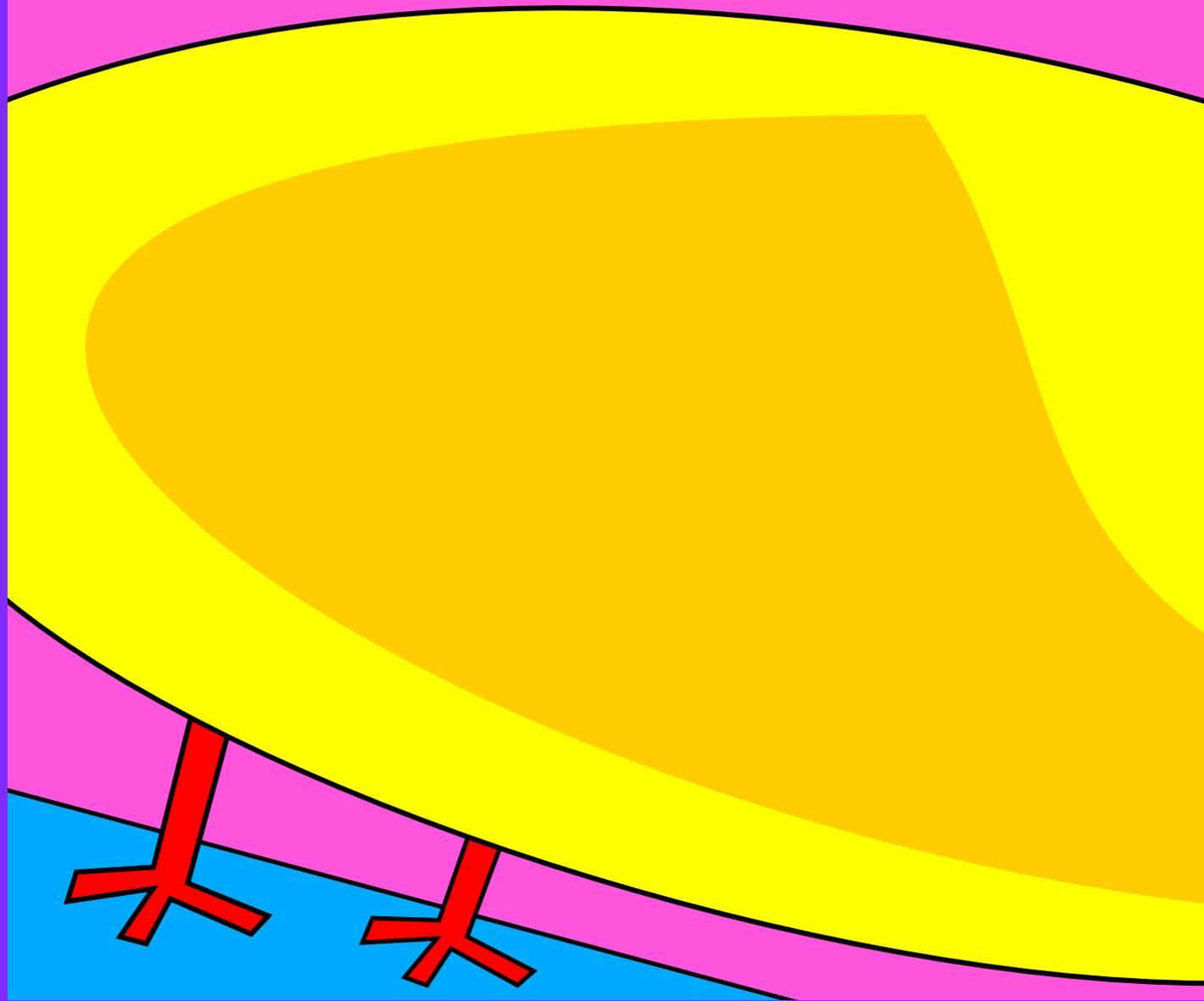
Maybe we're standing too close..
If you step back, you can see that ...



What is he?

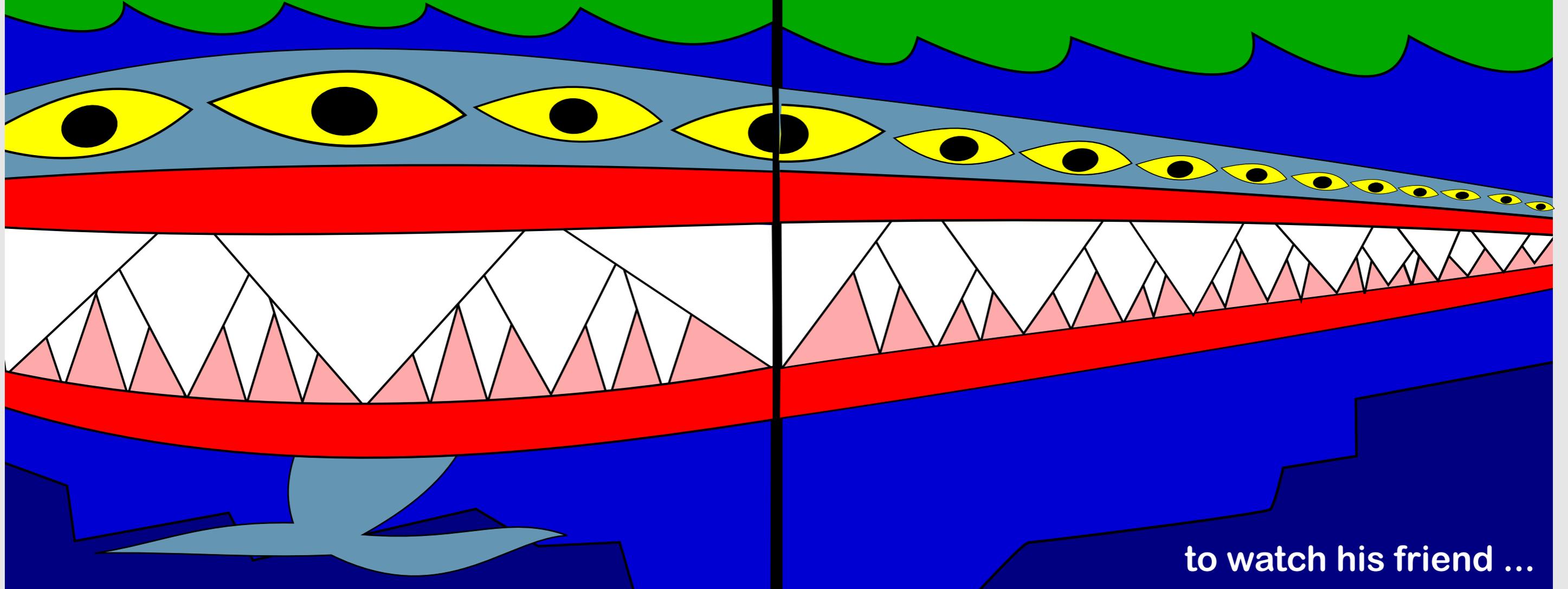


he is an infinite chicken.

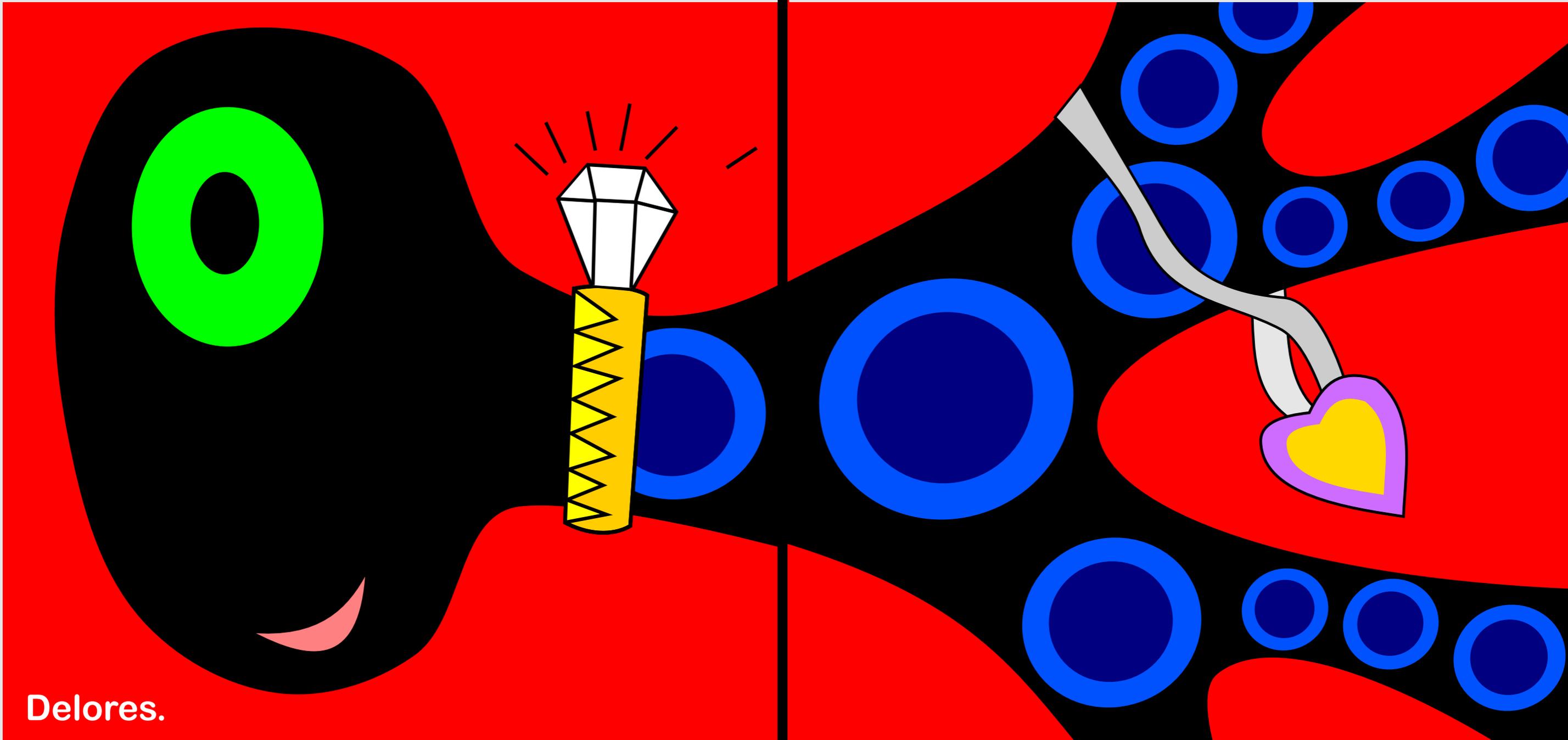


On the infinite farm,
Chickens have teeth too.

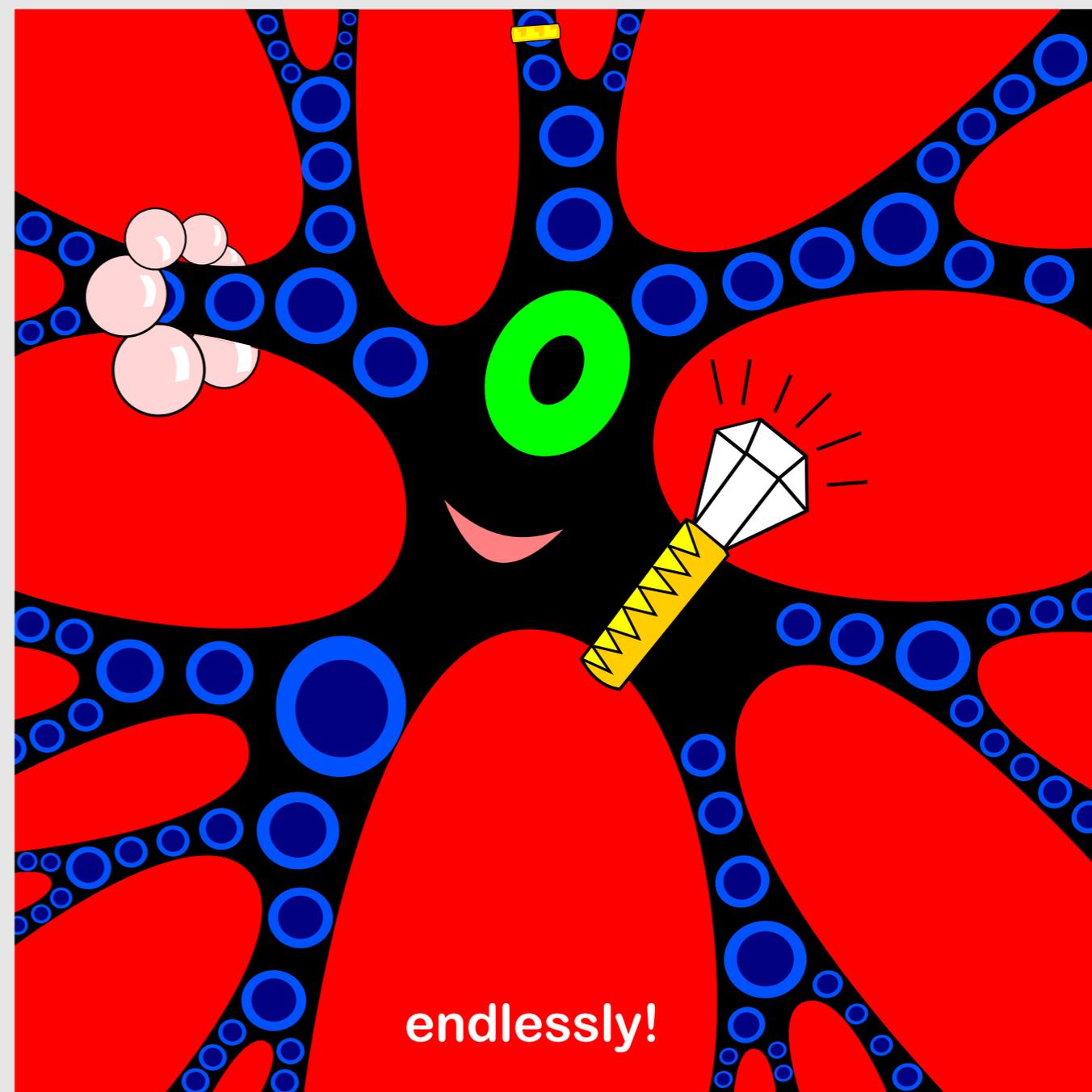
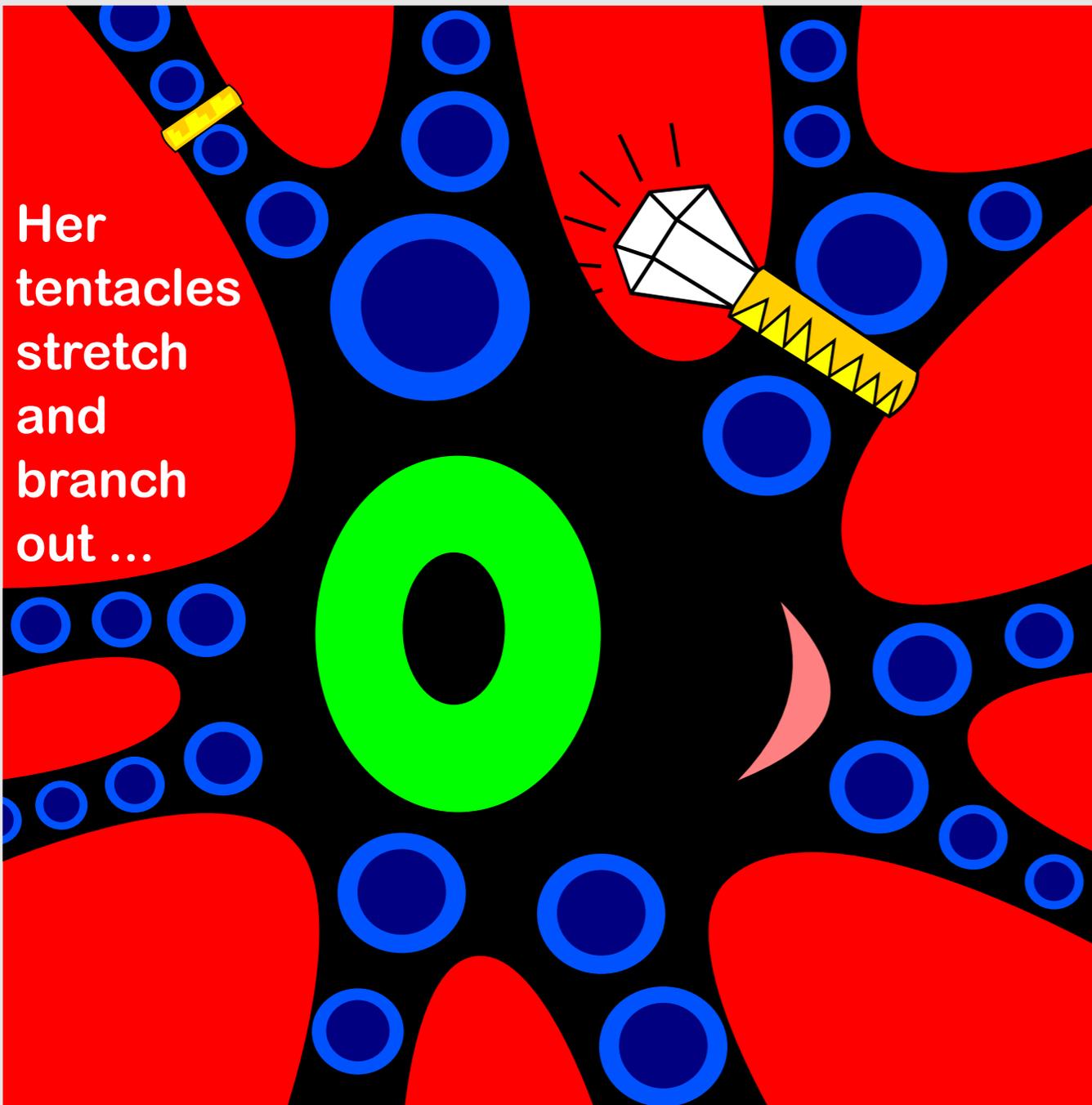
Nelson lives in the pond, and
uses his infinite row of eyes ...



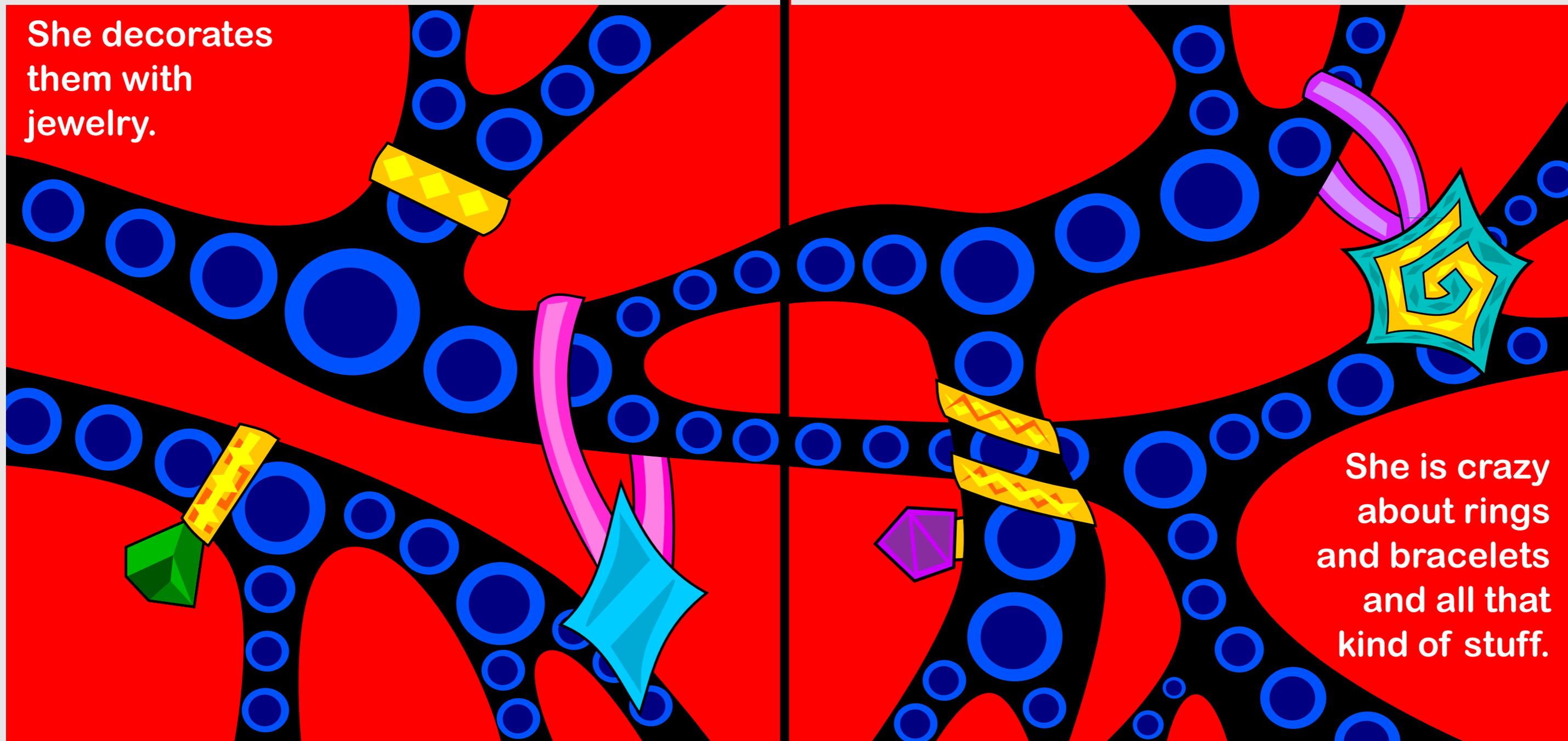
to watch his friend ...



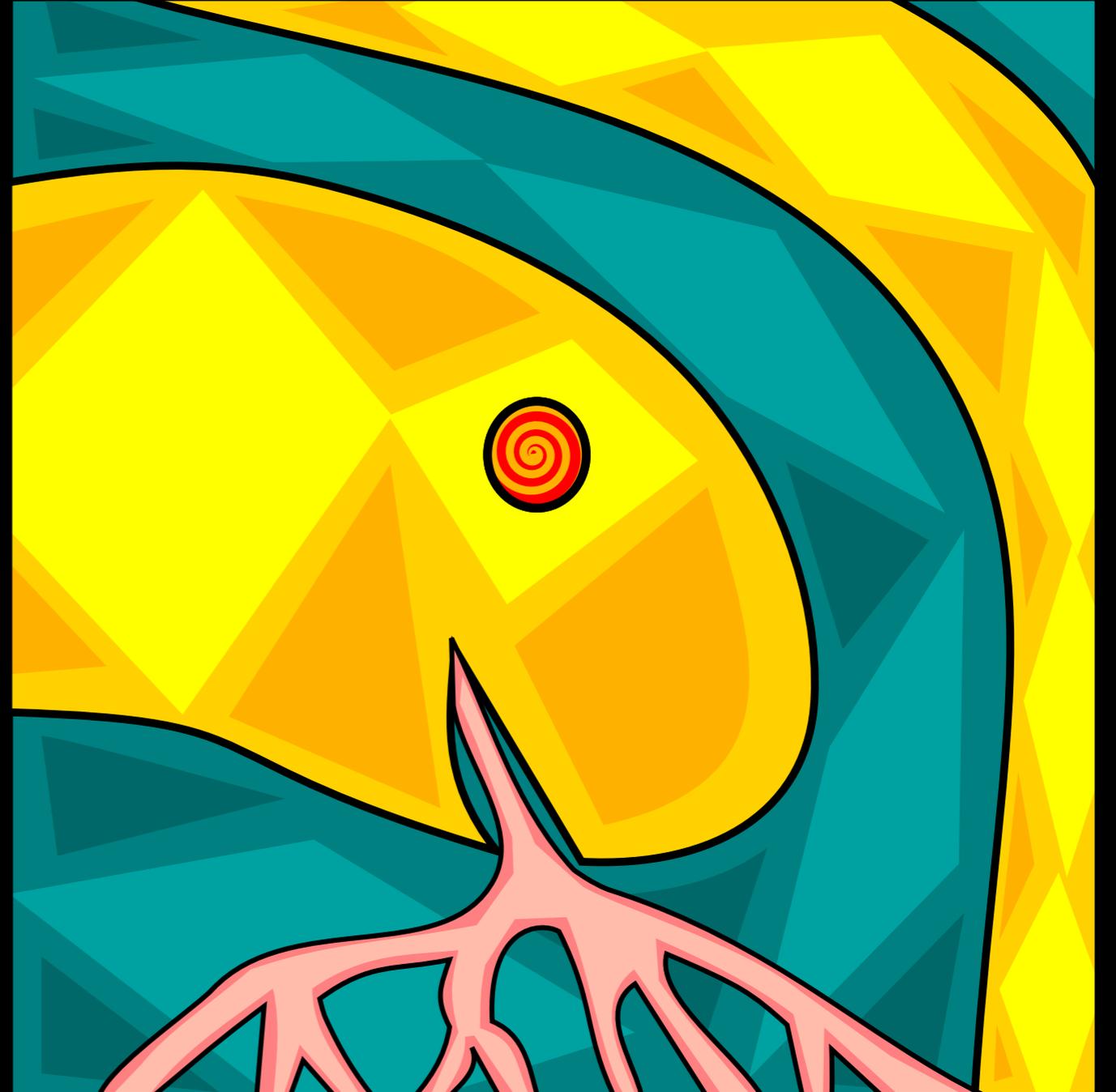
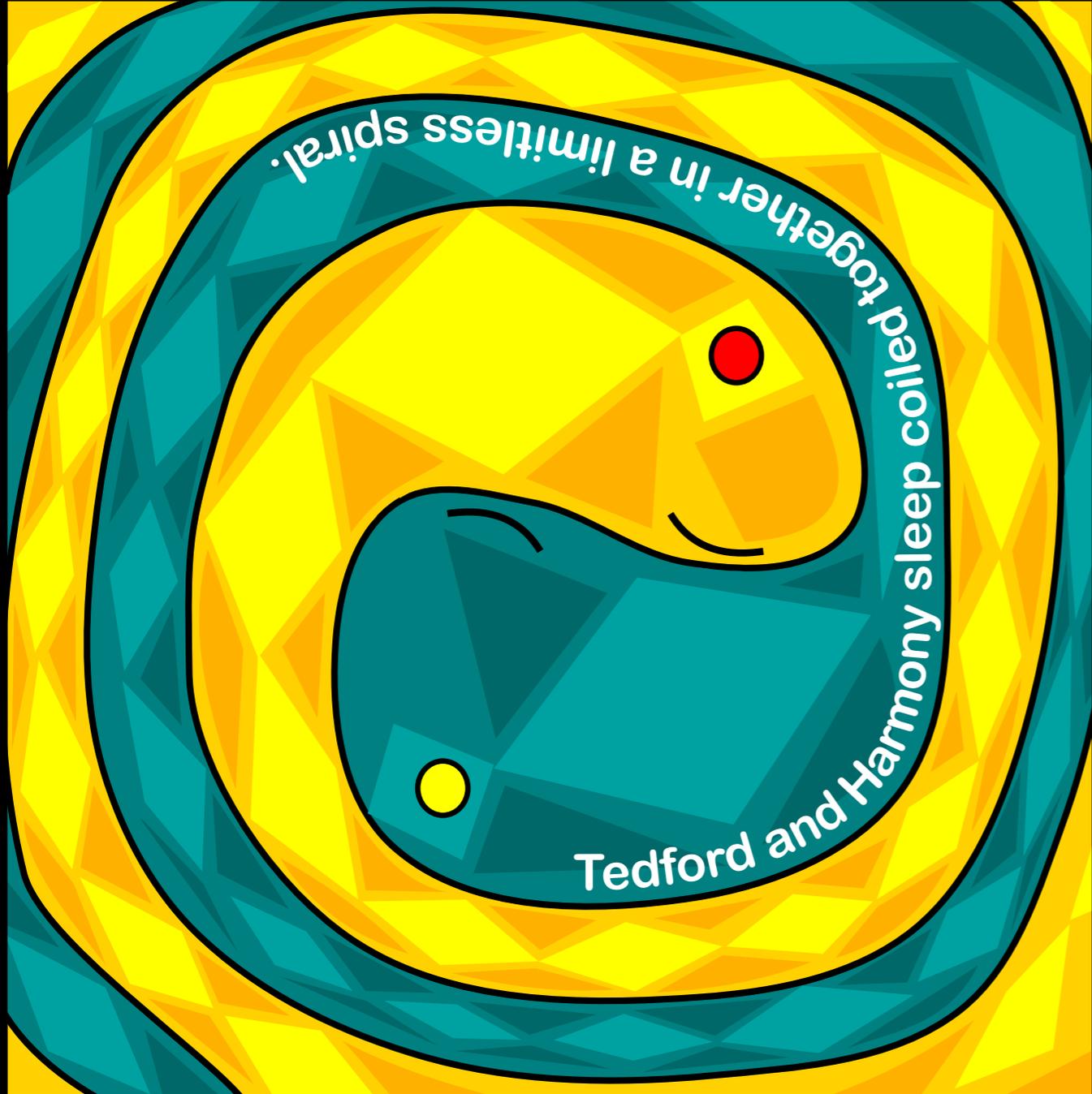
Delores.



She decorates
them with
jewelry.

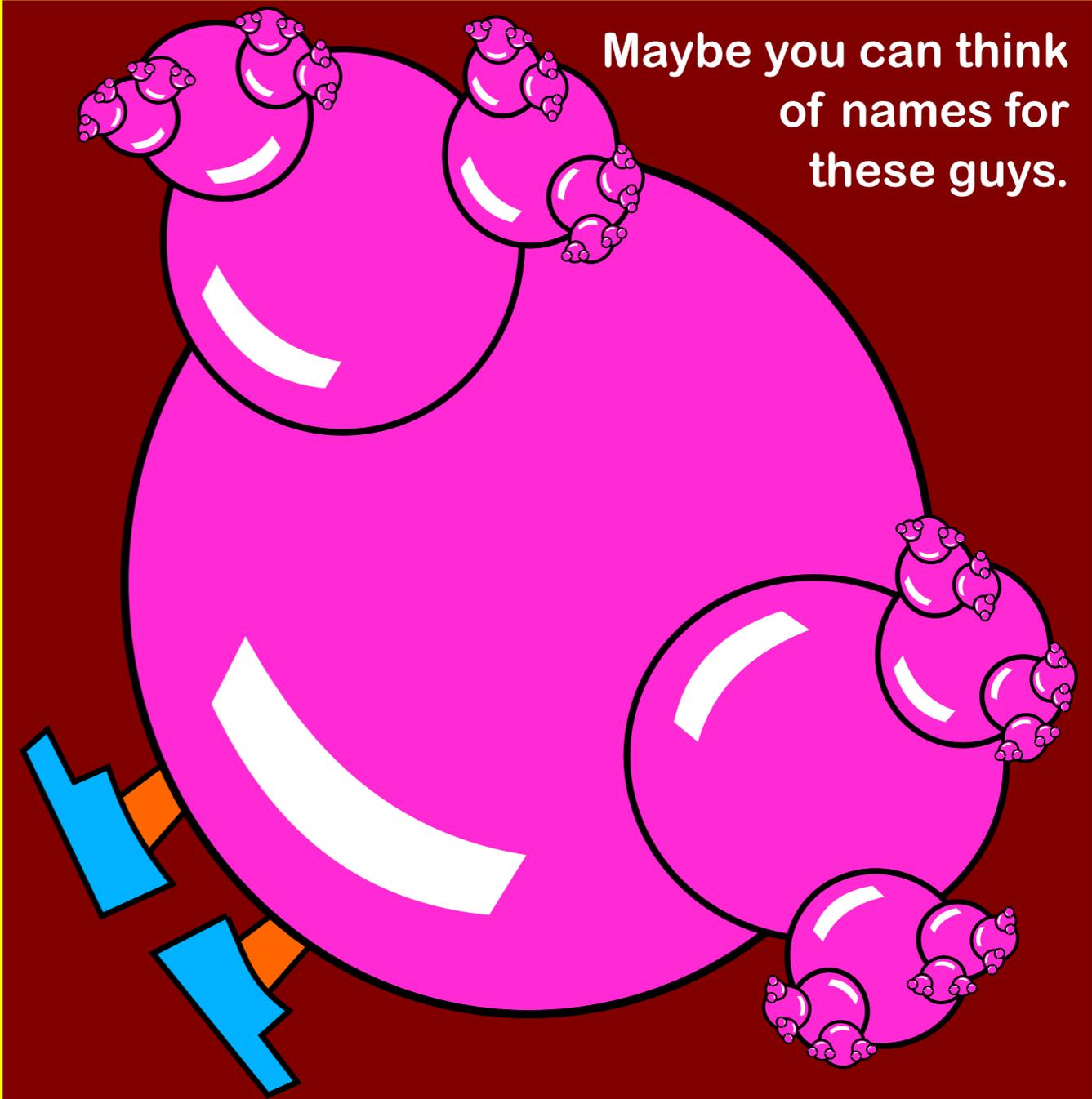


She is crazy
about rings
and bracelets
and all that
kind of stuff.

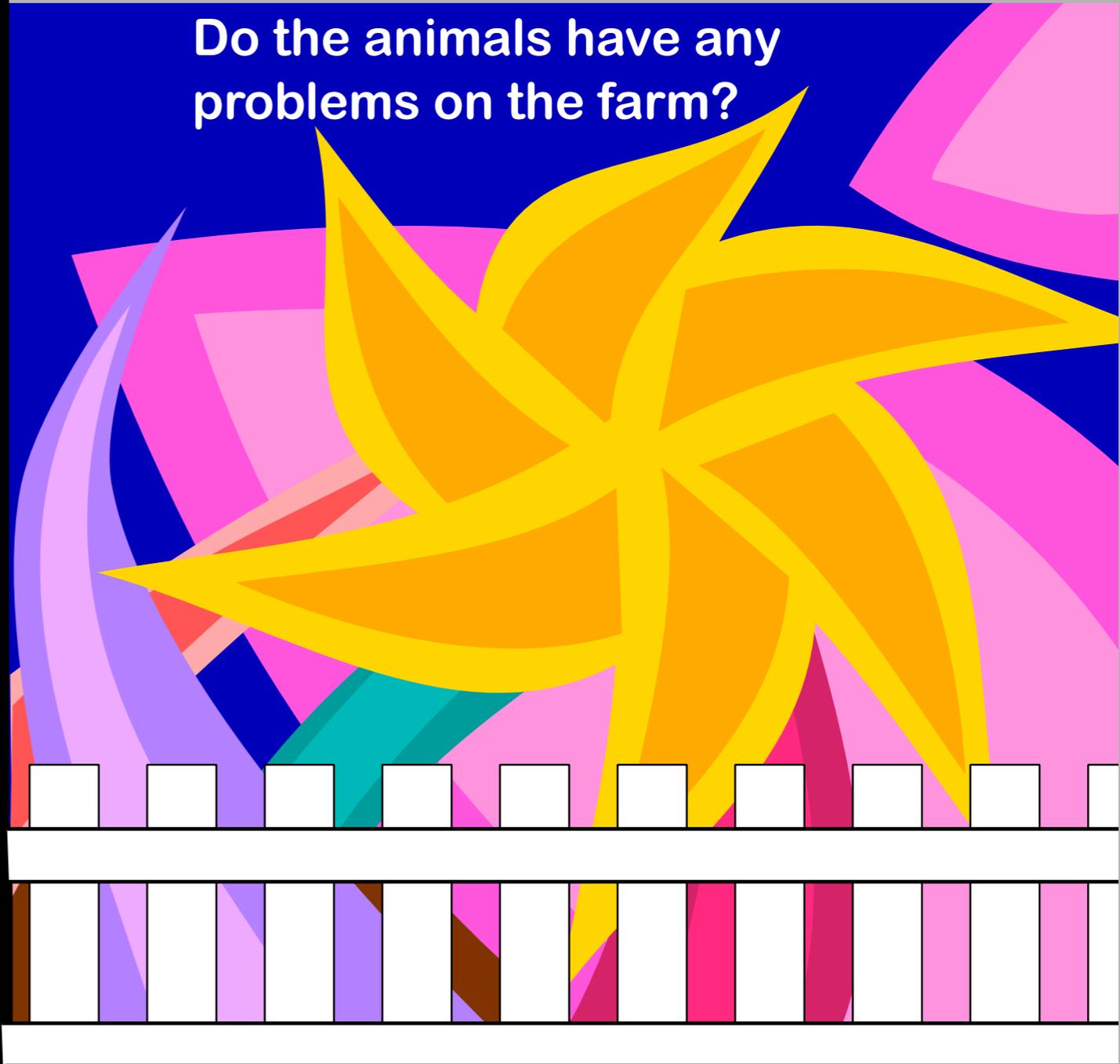
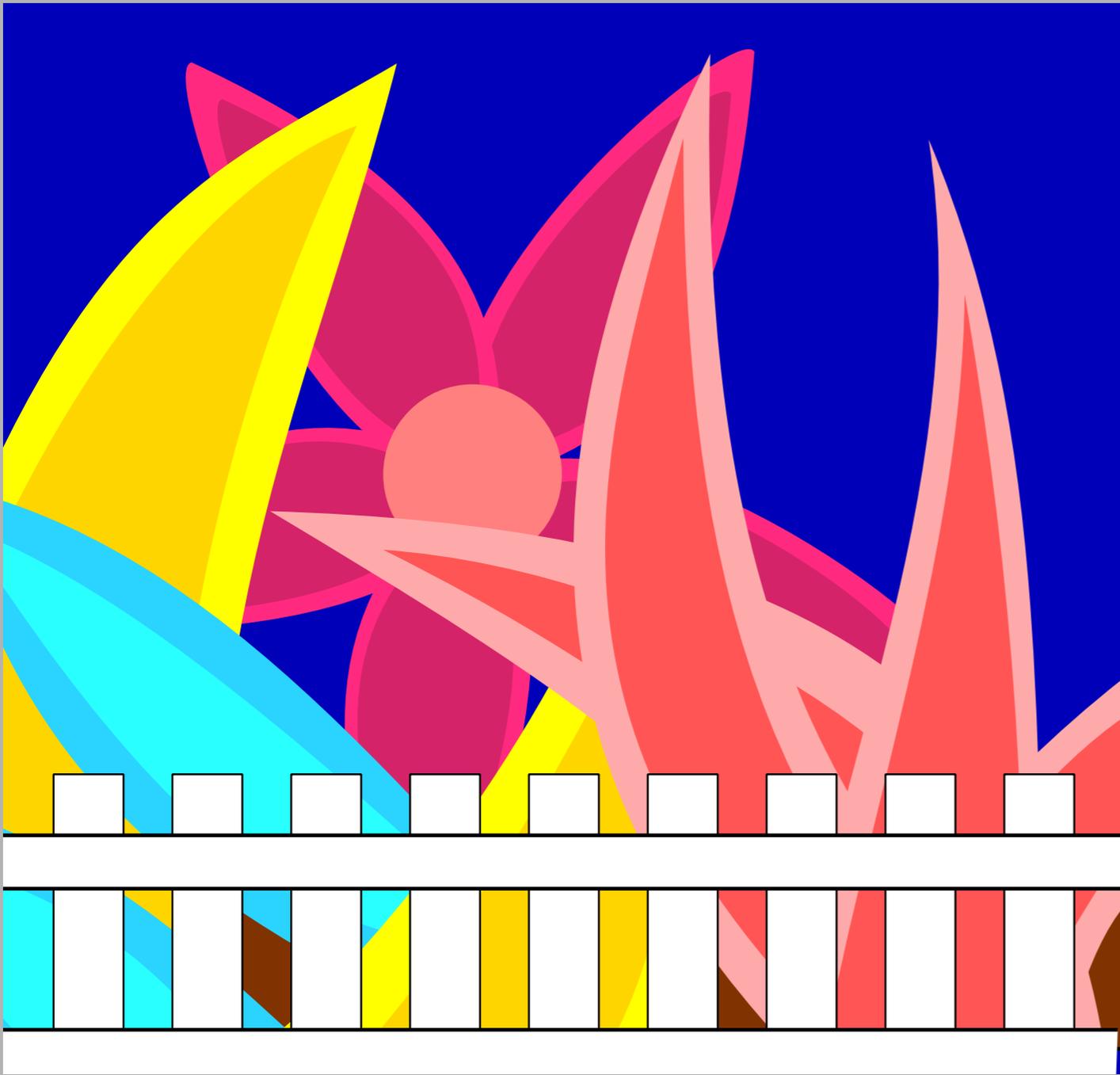




Some of the animals on the farm are so strange that I don't even know their names.

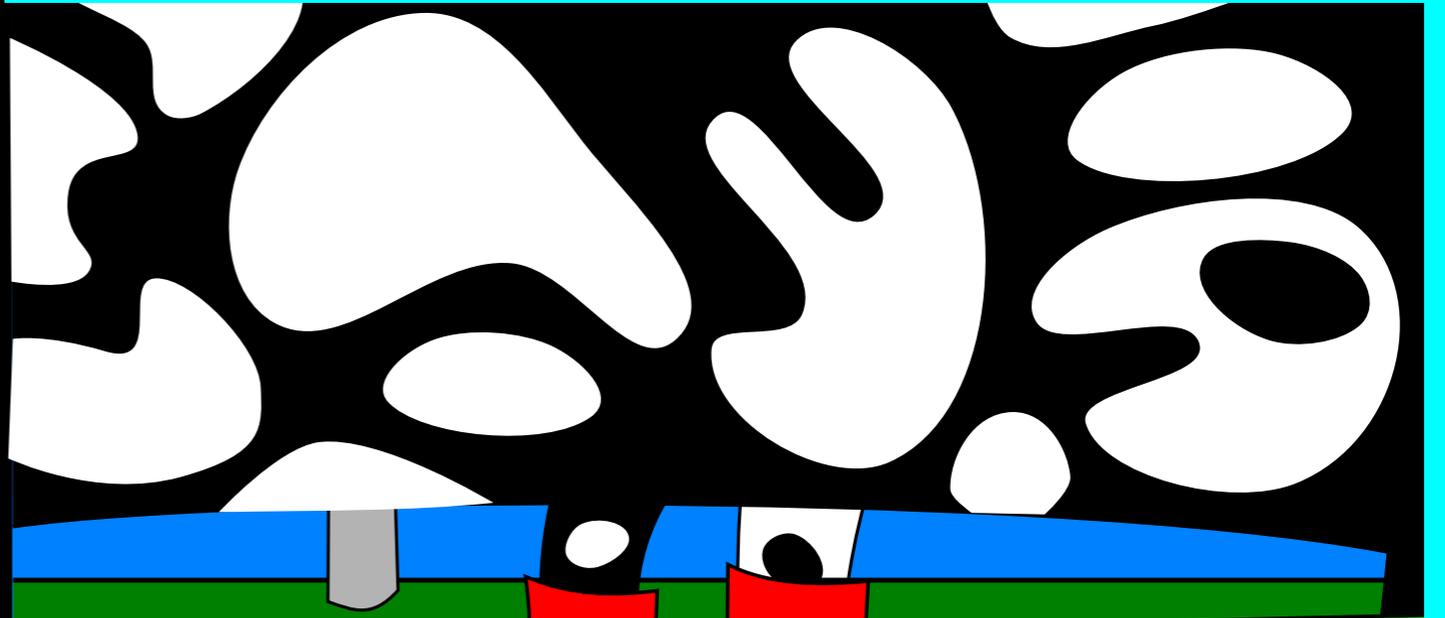
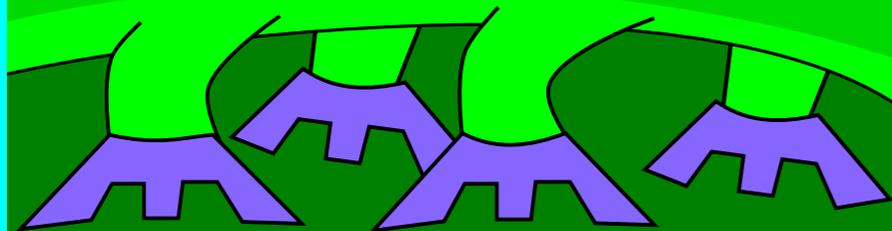


Maybe you can think of names for these guys.

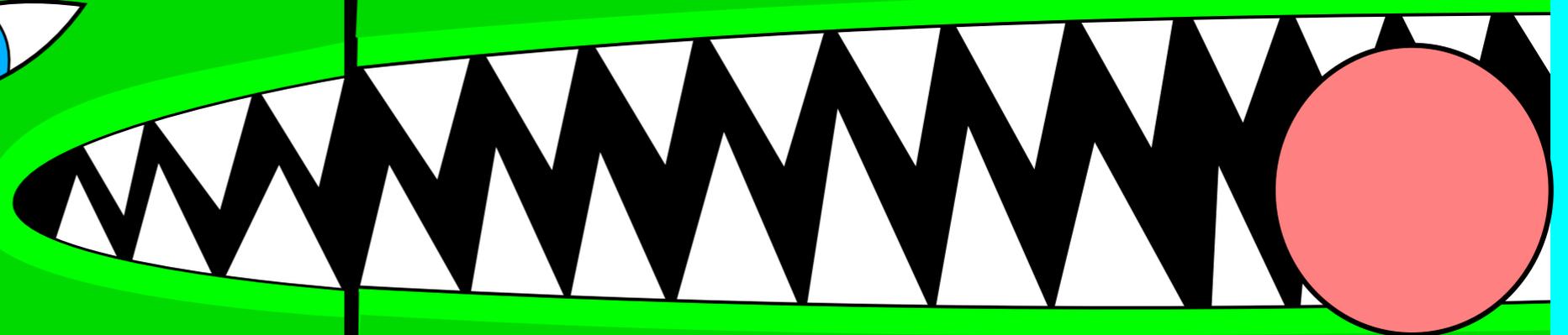




Oh yes, lots of problems!
Gracie has a problem
with new shoes.



Her friends know that she loves shoes



so they bring her new ones as presents.



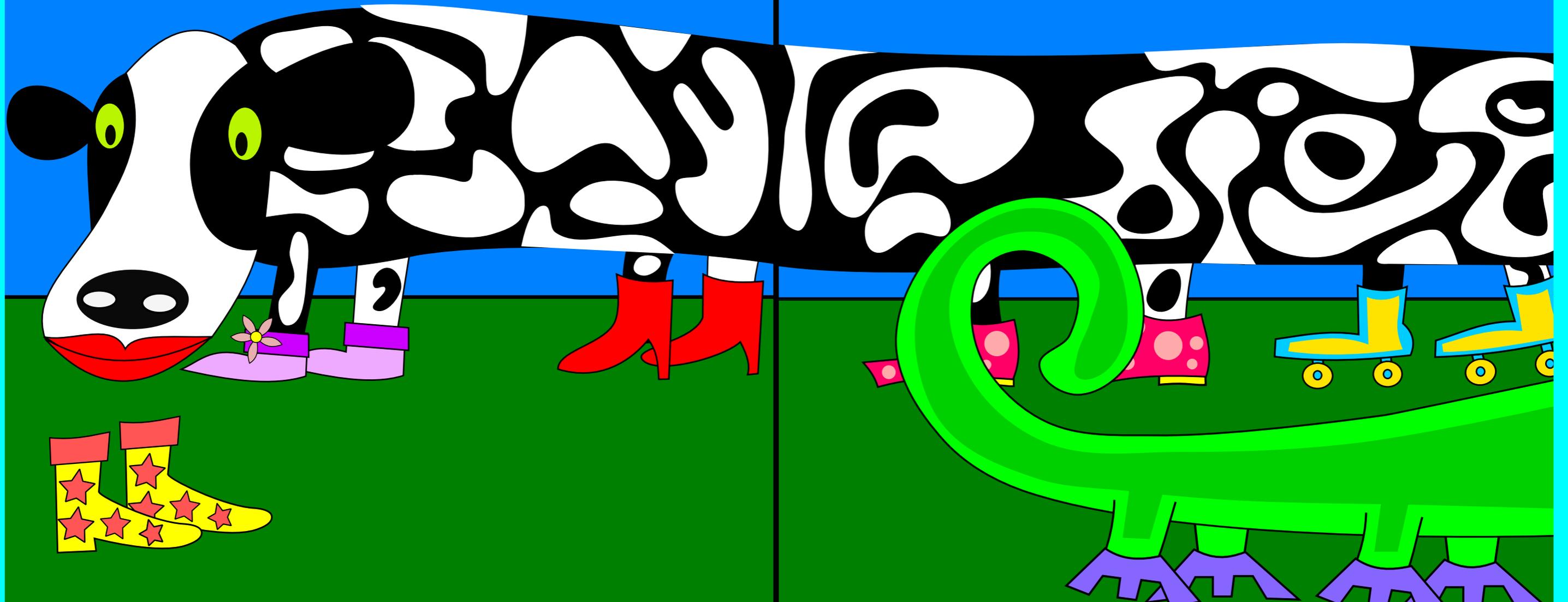
She wants to wear the NEW shoes ...



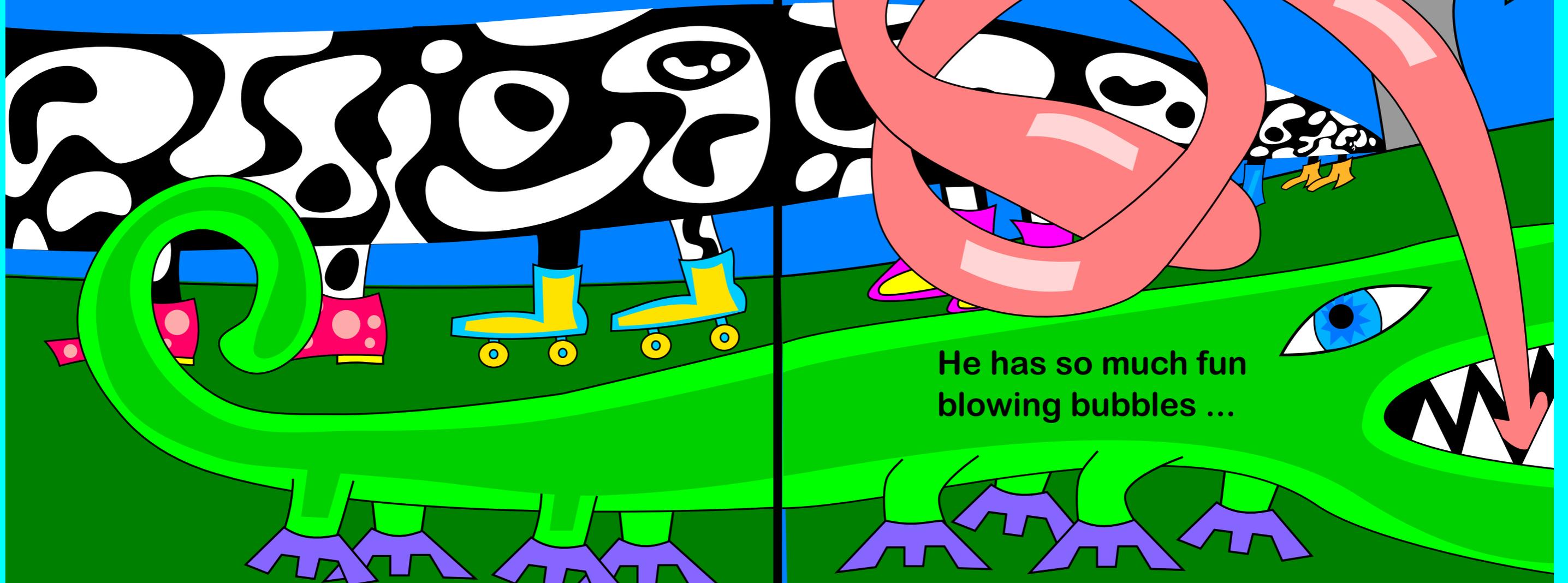
But she doesn't want to stop wearing any of her OLD shoes.

She already has a shoe on EVERY foot...

So what is she going to do?

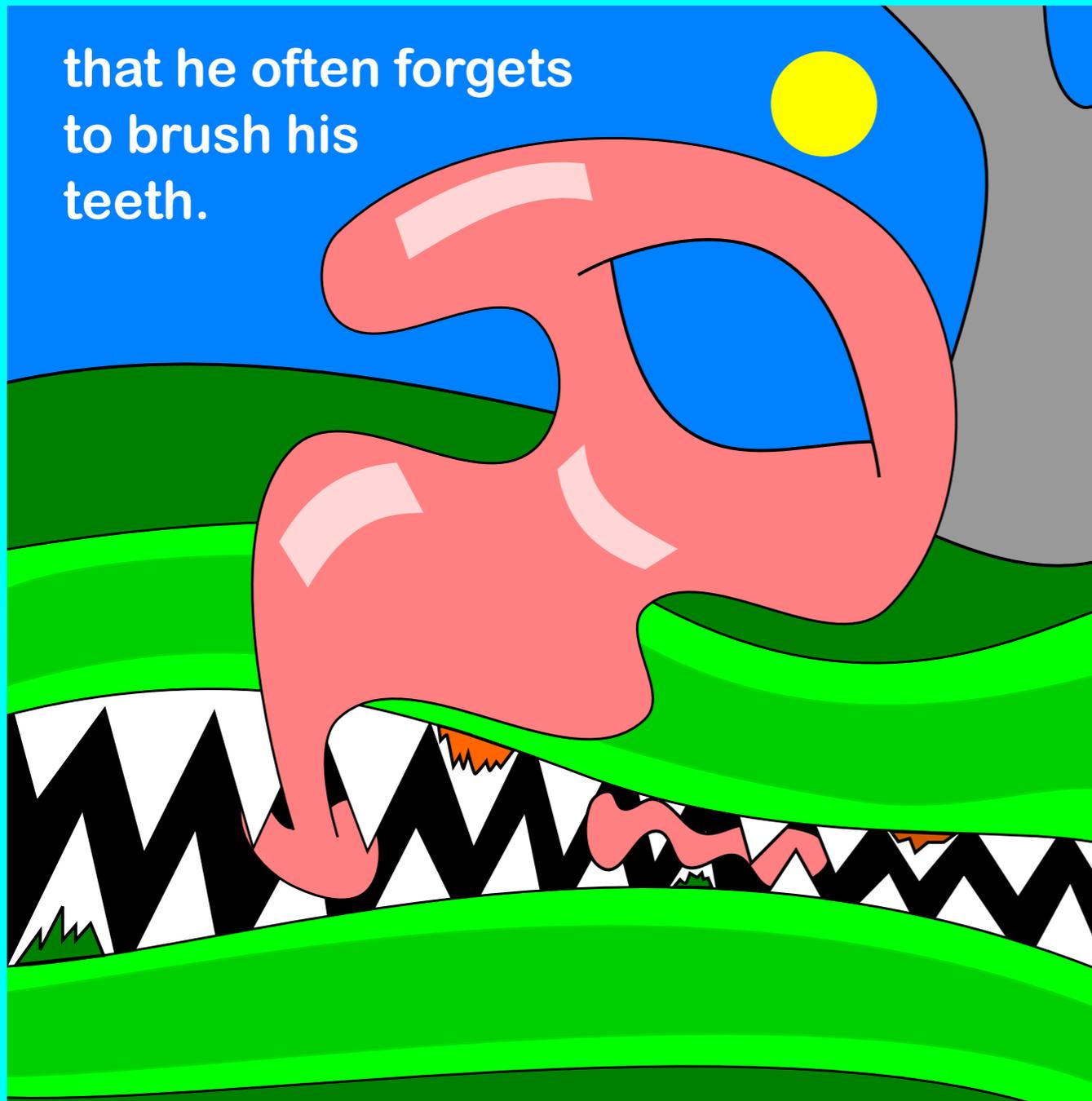


Meanwhile, Hammerwood
has problems of his own.



He has so much fun
blowing bubbles ...

that he often forgets
to brush his
teeth.



To be honest, bad things
sometimes happen to
Hammerwood's teeth.
It isn't pretty up close.



Sometimes it gets so bad that ...

some of his teeth fall out!

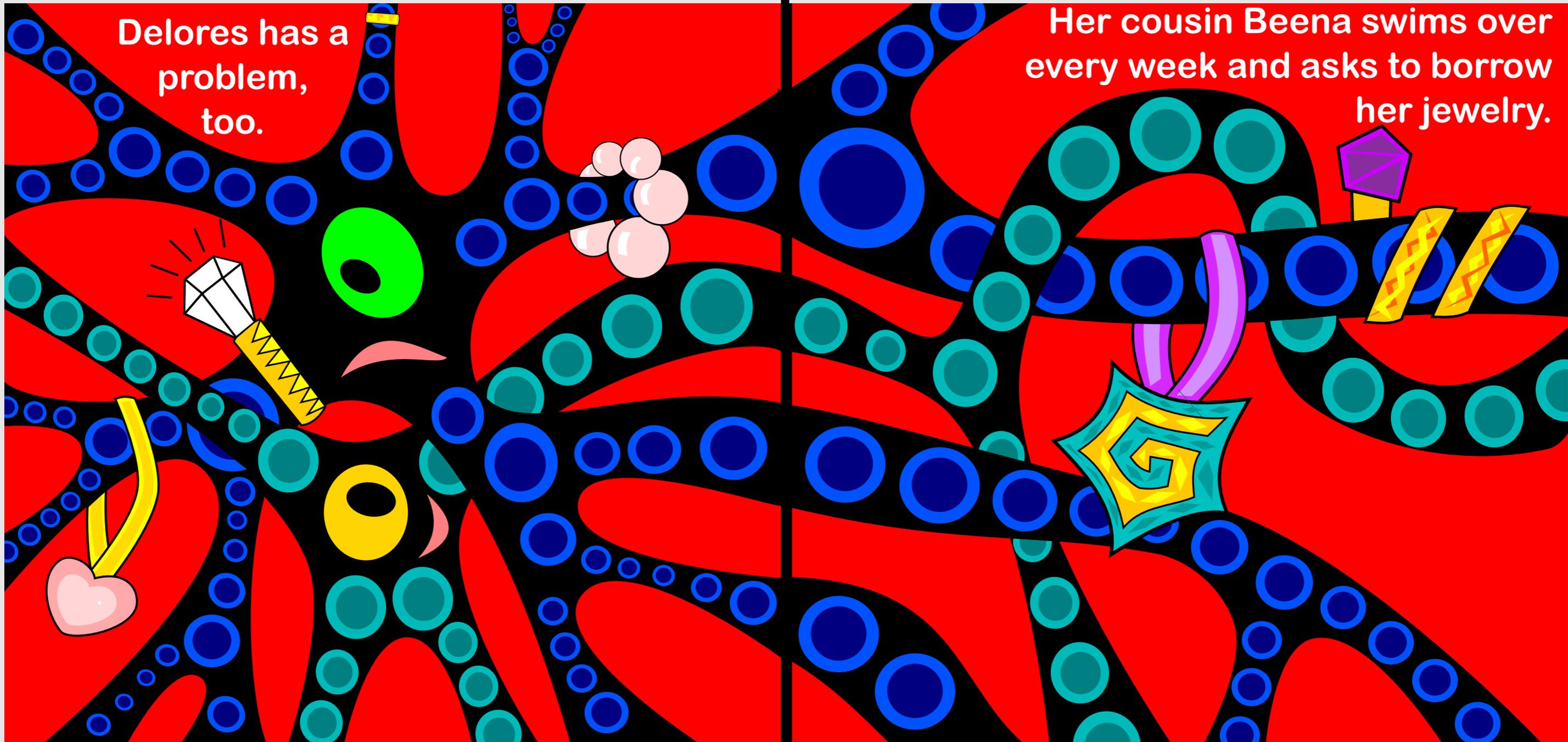
He needs those teeth for
chewing but he can't grow
new ones.



So what does he do?

Delores has a
problem,
too.

Her cousin Beena swims over
every week and asks to borrow
her jewelry.





Beena wants to decorate all her tentacles

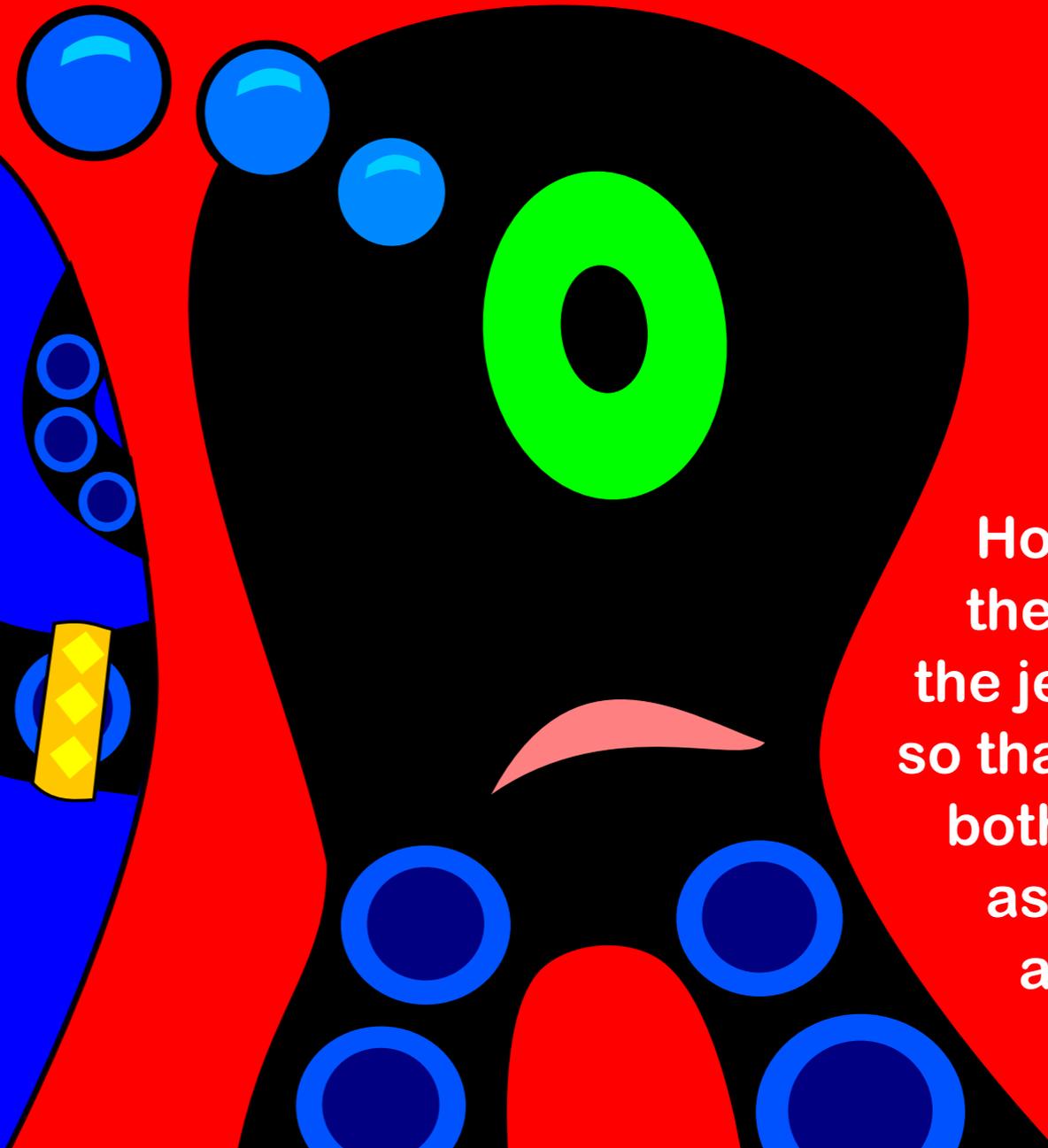


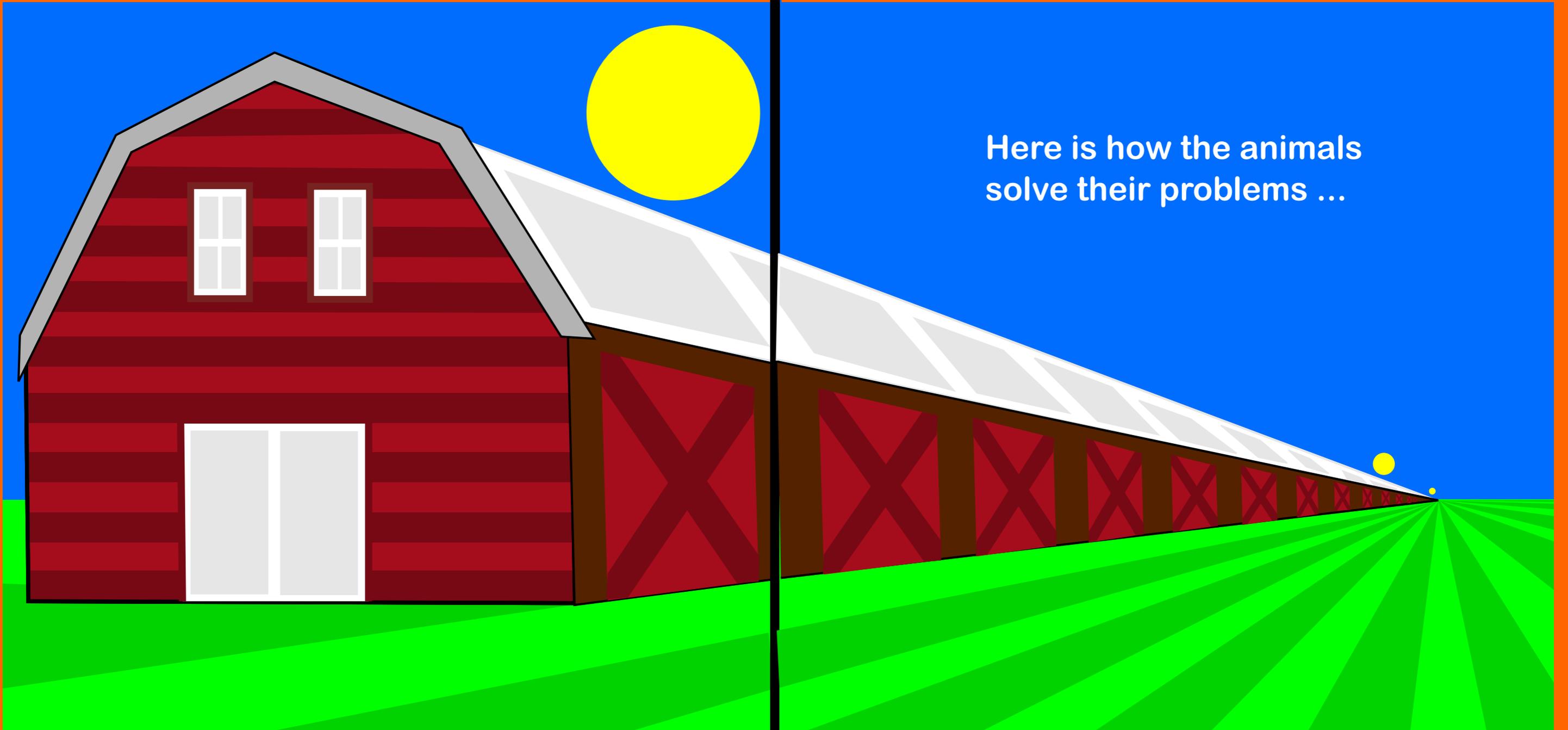
for her Saturday night dances ...

but Delores wants to decorate
all HER tentacles
for her Saturday
night swims
with Nelson.



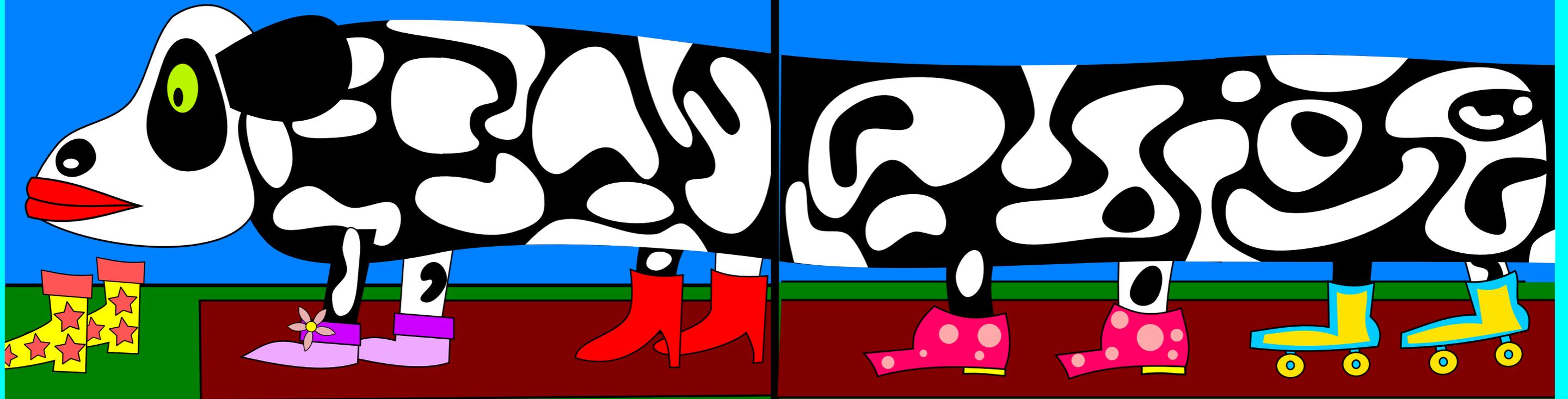
How can
they split
the jewelry
so that they
both have
as much
as they
want?





Here is how the animals
solve their problems ...

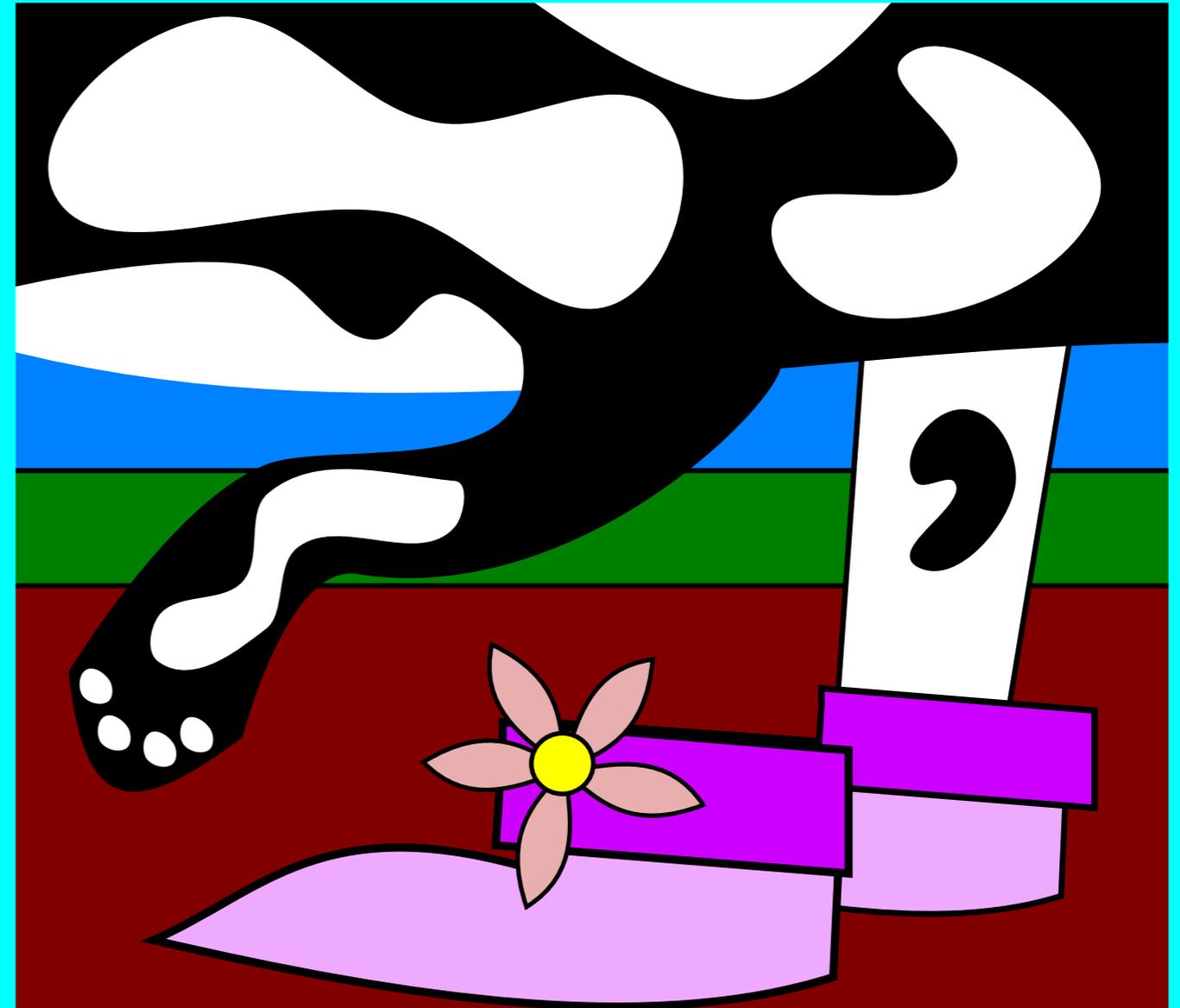
Gracie moves over to a special
infinite sticky strip in the grass...



and stands behind the
new pair of shoes.



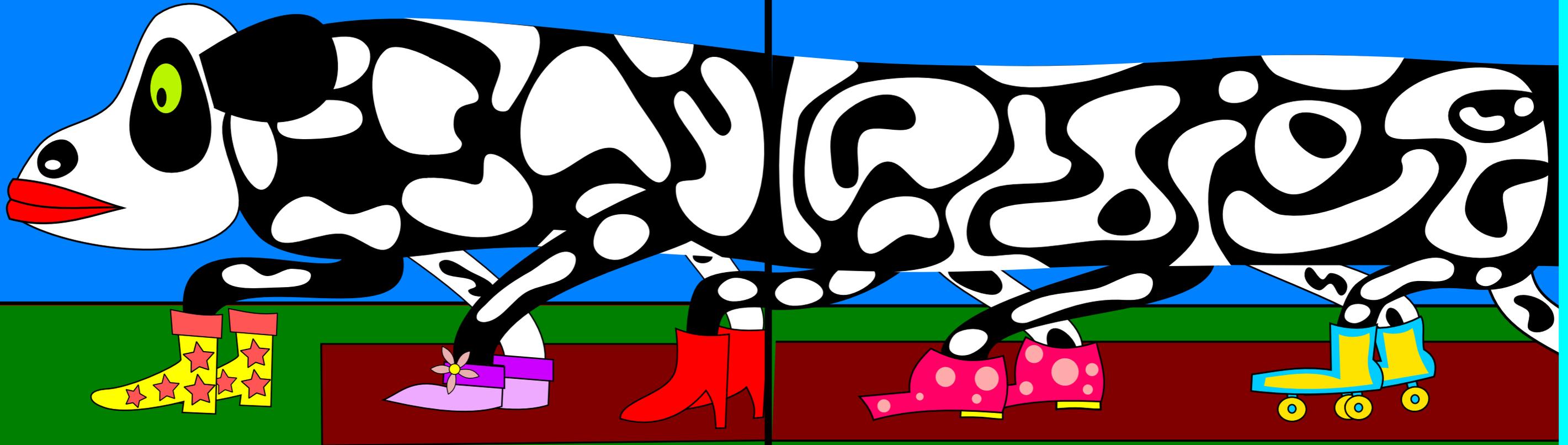
She gives each left leg a little shake ...



then steps out of each left shoe ...

and into the one in front of it.

There is no shoe left over at the
back end because her legs go
on forever.



Gracie doesn't have a back end!

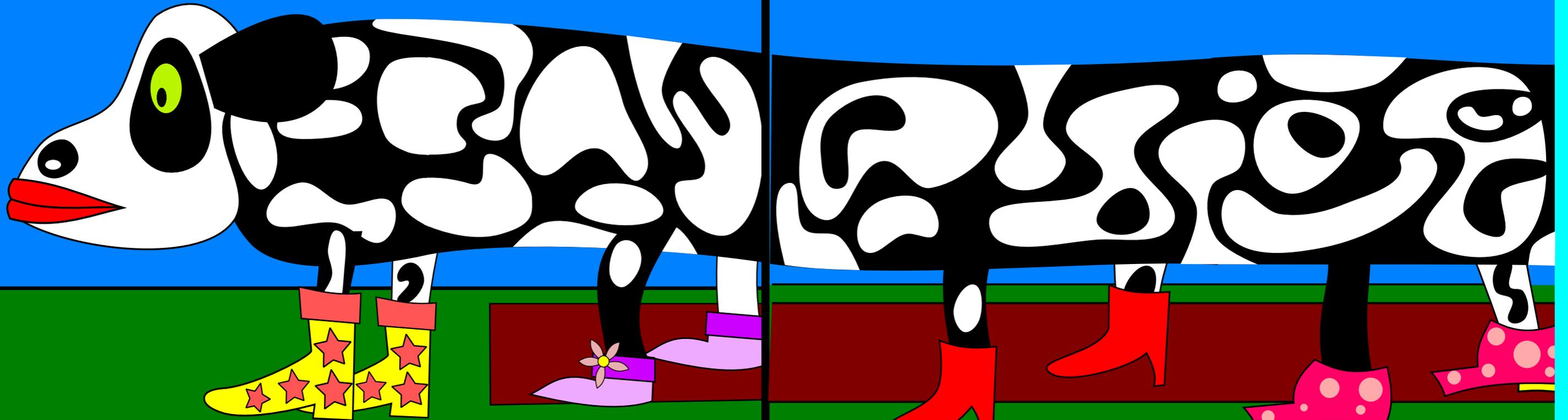
Now she gives each
right leg a little shake ...



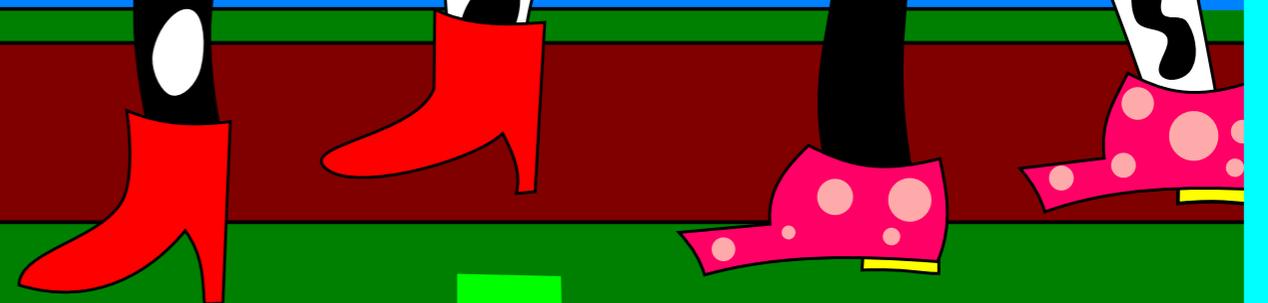
and steps out of
each right shoe...

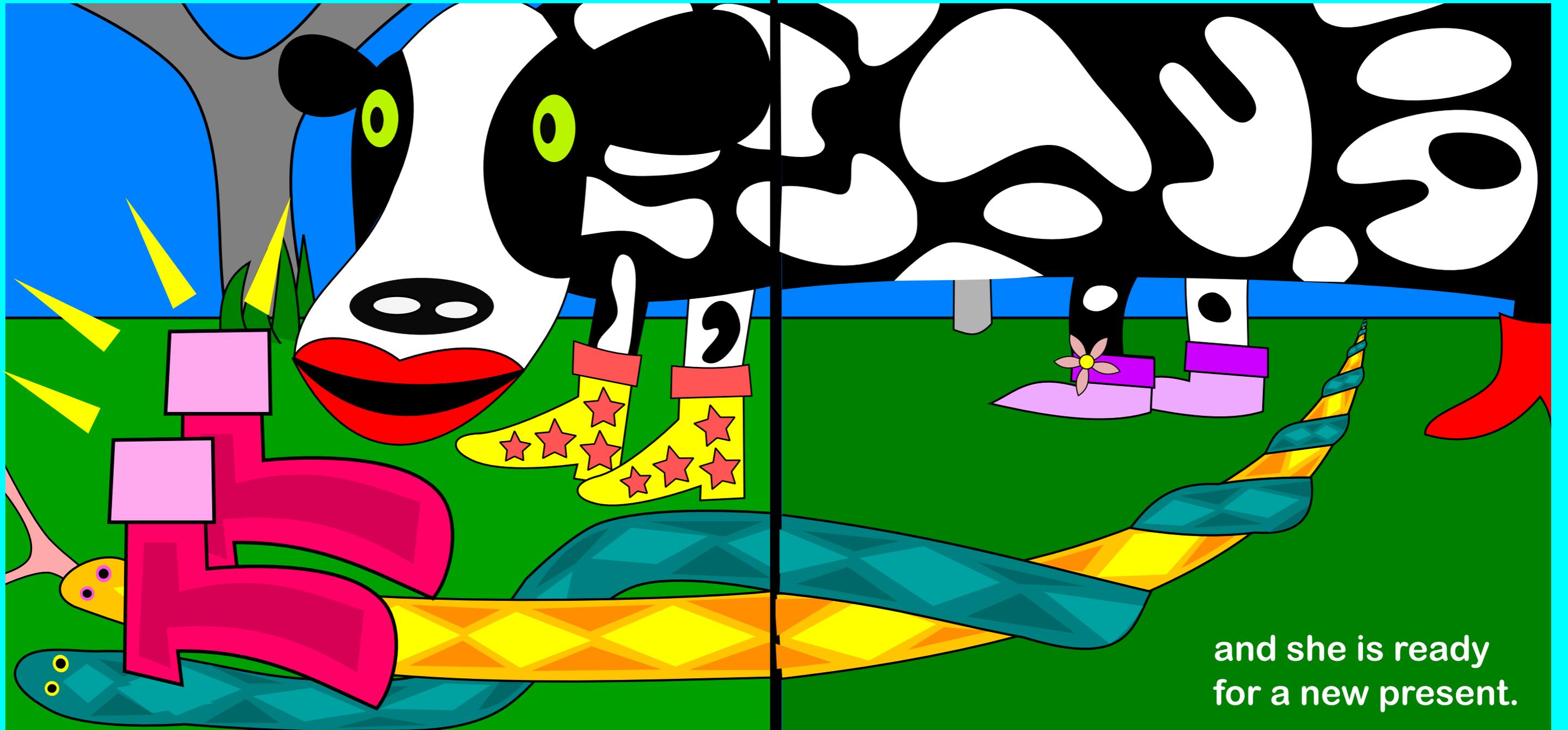


...and into the shoe in front of it.
Now she is wearing her new
shoes AND all her old shoes.



Then she moves off
the sticky strip ...



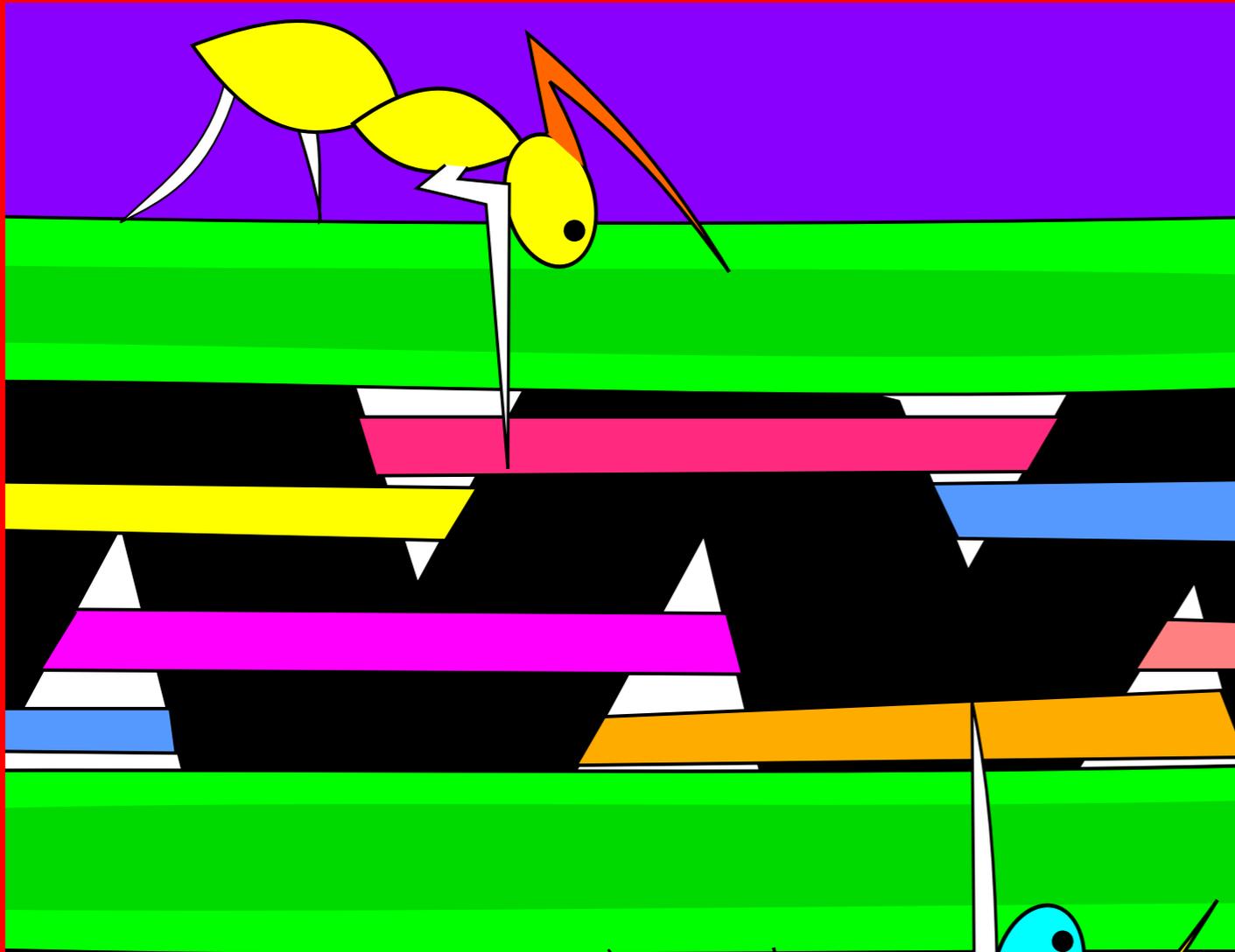


and she is ready
for a new present.

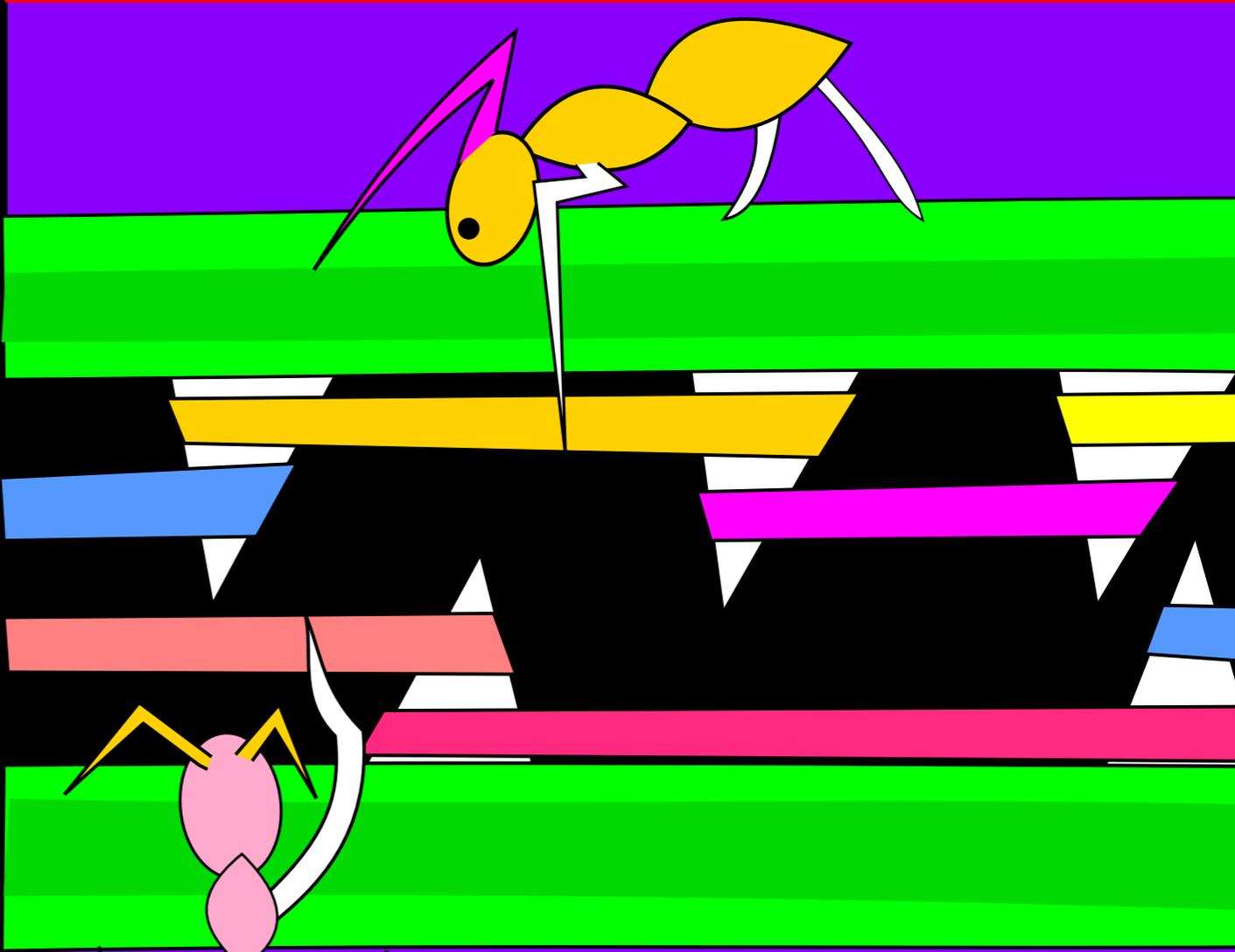
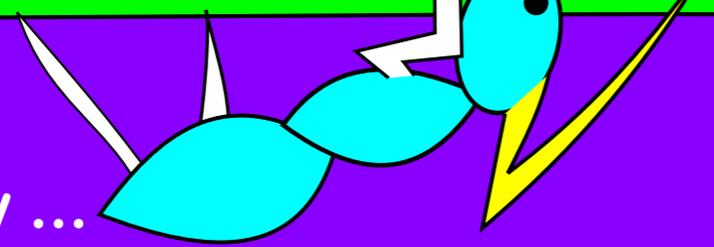


When Hammerwood's teeth thin out to the point where he only has about one out of three, he snaps into action.

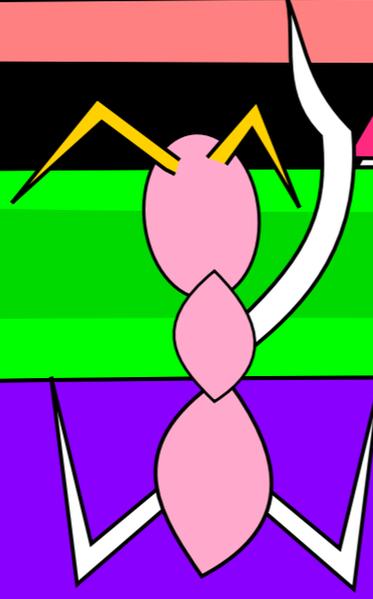
He cleans his remaining teeth with his infinite tooth brush.

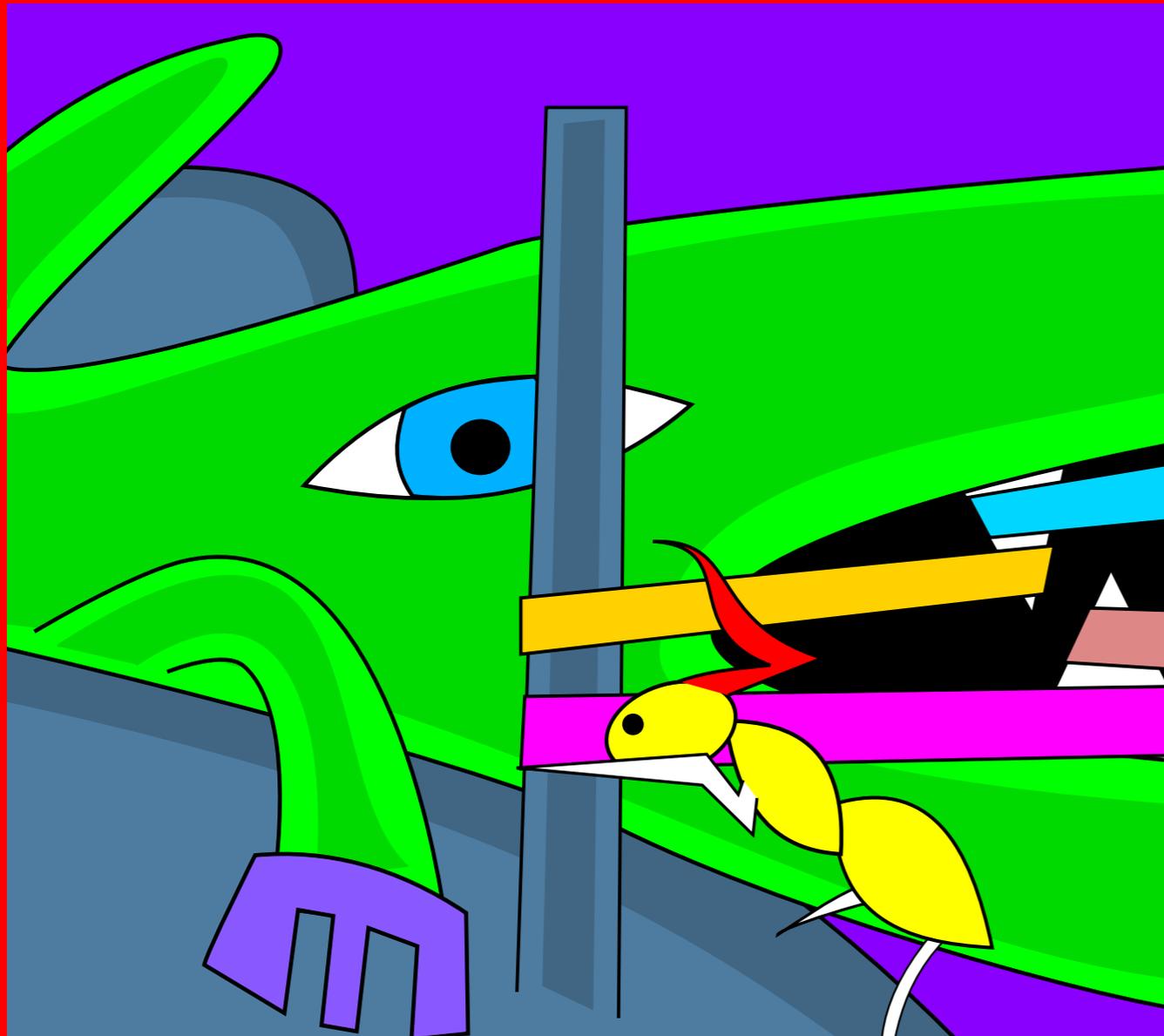


Then his friends from the infinite ant colony ...

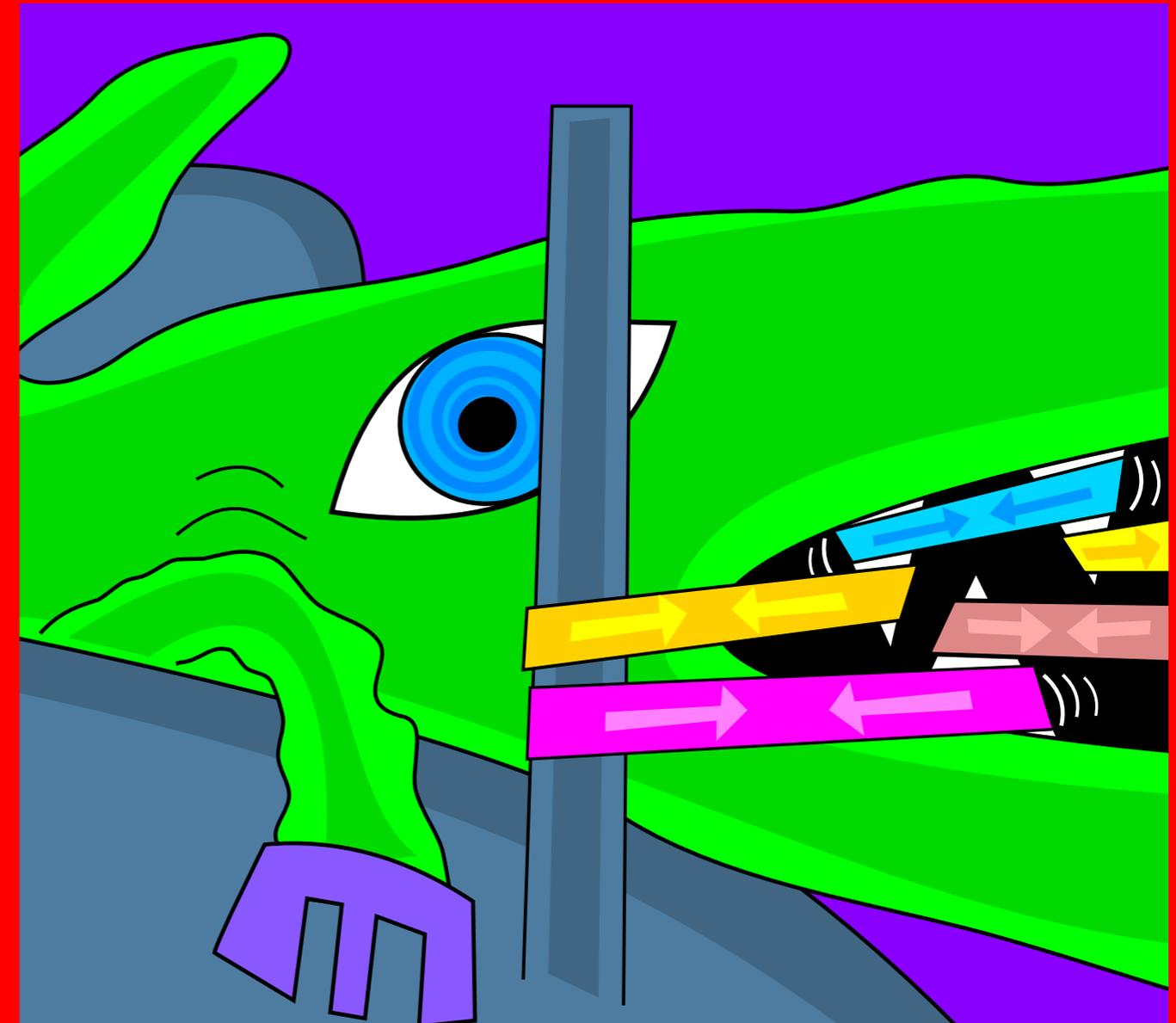


put powerful rubber bands around his teeth.

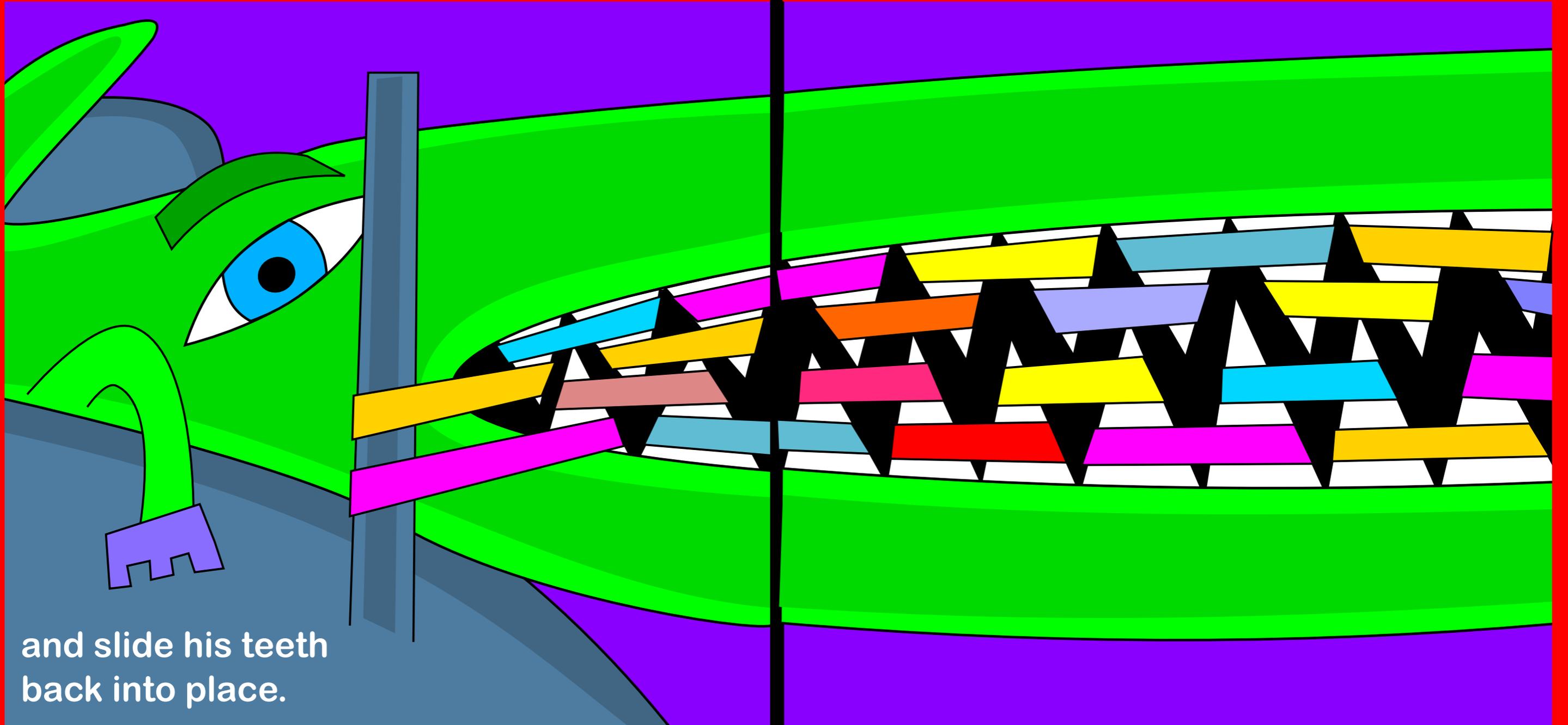




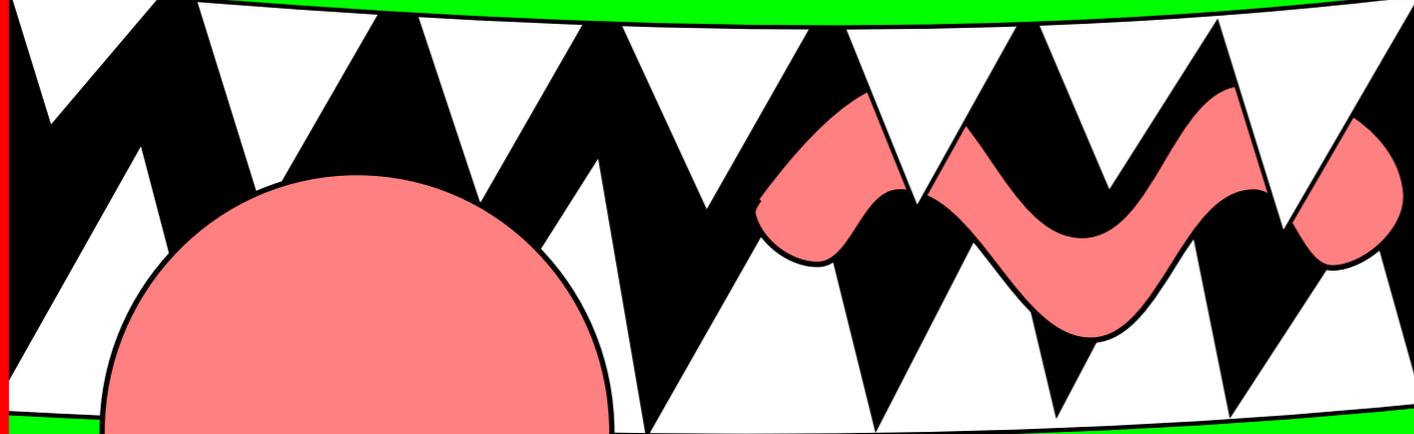
For technical reasons, the first two bands are anchored to a stick.



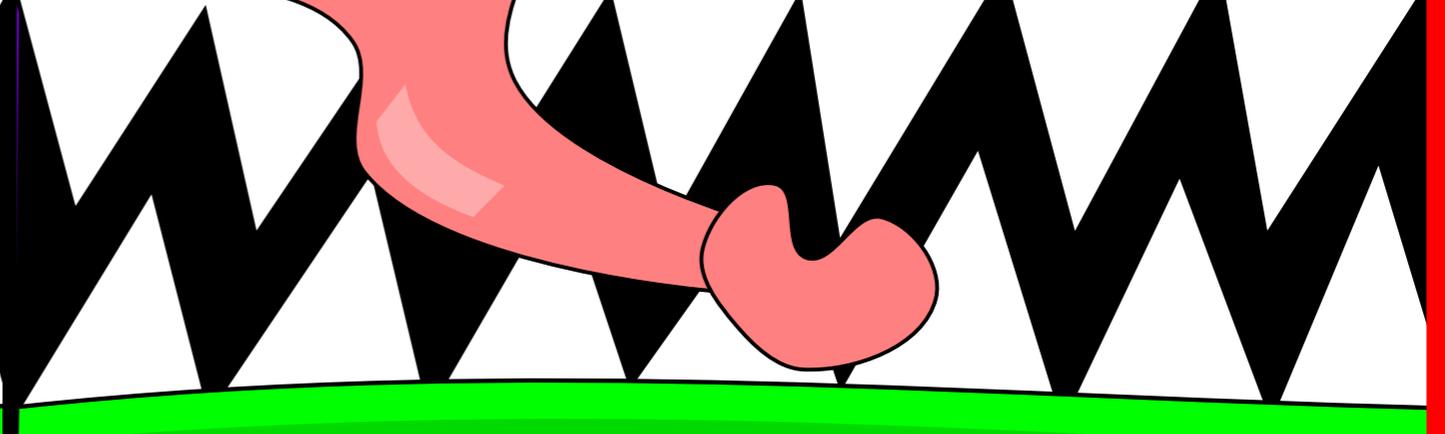
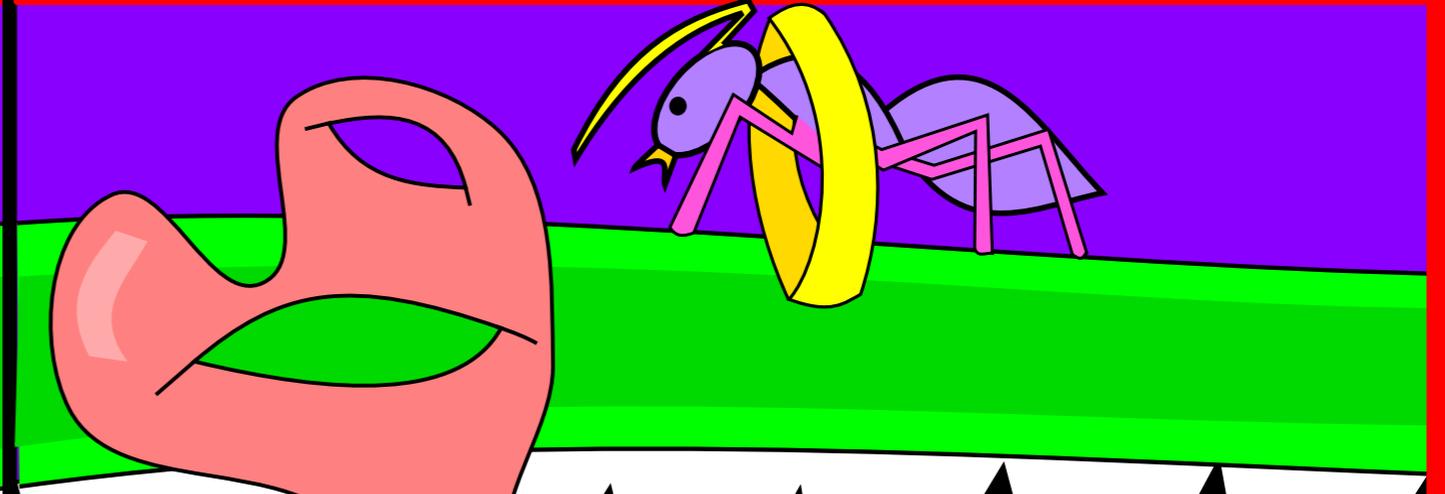
The rubber bands all contract ...



and slide his teeth
back into place.



The ants carry off the rubber bands ...



And Hammerwood's teeth are all set to start chewing again.

On Saturday
afternoons,
Delores and
Beena line
up their
tentacles...



like two
infinite
hands
pressing
together.



Delores'
jewelry
falls into a
pattern and
some of her
spots glow.

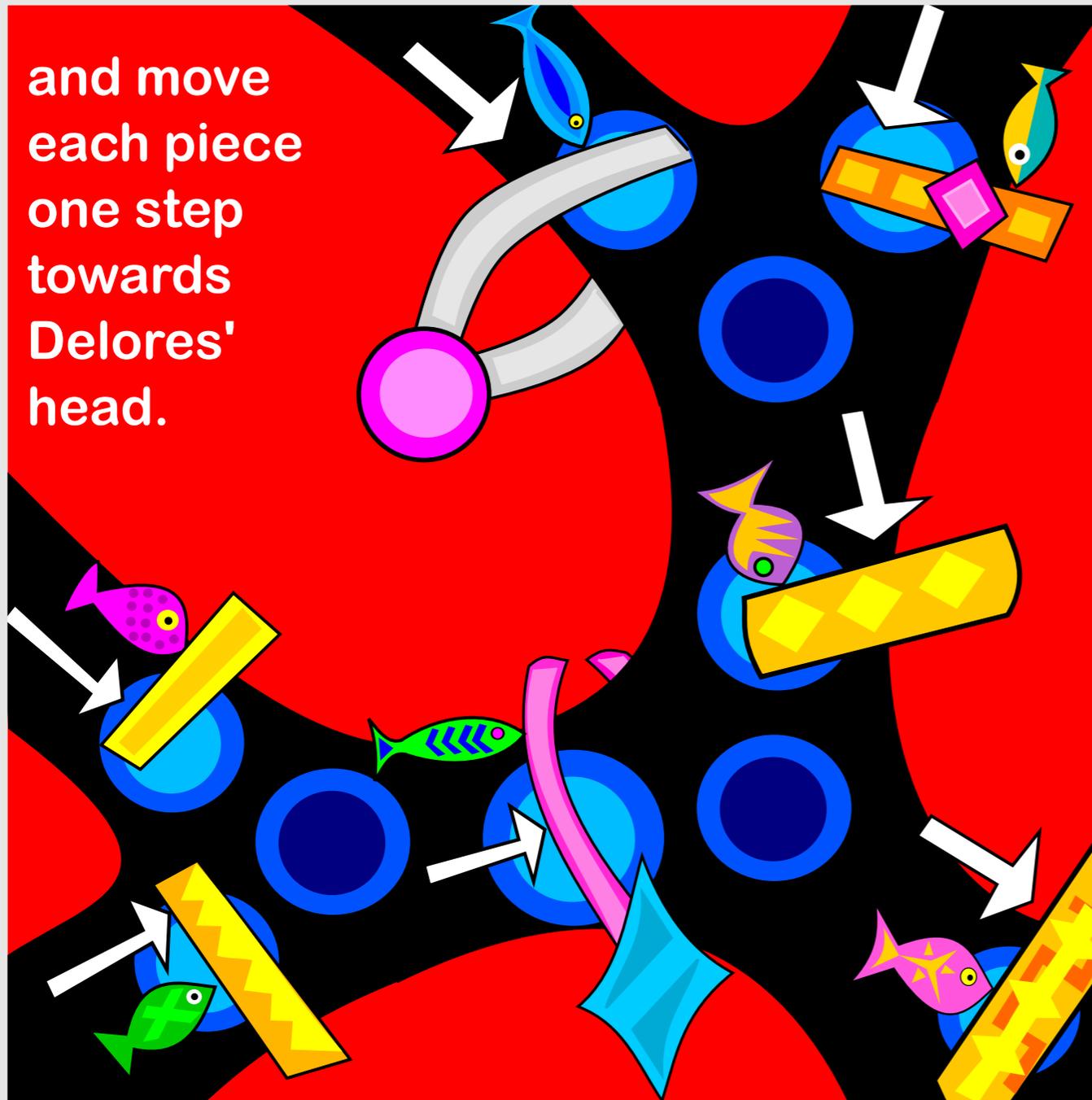


The glowing spots
attract little fish ...

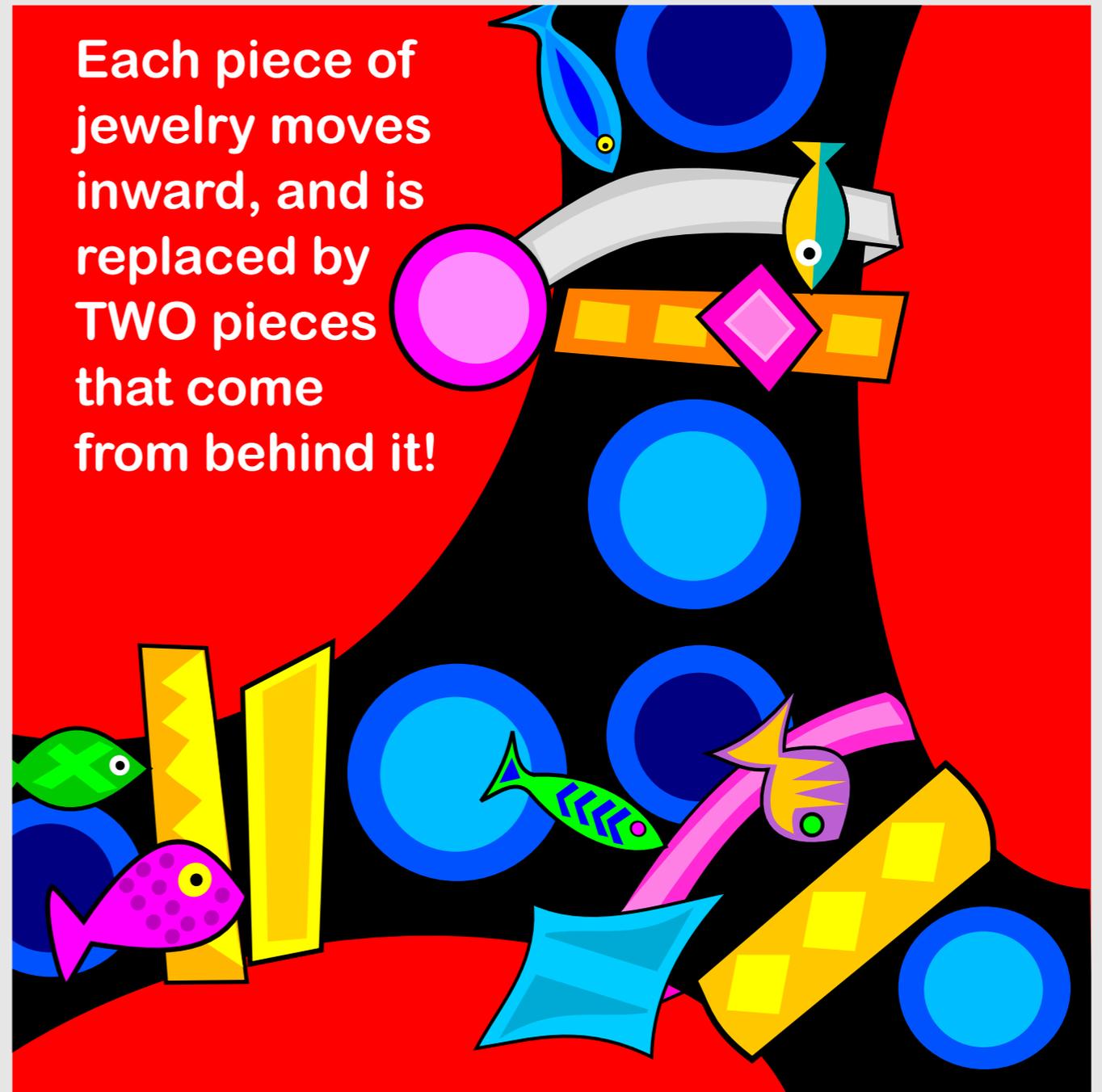


who unclasp
all the jewelry ...

and move
each piece
one step
towards
Delores'
head.



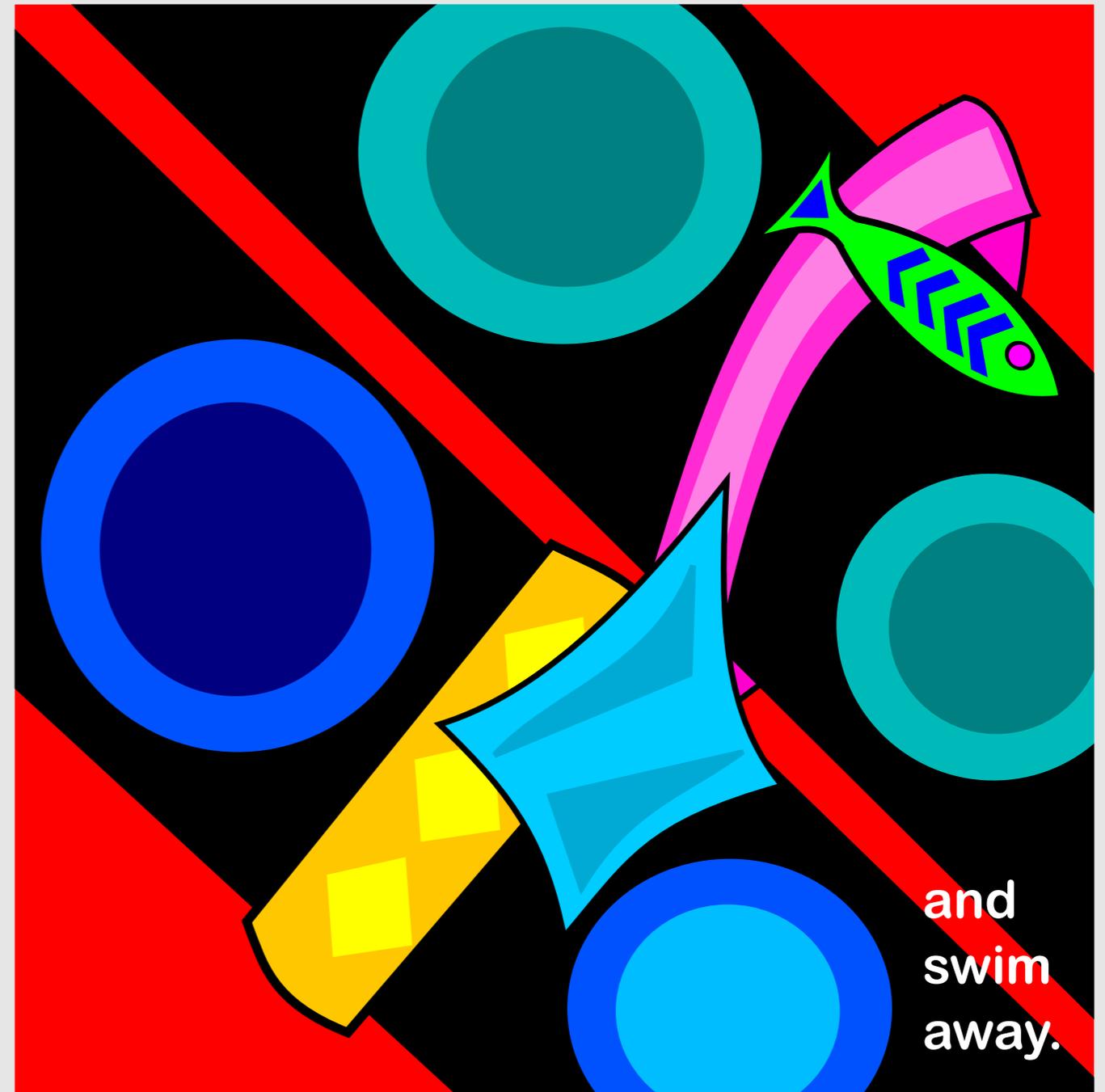
Each piece of
jewelry moves
inward, and is
replaced by
TWO pieces
that come
from behind it!



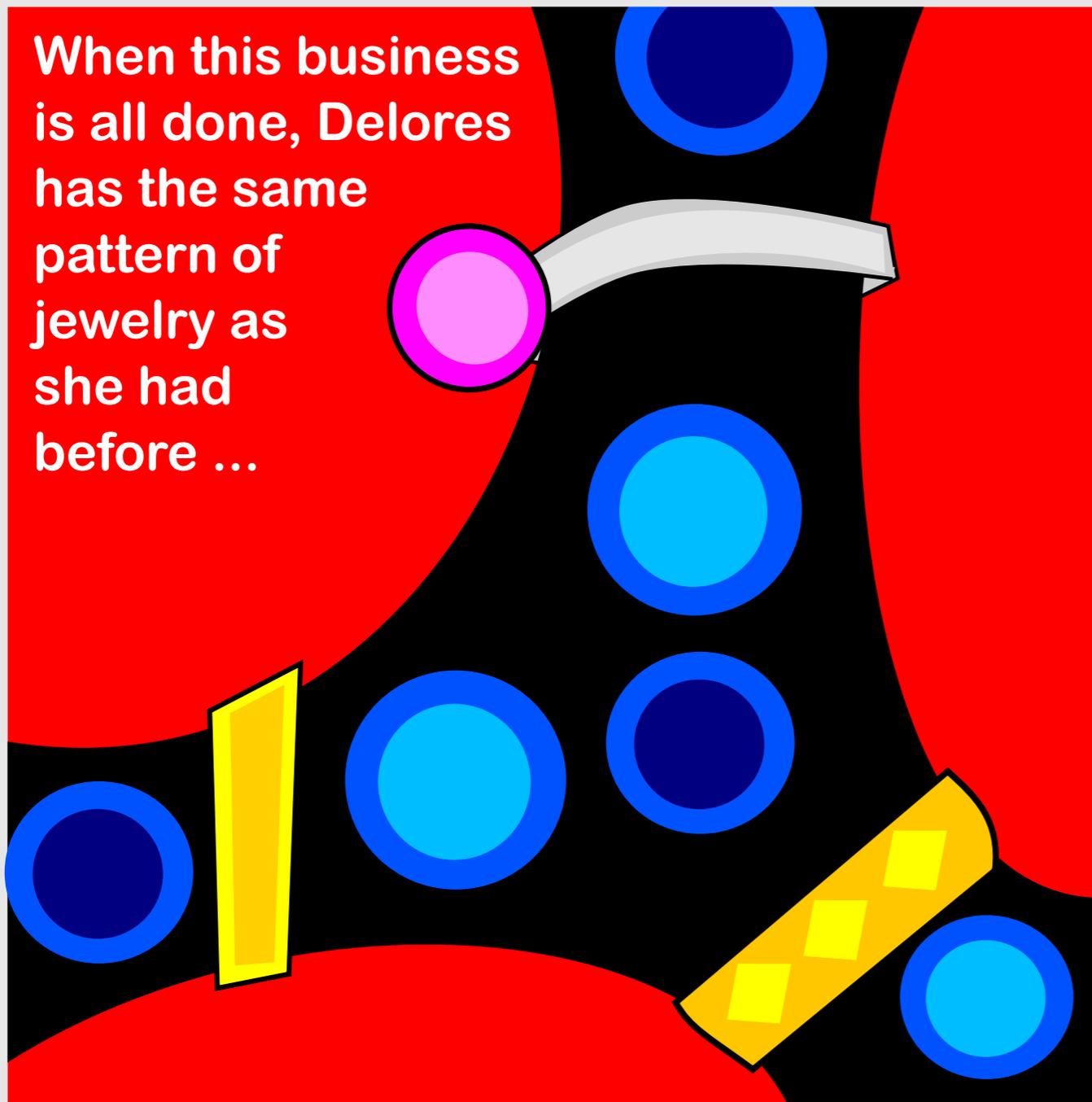
The fish then
move one
piece from
each pair
over to
Beena...



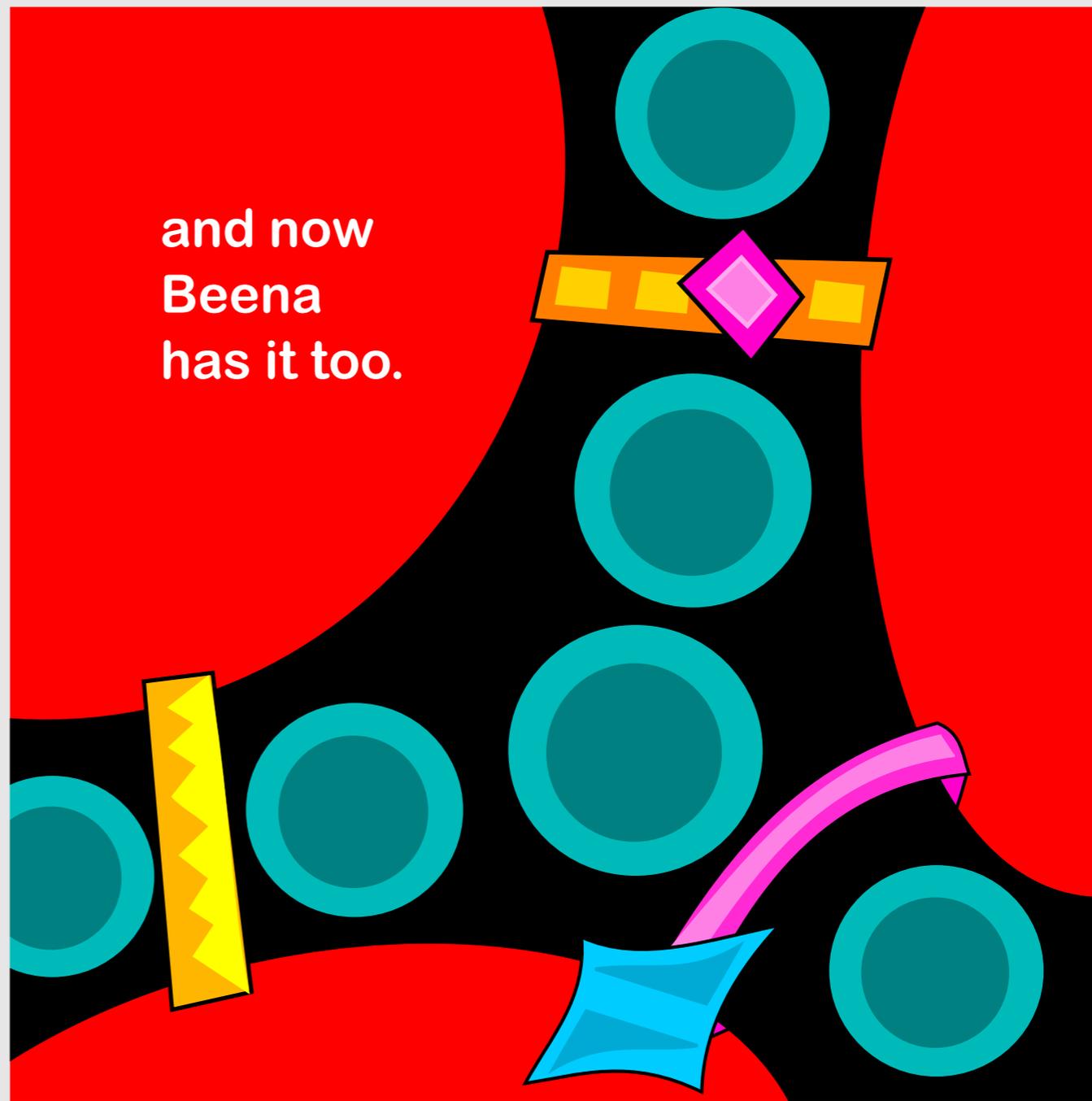
and
swim
away.



When this business is all done, Delores has the same pattern of jewelry as she had before ...

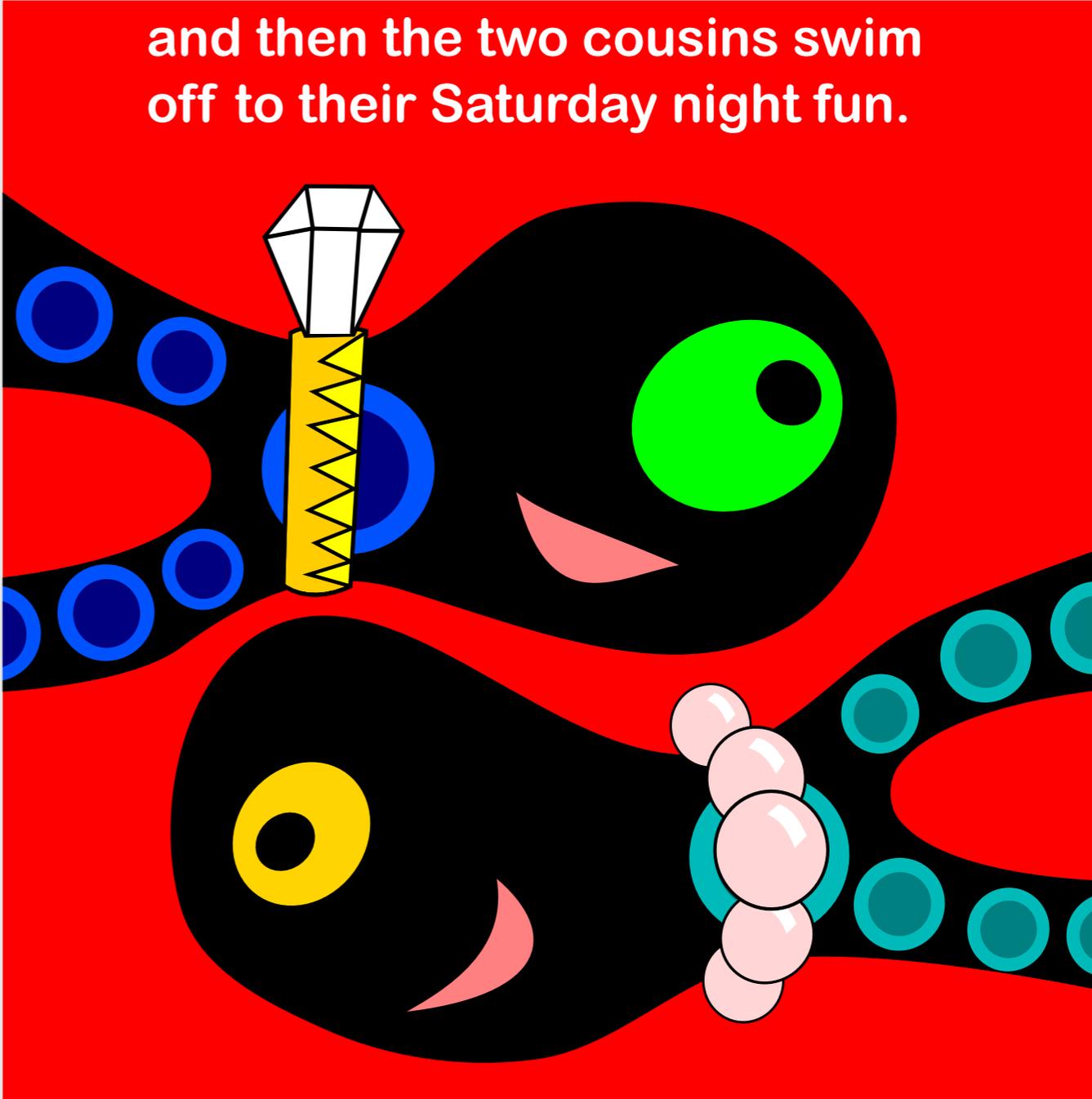


and now Beena has it too.





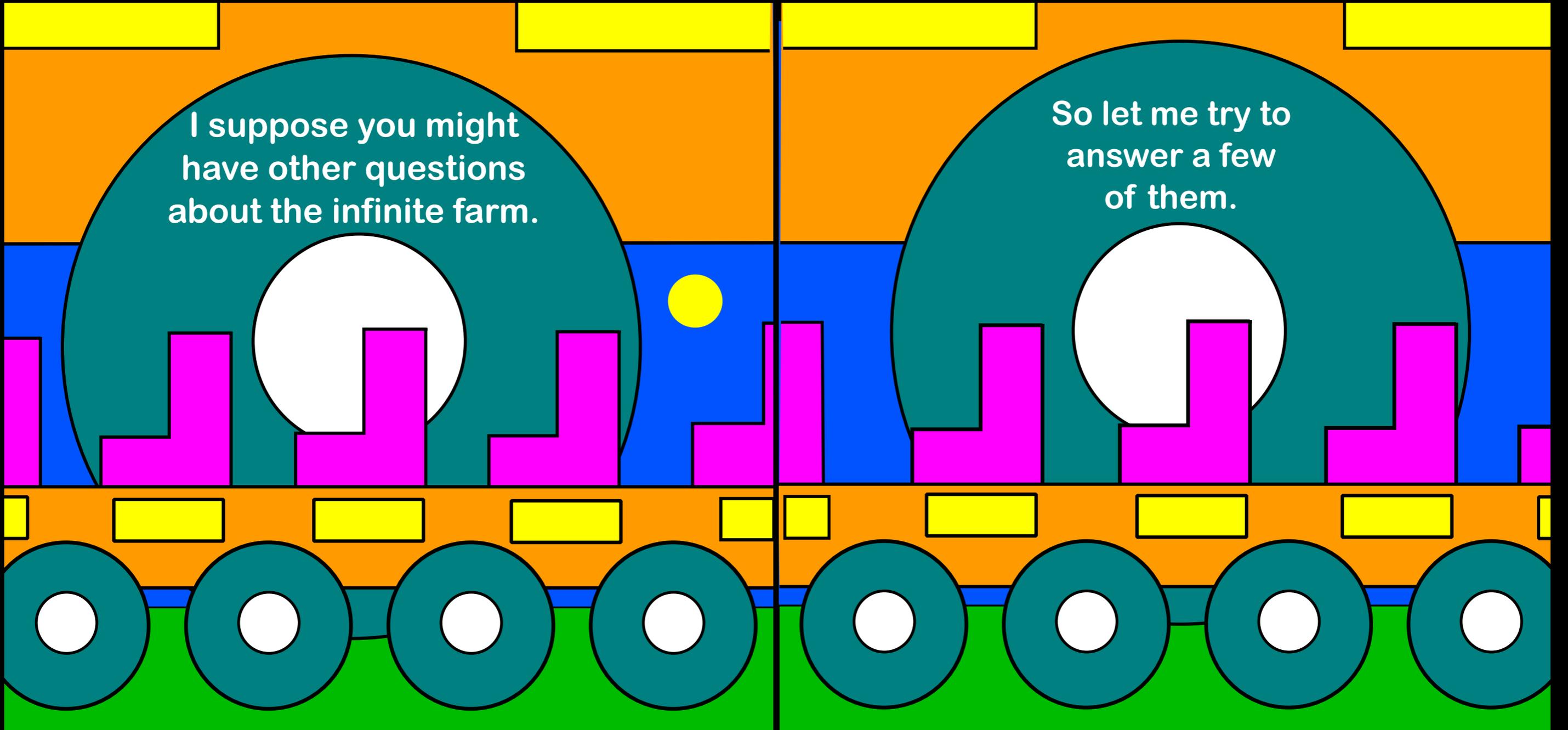
Beena
thanks
Delores ...



and then the two cousins swim
off to their Saturday night fun.

I suppose you might have other questions about the infinite farm.

So let me try to answer a few of them.

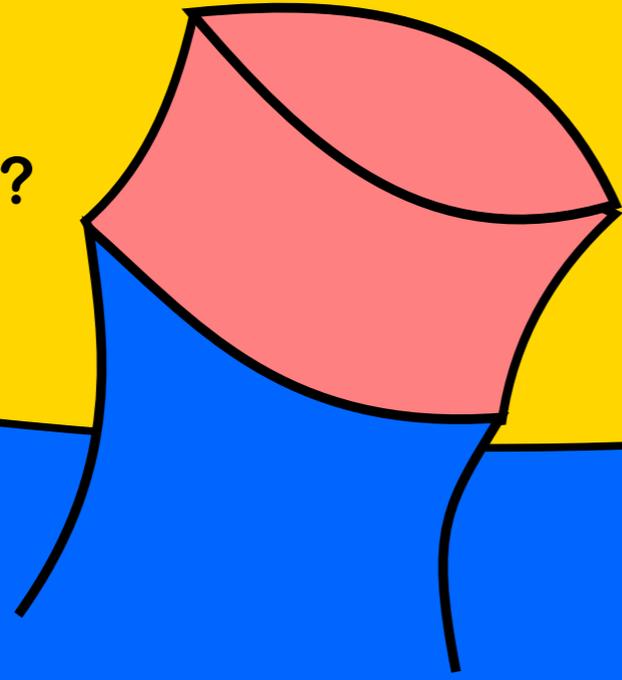


How does Beena
return the
jewelry to
Delores?



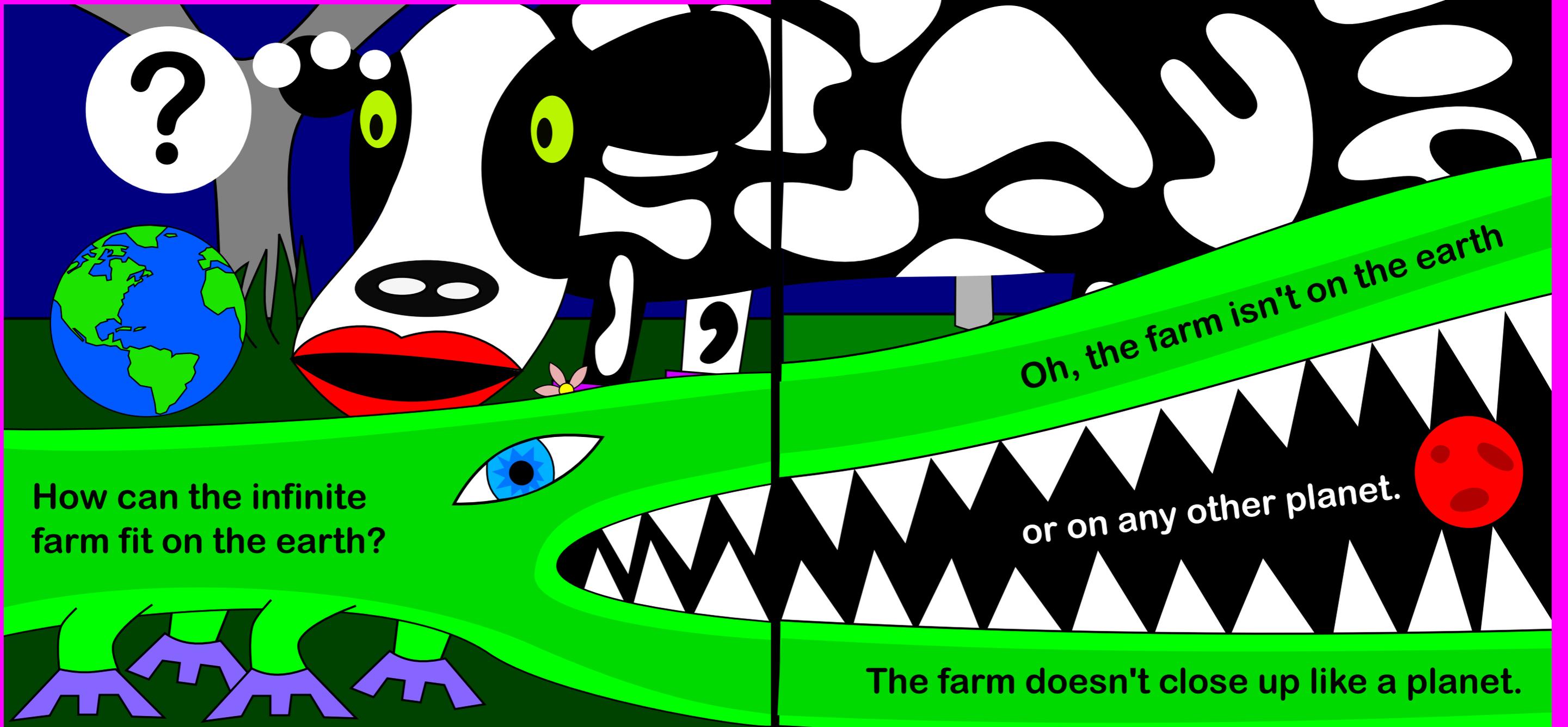
Easy! On
Sunday
mornings
they meet
and reverse
the whole
process.

Where does
Hammerwood
get his bubble gum?

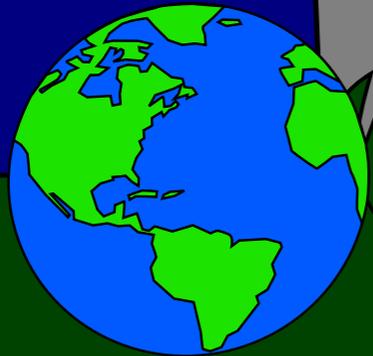


Simple. He crawls alongside
an infinite tube of the stuff
and bites off what he needs.

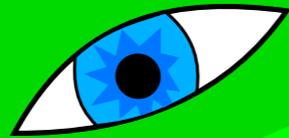




?



How can the infinite farm fit on the earth?



Oh, the farm isn't on the earth

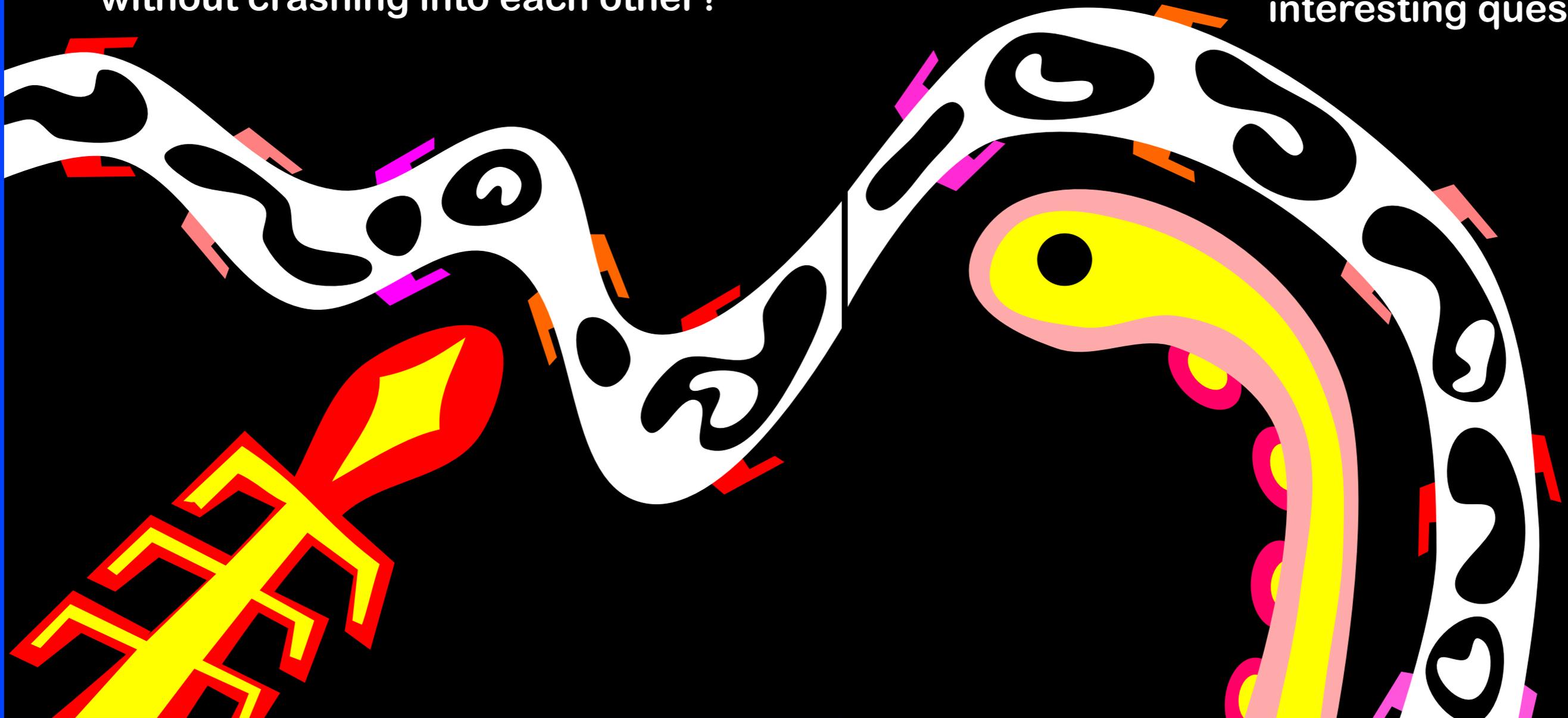
or on any other planet.



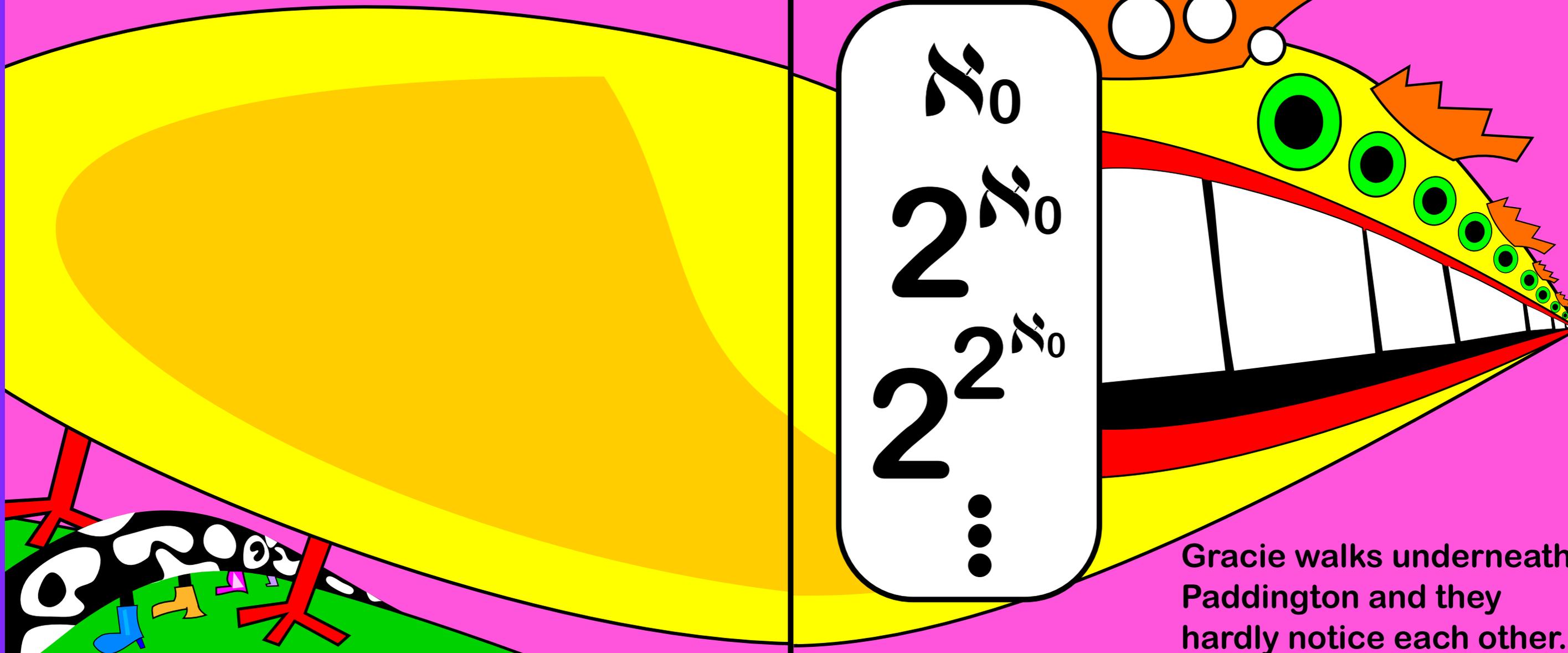
The farm doesn't close up like a planet.

And how do the animals move around
without crashing into each other?

Ah, that is a very
interesting question!

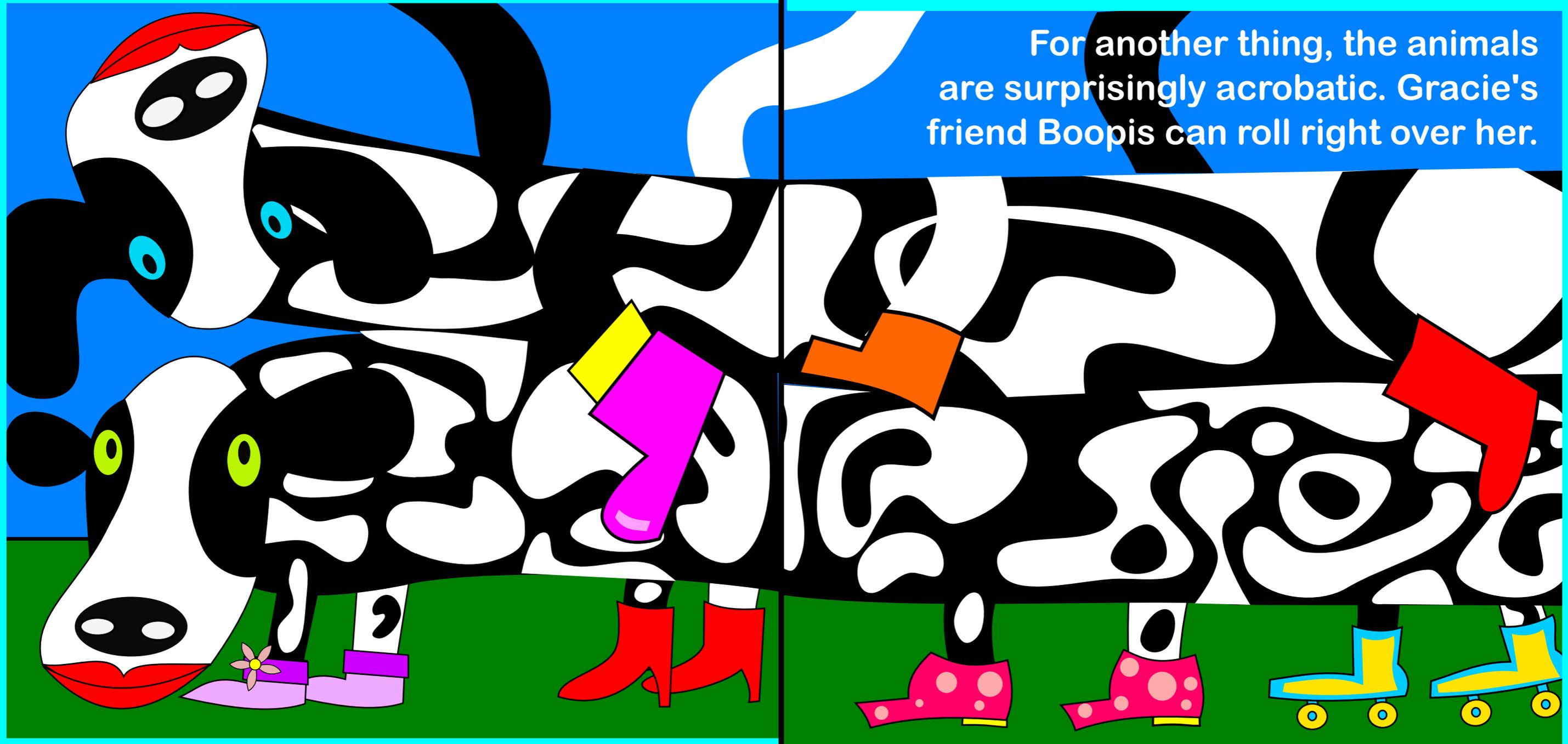


For one thing, the animals often have very different sizes.

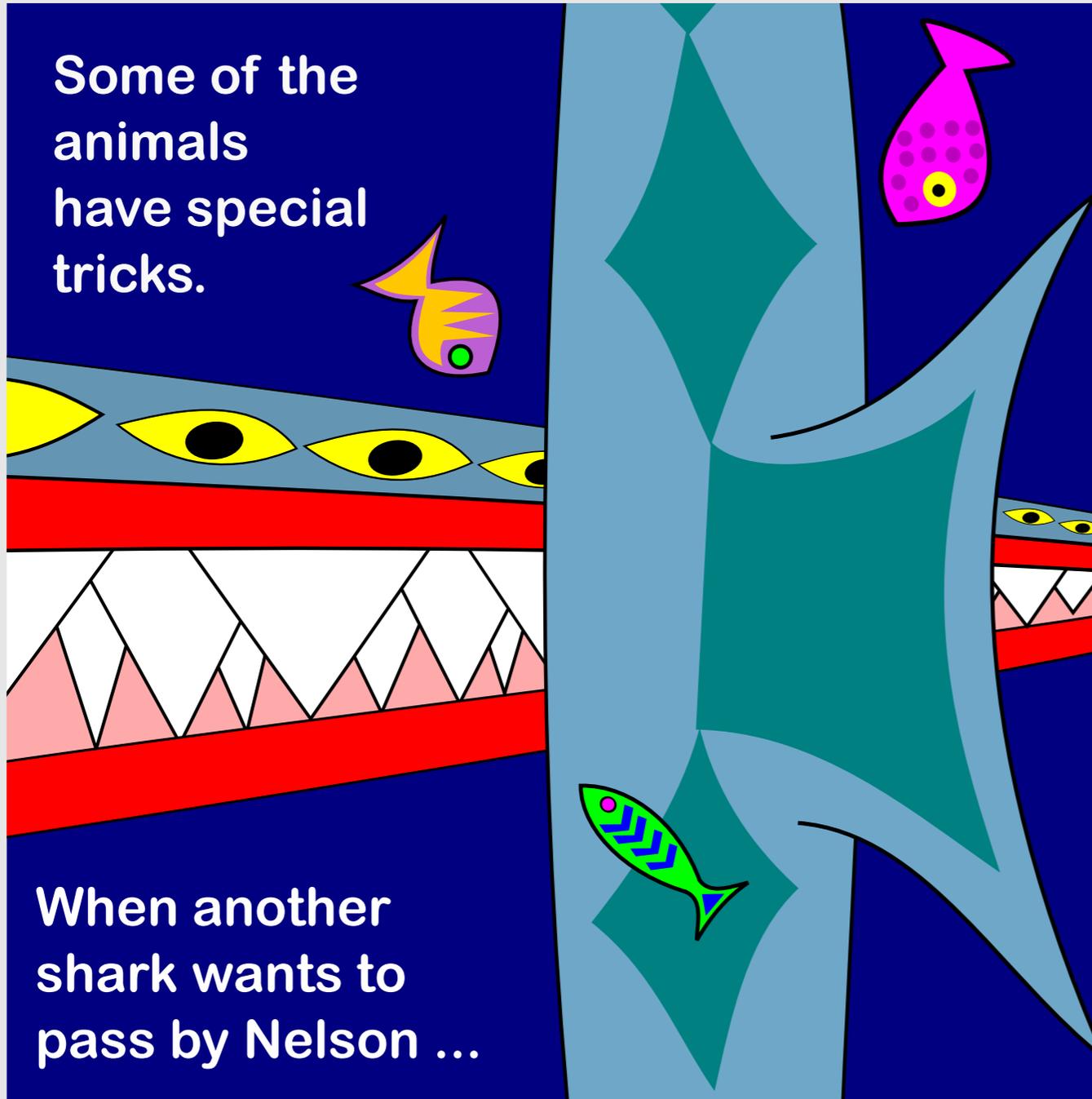


Gracie walks underneath Paddington and they hardly notice each other.

For another thing, the animals are surprisingly acrobatic. Gracie's friend Boopis can roll right over her.



Some of the animals have special tricks.



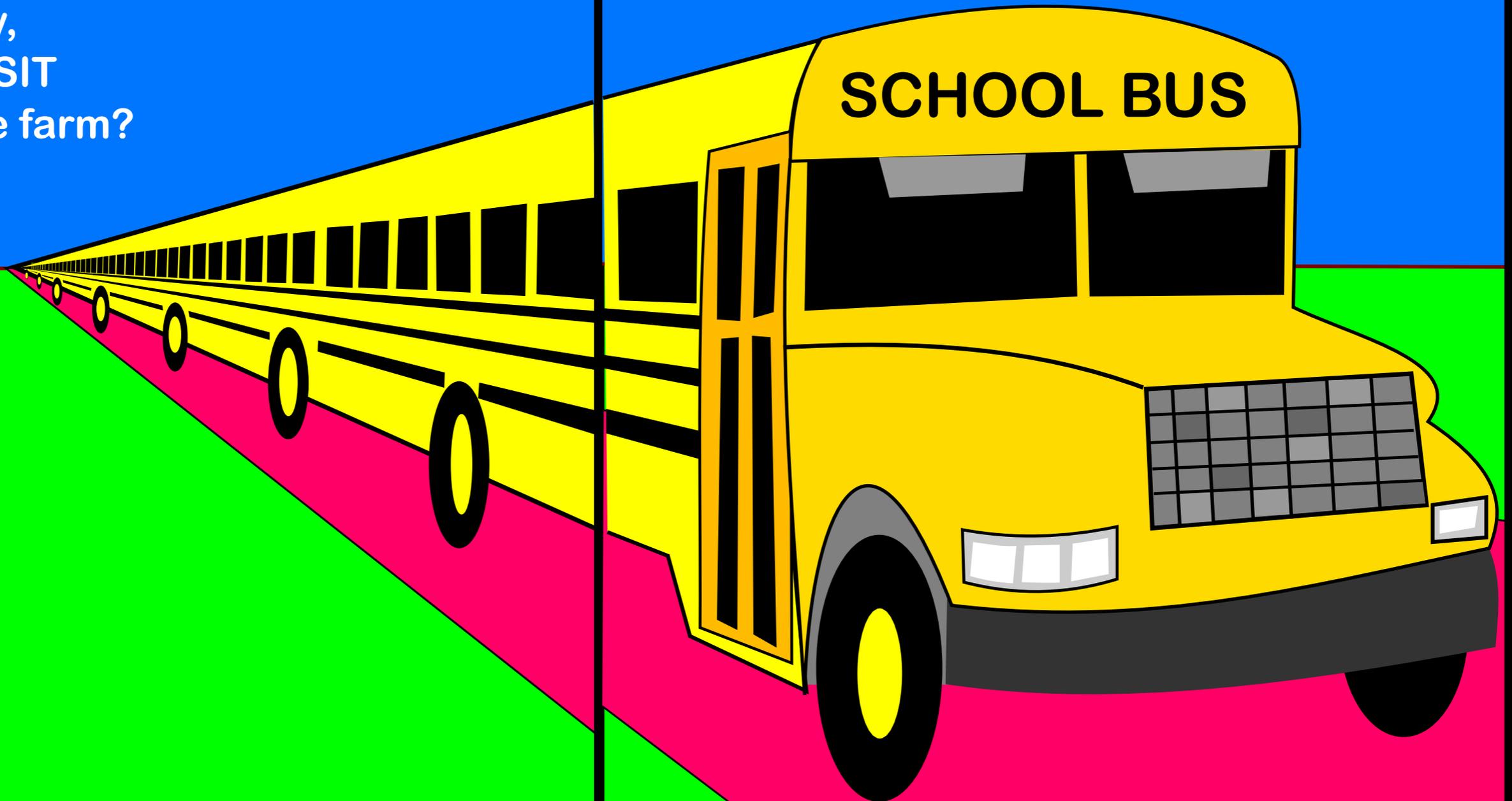
When another shark wants to pass by Nelson ...

little fish open up part of Nelson's mouth like a door ...



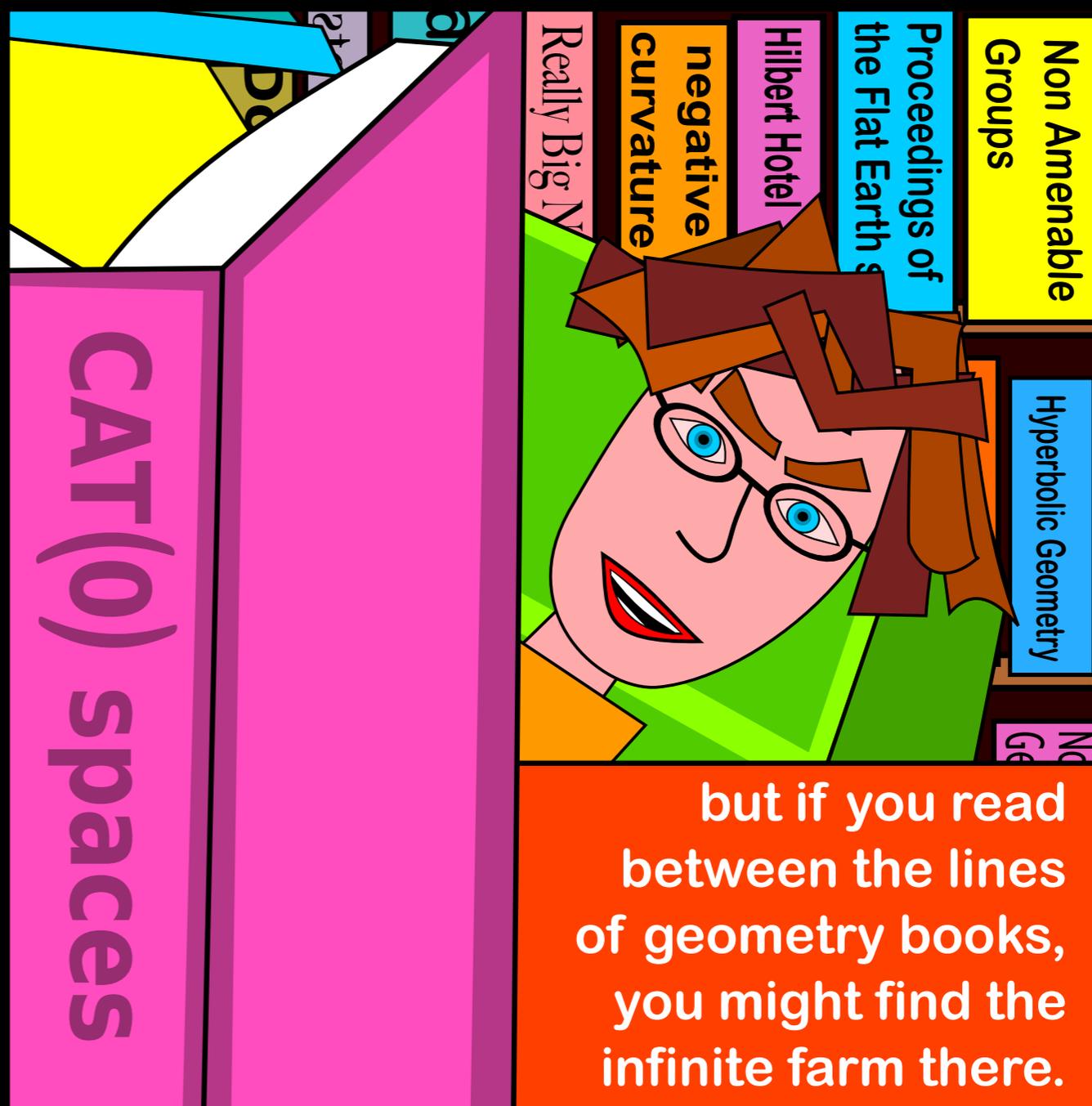
and then the other shark can get through.

And finally,
can we VISIT
the infinite farm?

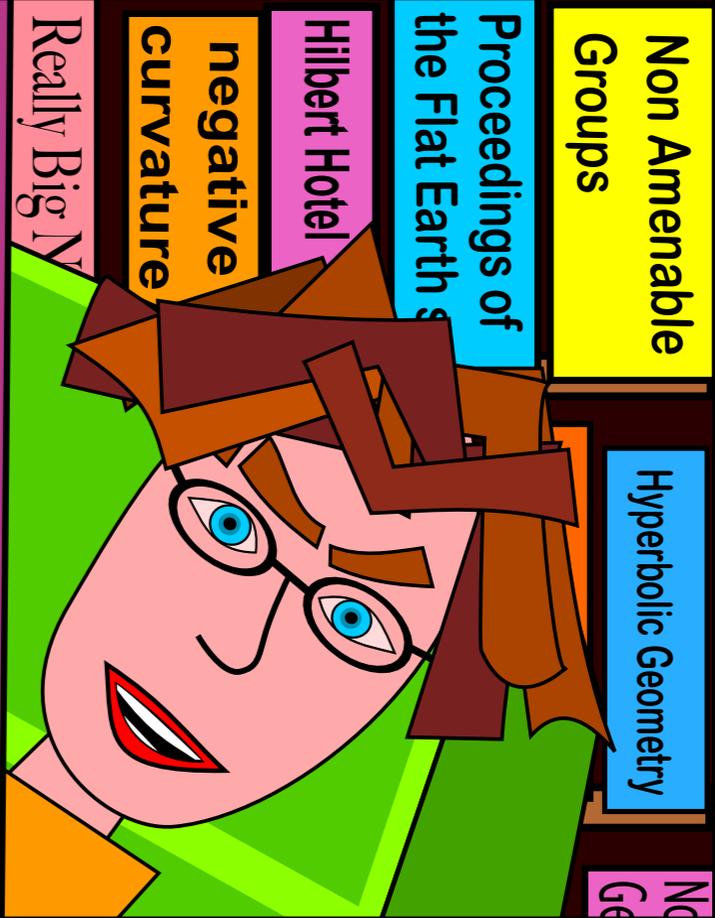




Well, it depends on what you mean by "visit". Unfortunately, we're stuck on the earth ...



CAT(0) spaces



but if you read between the lines of geometry books, you might find the infinite farm there.