

# The ADVENTURES — OF — TALMA \* ALMA



TODAY

"THE COSMIC  
MAGNIFYING GLASS"



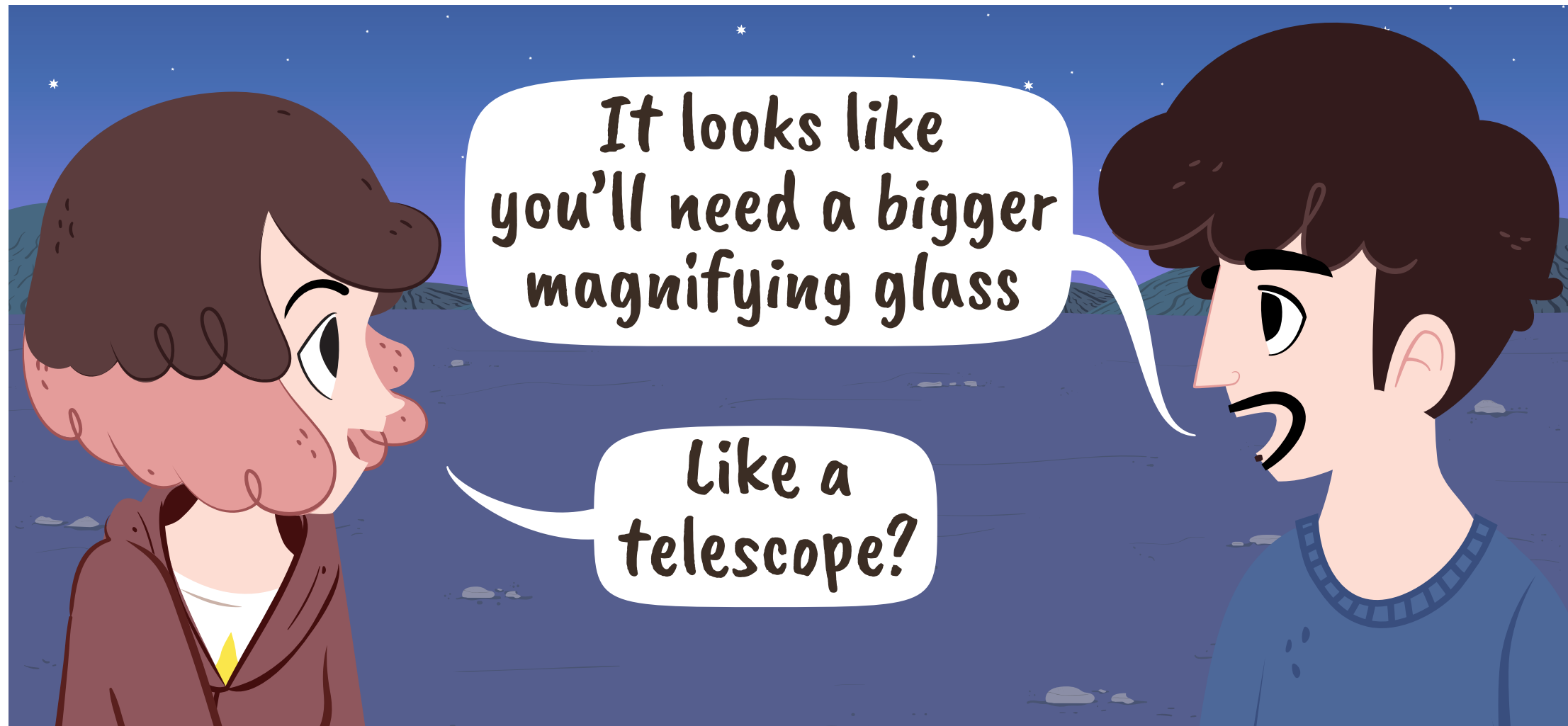


ATACAMA DESERT, CHILE



There you are, Talma.  
What are you doing?

I'm looking for  
new planets



It looks like  
you'll need a bigger  
magnifying glass

Like a  
telescope?

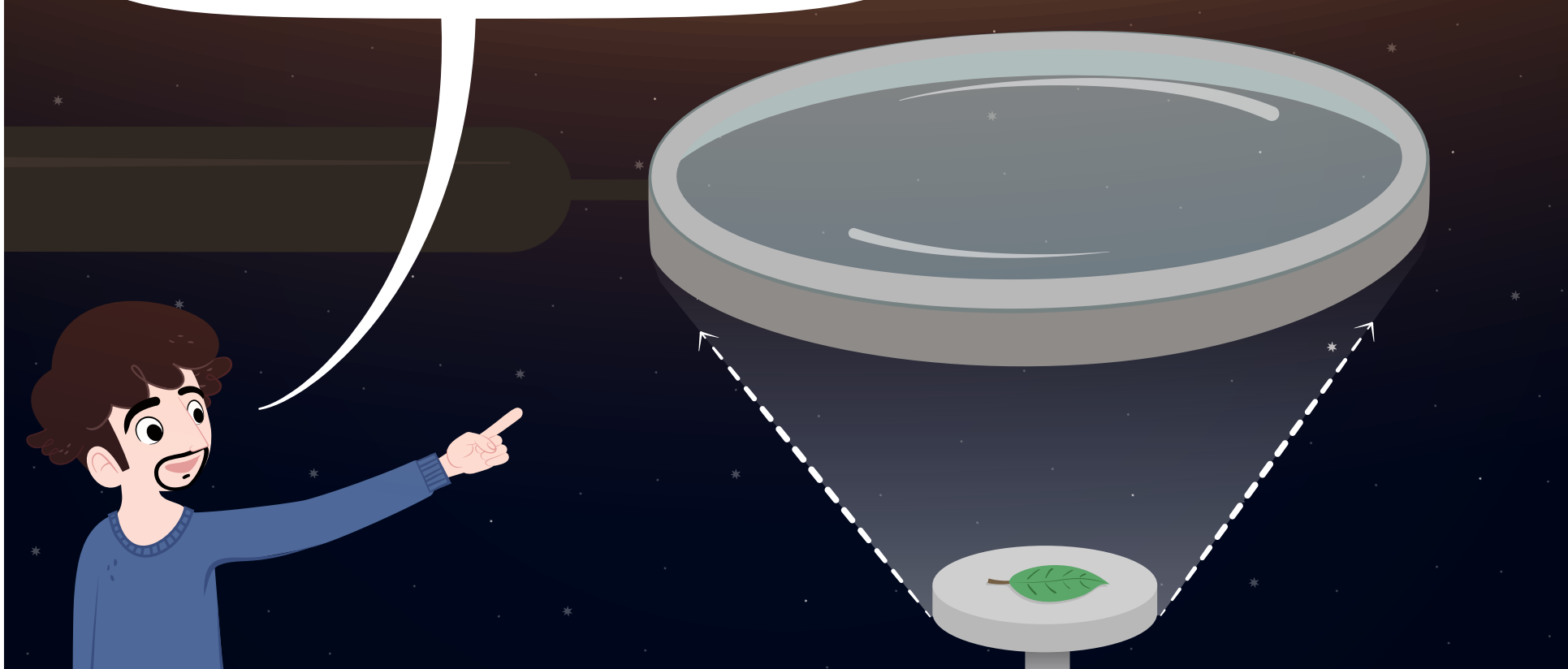


Or maybe a cosmic  
magnifying glass

What's  
that?



A magnifying glass lets us augment what we see by changing the direction of the rays of light

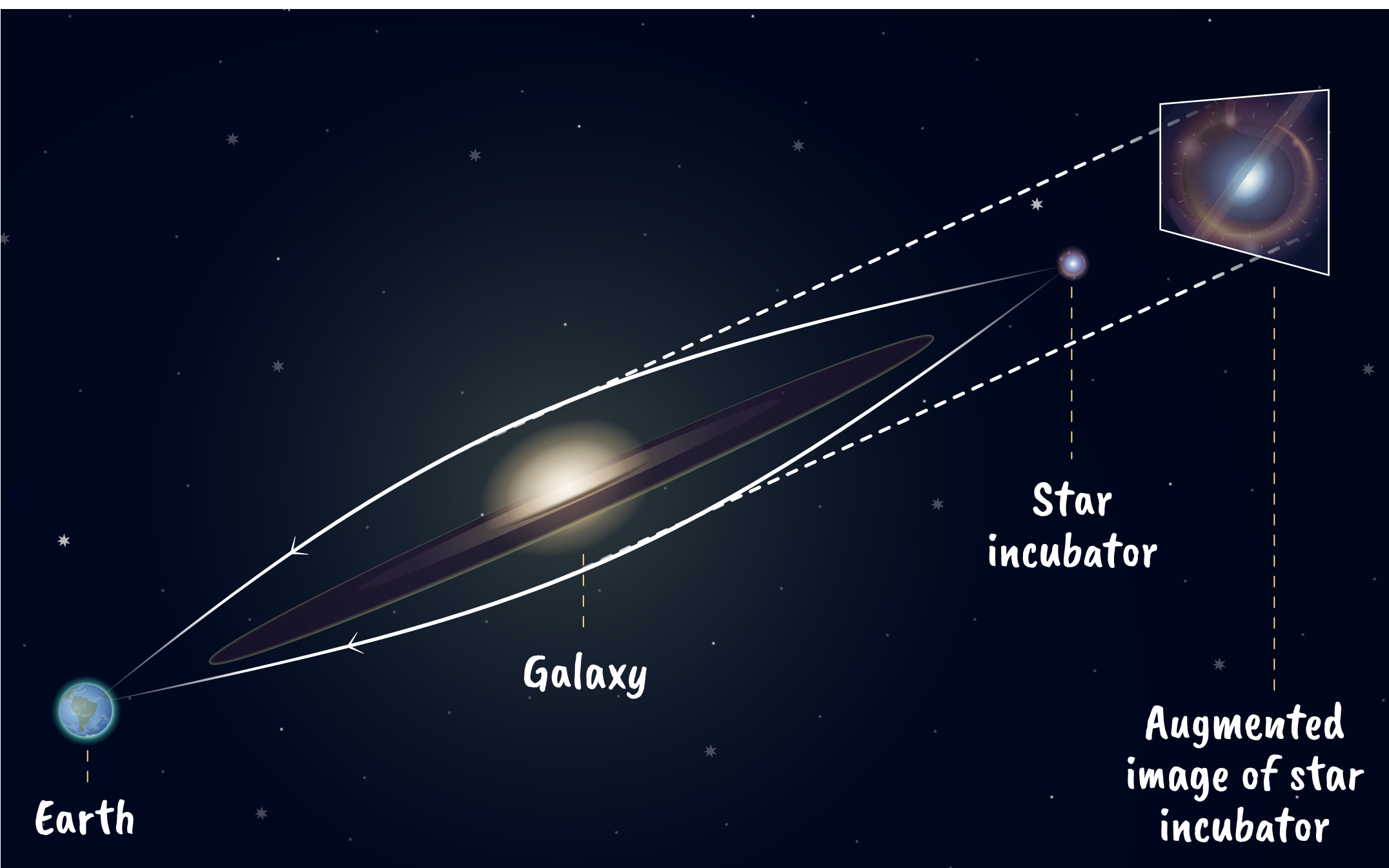


Just like my detective's magnifying glass!



That's right. This phenomenon also occurs in the Universe, and thanks to Albert Einstein, we know this as the "Gravitational Lens"

Albert Einstein (1879 - 1955)



He proposed that light curves around very massive objects, because they have so much gravity



Like galaxies?  
Yes!

So in space there are magnifying glasses as big as galaxies?







Exactly. Even galaxy clusters can operate as cosmic magnifying glasses



Thanks to this phenomenon and the help of 12 telescopes, we were able to obtain this image

It shows 2 galaxies colliding and provoking the birth of new stars. They are 7,000 million light-years away from Earth

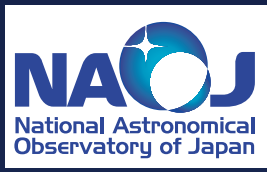
What is it?



You were right, Mathias. I need a bigger magnifying glass



The End



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