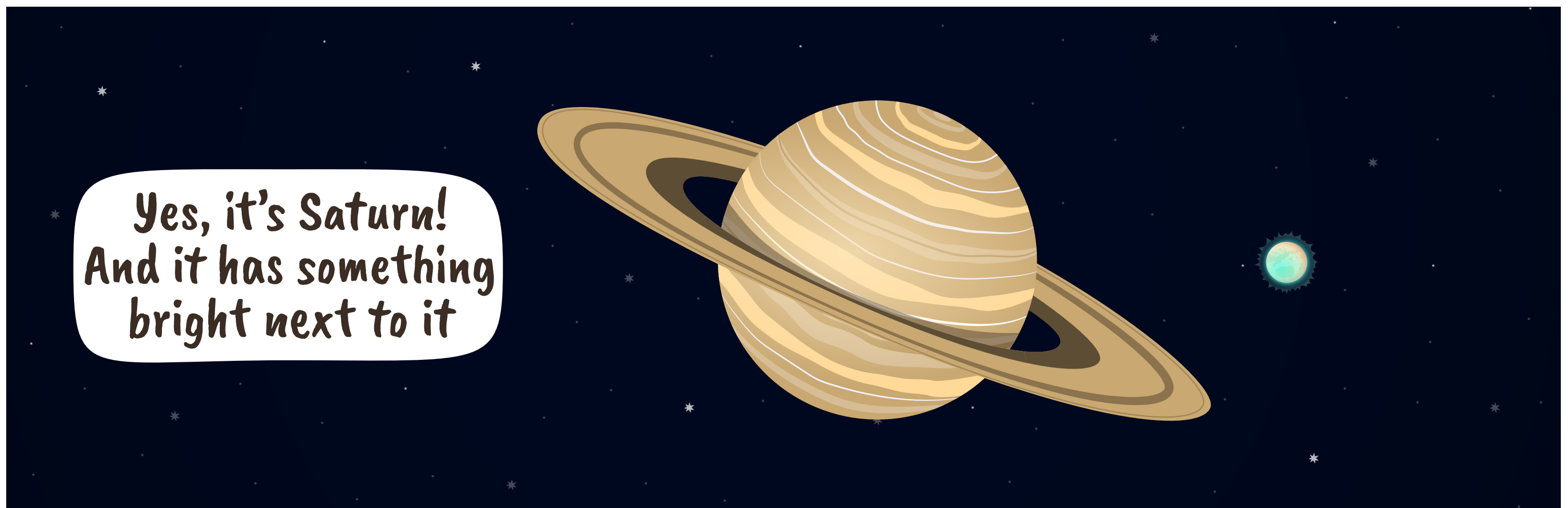
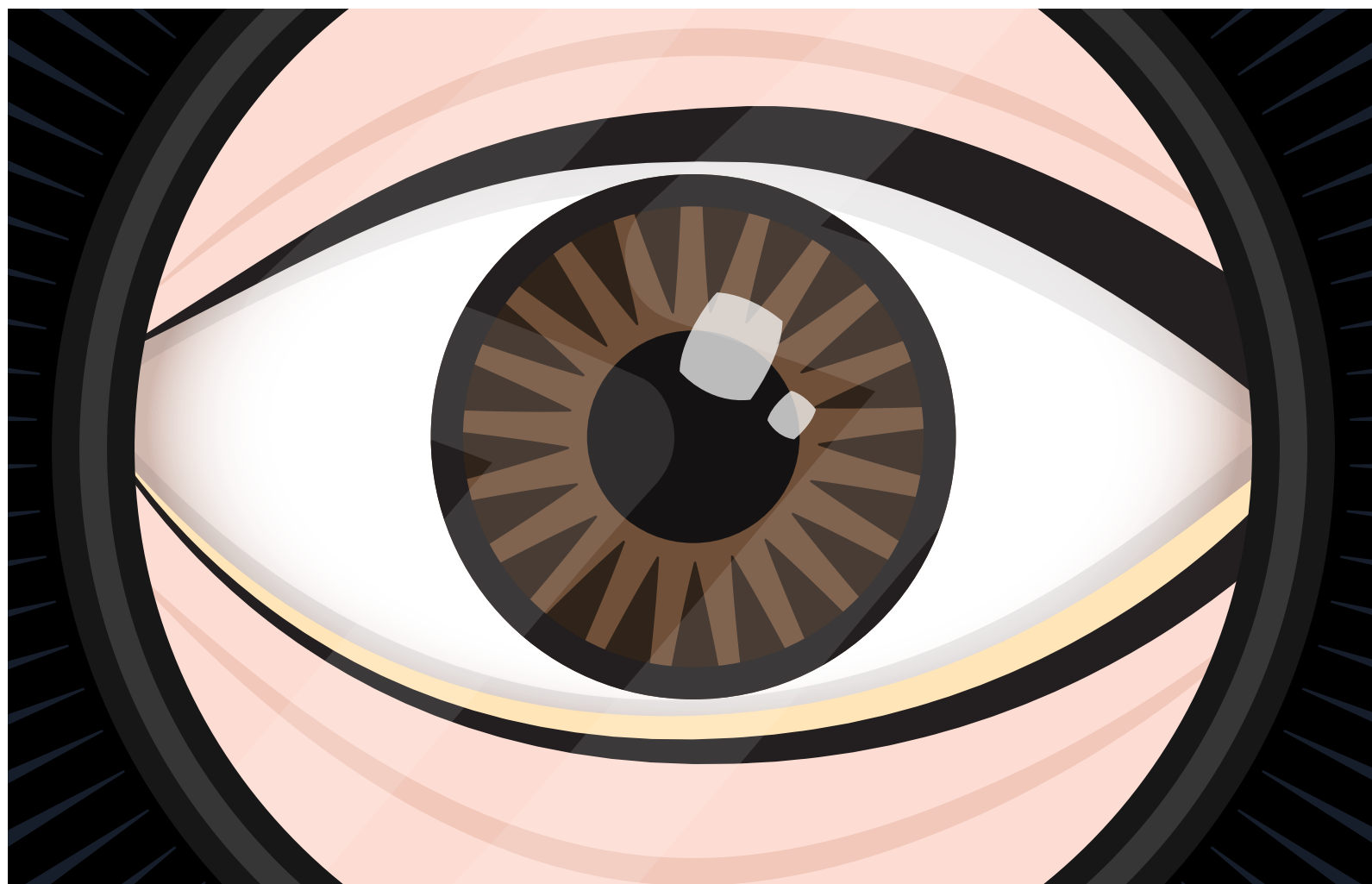


The ADVENTURES — OF — TALMA ALMA

TODAY

"A TITAN-IC ATMOSPHERE"



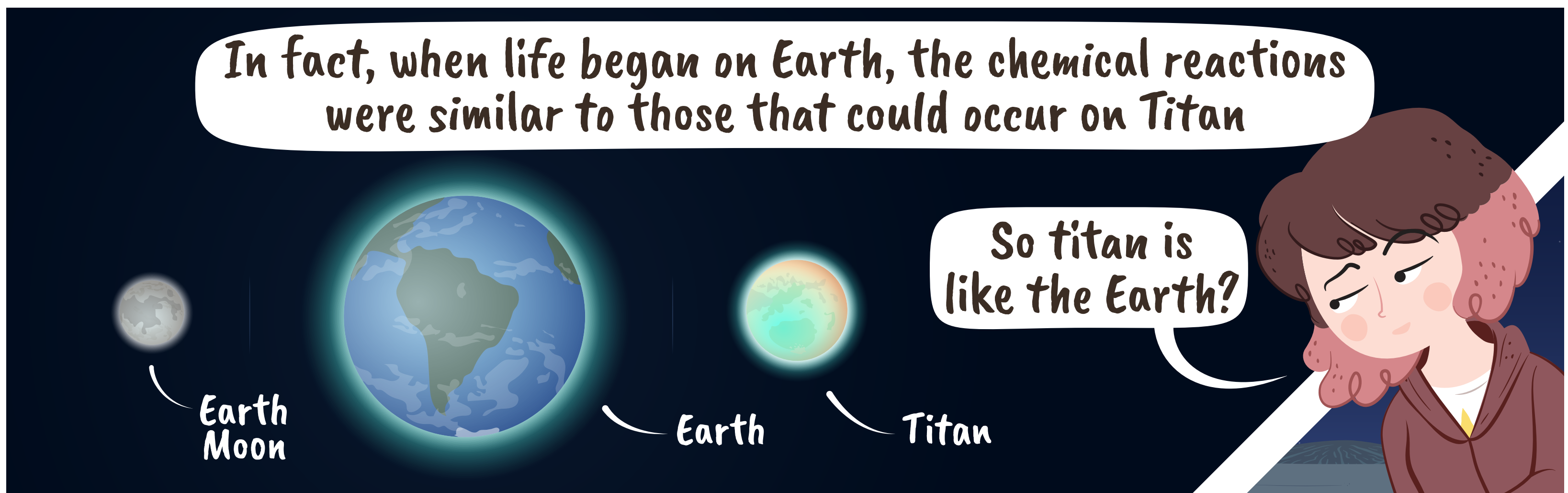




Yes, it has 53 moons! But the only one with an atmosphere is Titan



Its atmosphere has methane, ethane and a lot of nitrogen gas



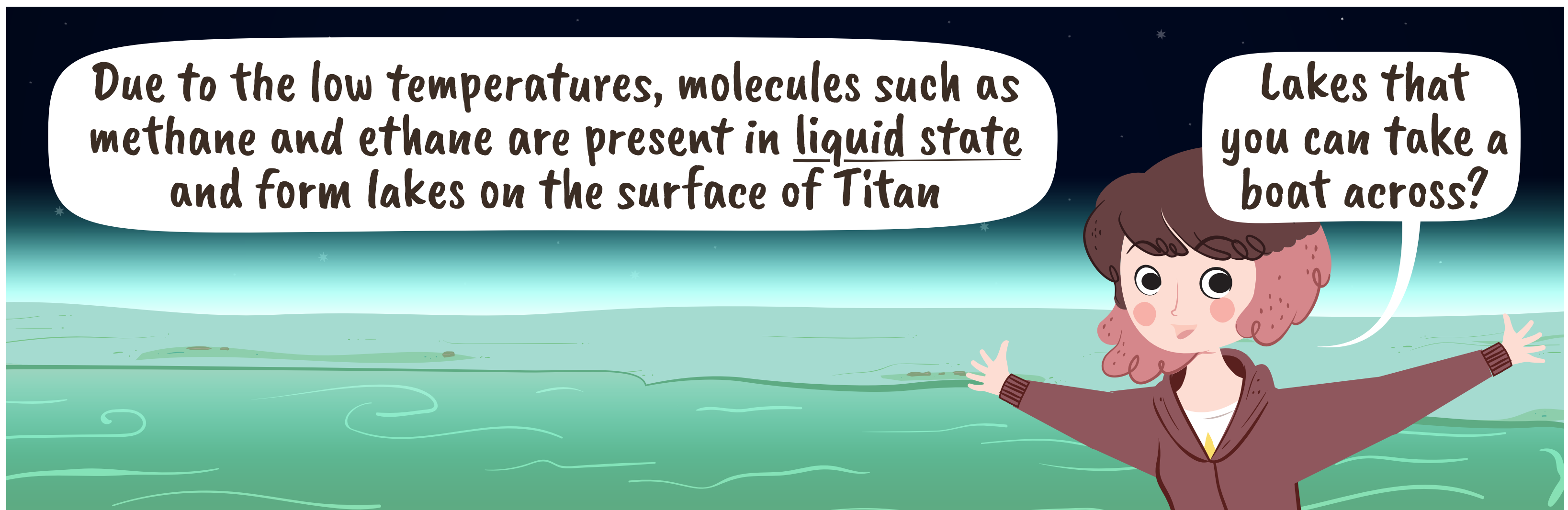
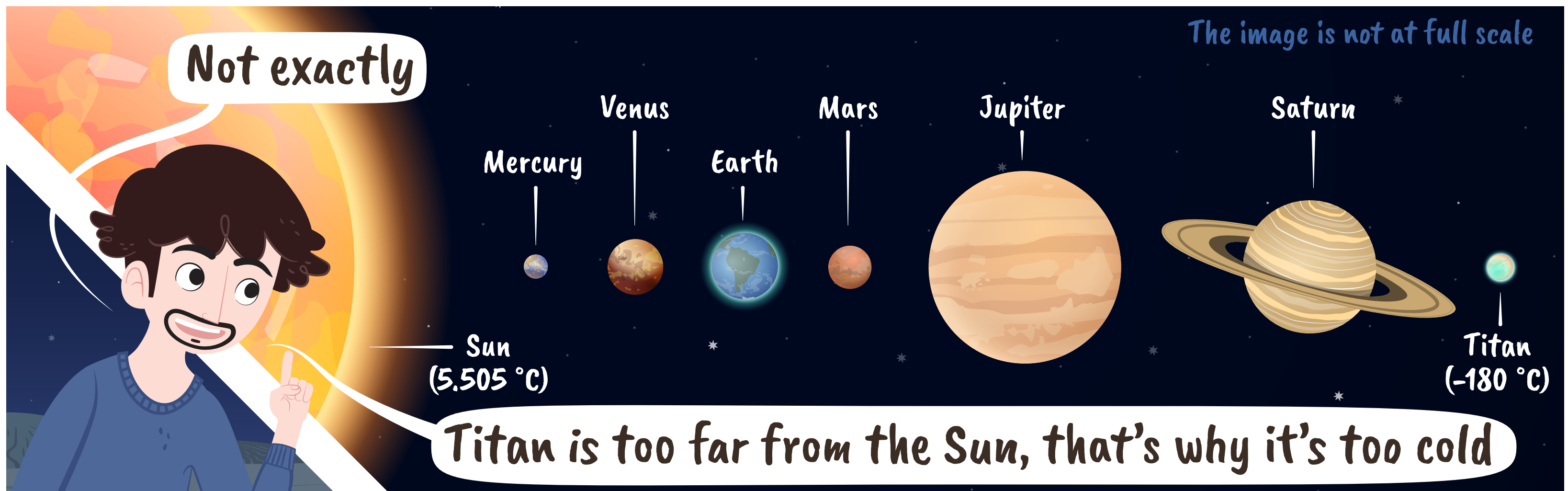
In fact, when life began on Earth, the chemical reactions were similar to those that could occur on Titan

So Titan is like the Earth?

Earth Moon

Earth


Titan





Interestingly, ALMA found vinyl cyanide molecules on Titan

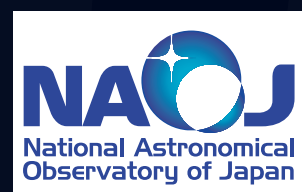
These molecules can join together and form tiny spheres, like the walls of living cells



This could be happening on Titan's lakes, which have a temperature of -180°C



Similar to what happened on Earth when life originated...



...4.000 million
years ago!

Script
David Fernández

Illustrations
David Fernández and José Pinto

Supervision
José Pinto - Valeria Foncea - Nicolás Lira



This comic is part of David Fernández's undergraduate internship for his degree in Audiovisual Communication, with a mention in Film and TV Scriptwriting, which he is carrying out in the ALMA Observatory Education and Public Outreach Department. Original characters designed by Frannerd.

The End