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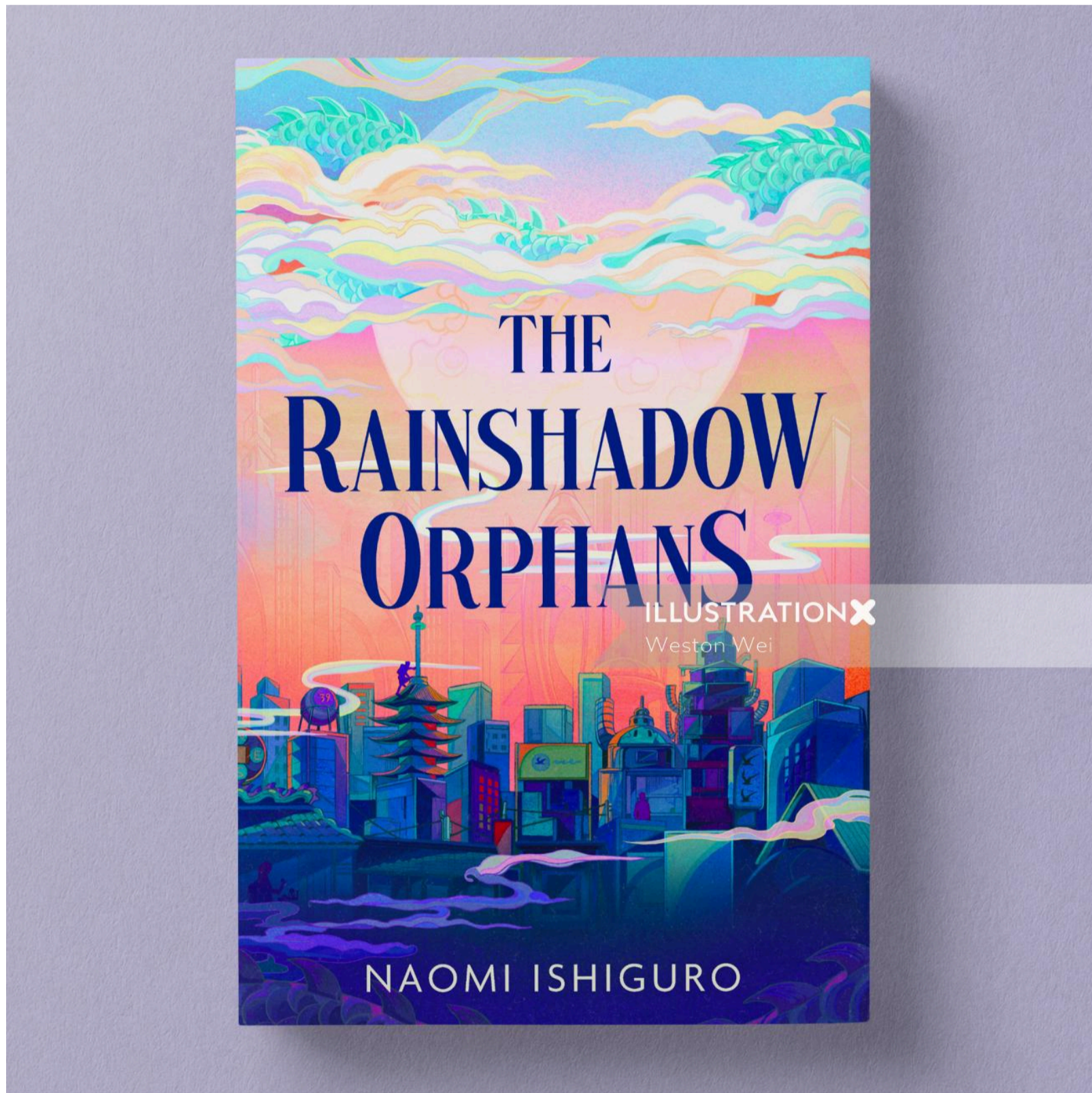
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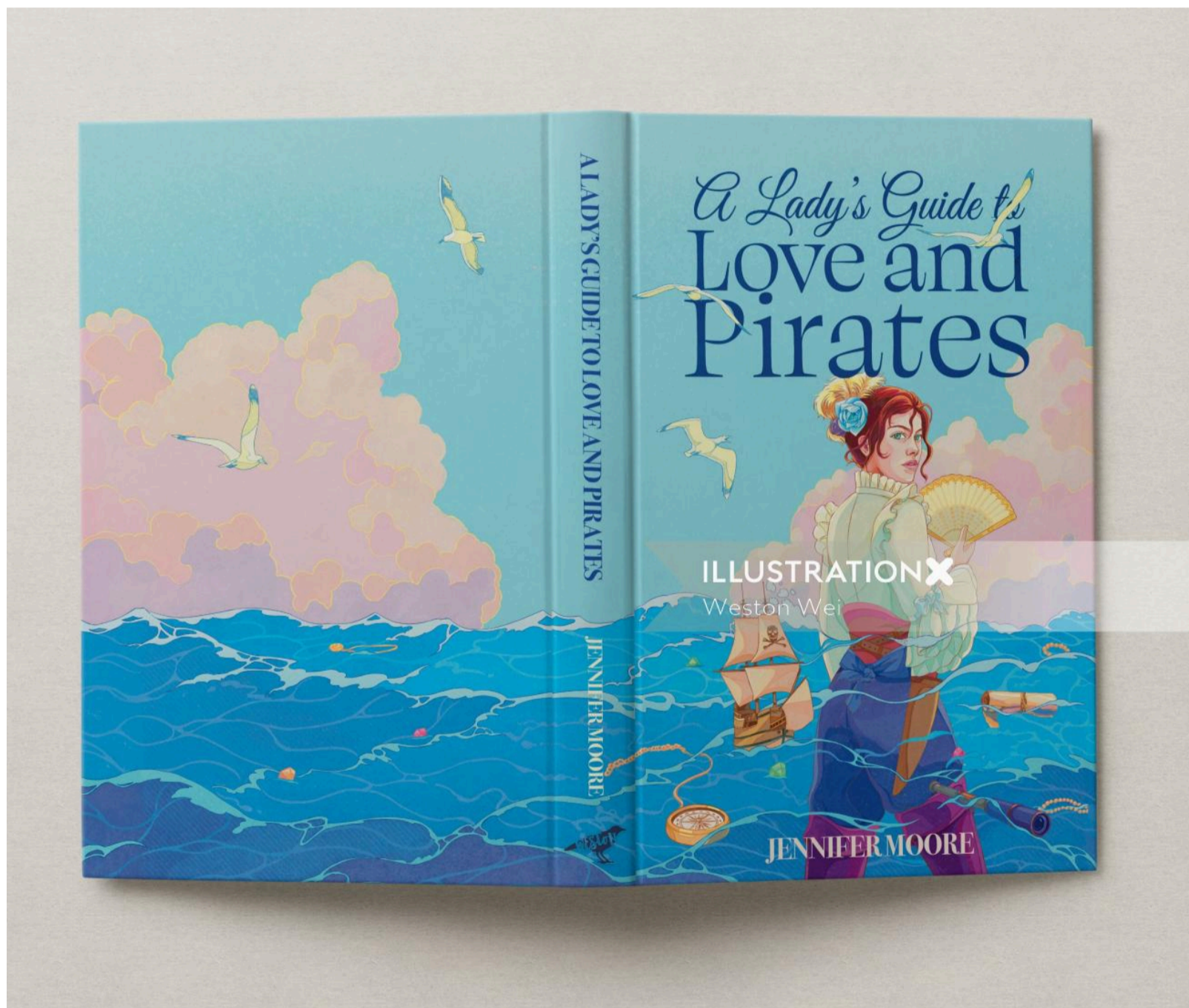
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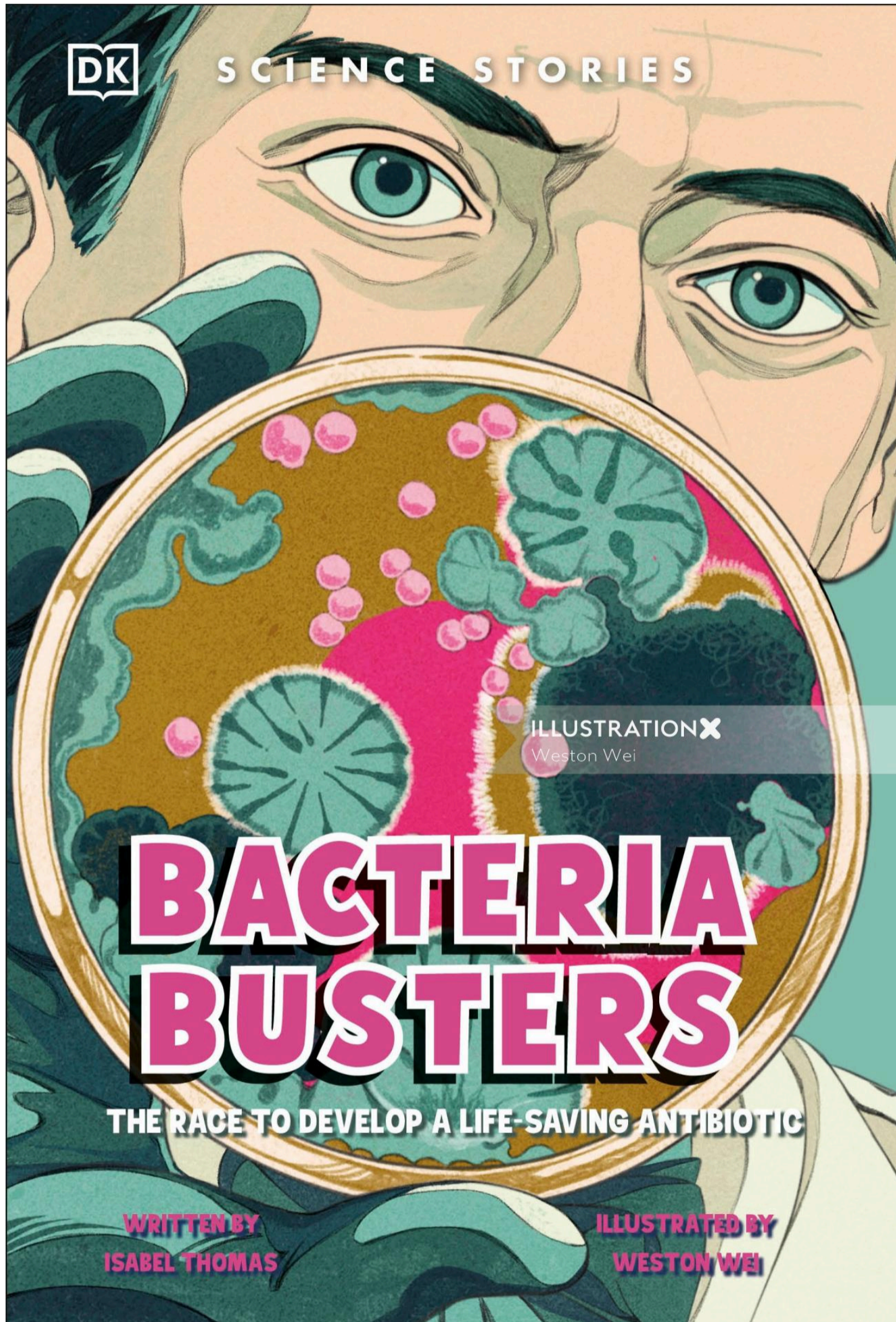
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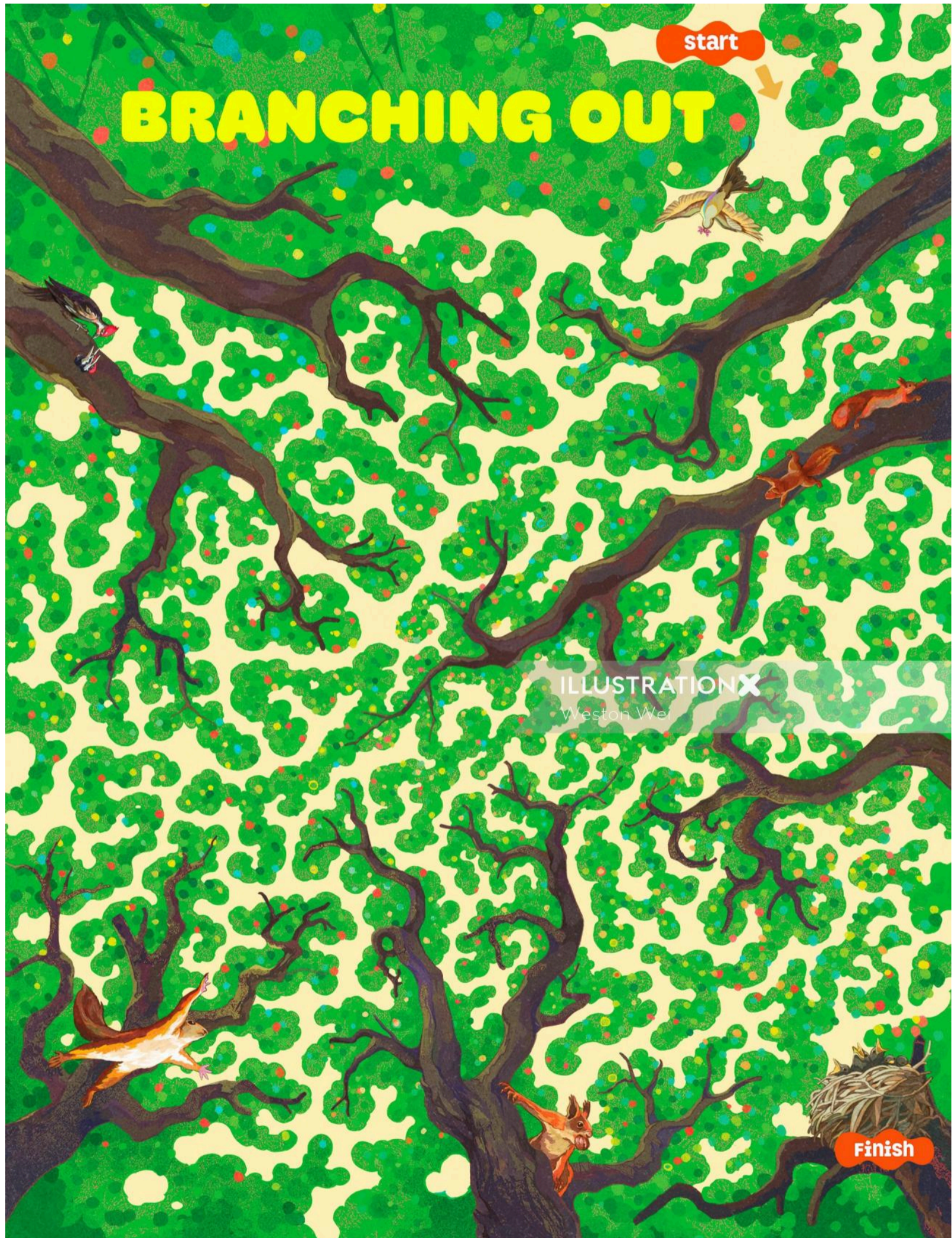
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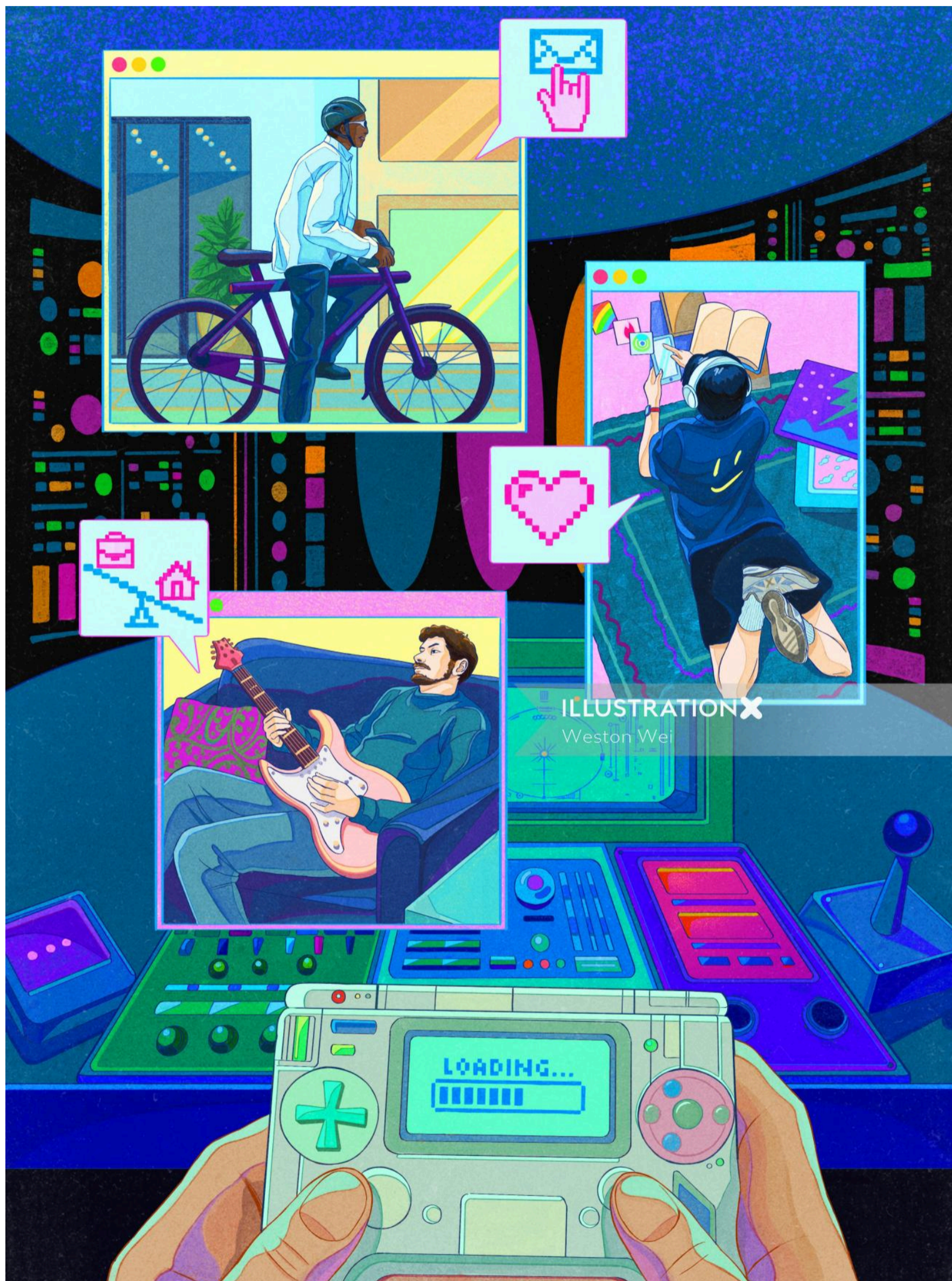
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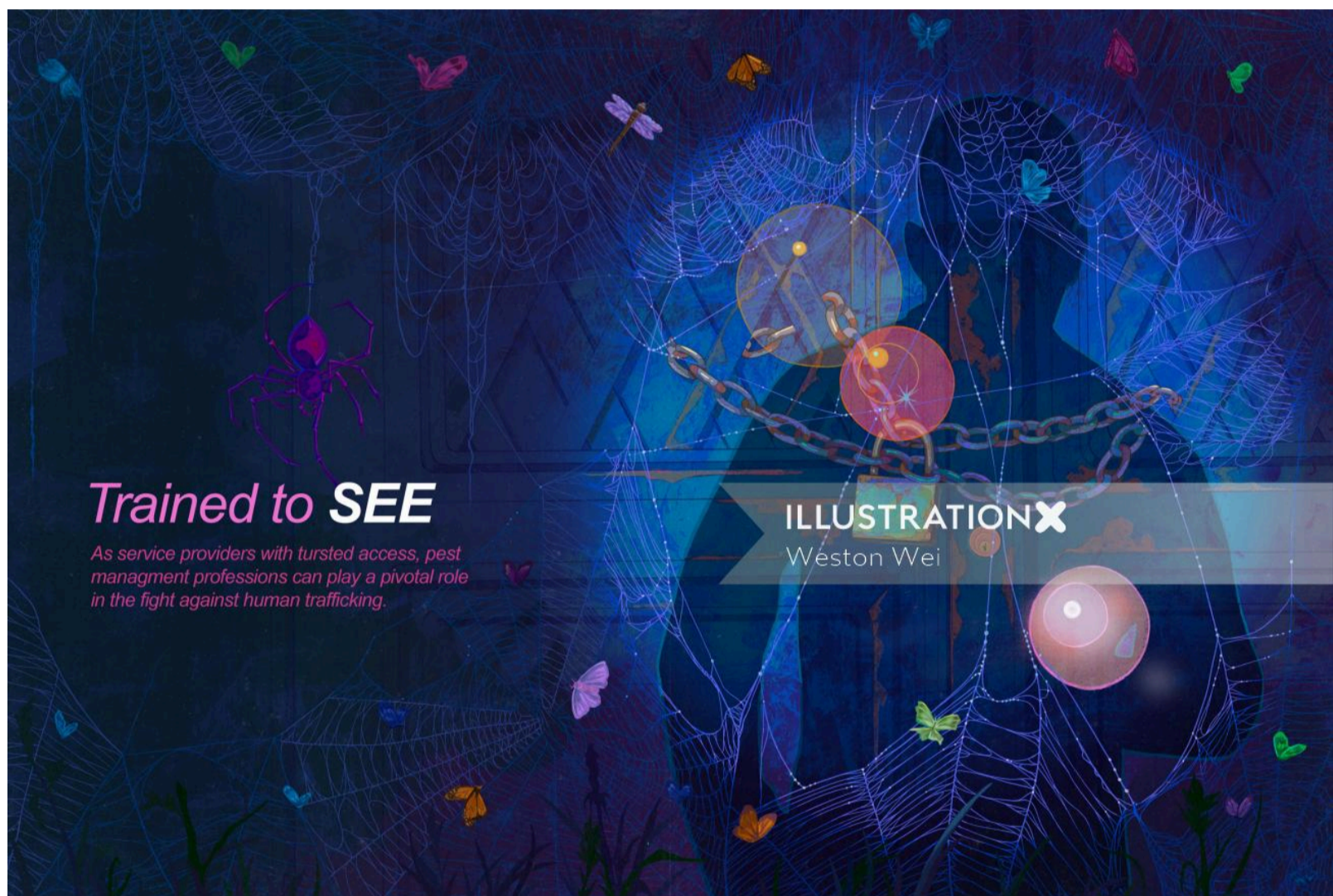
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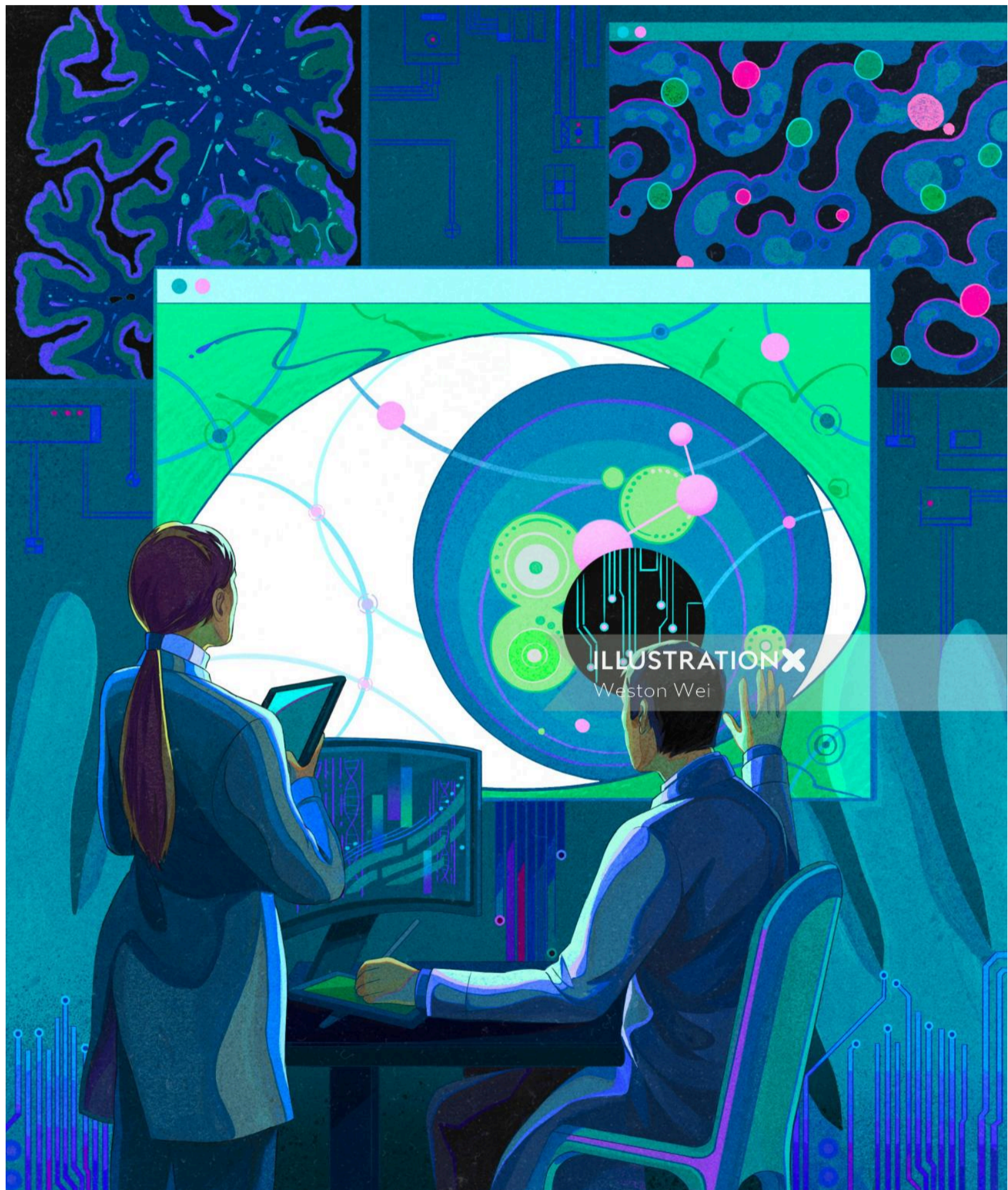
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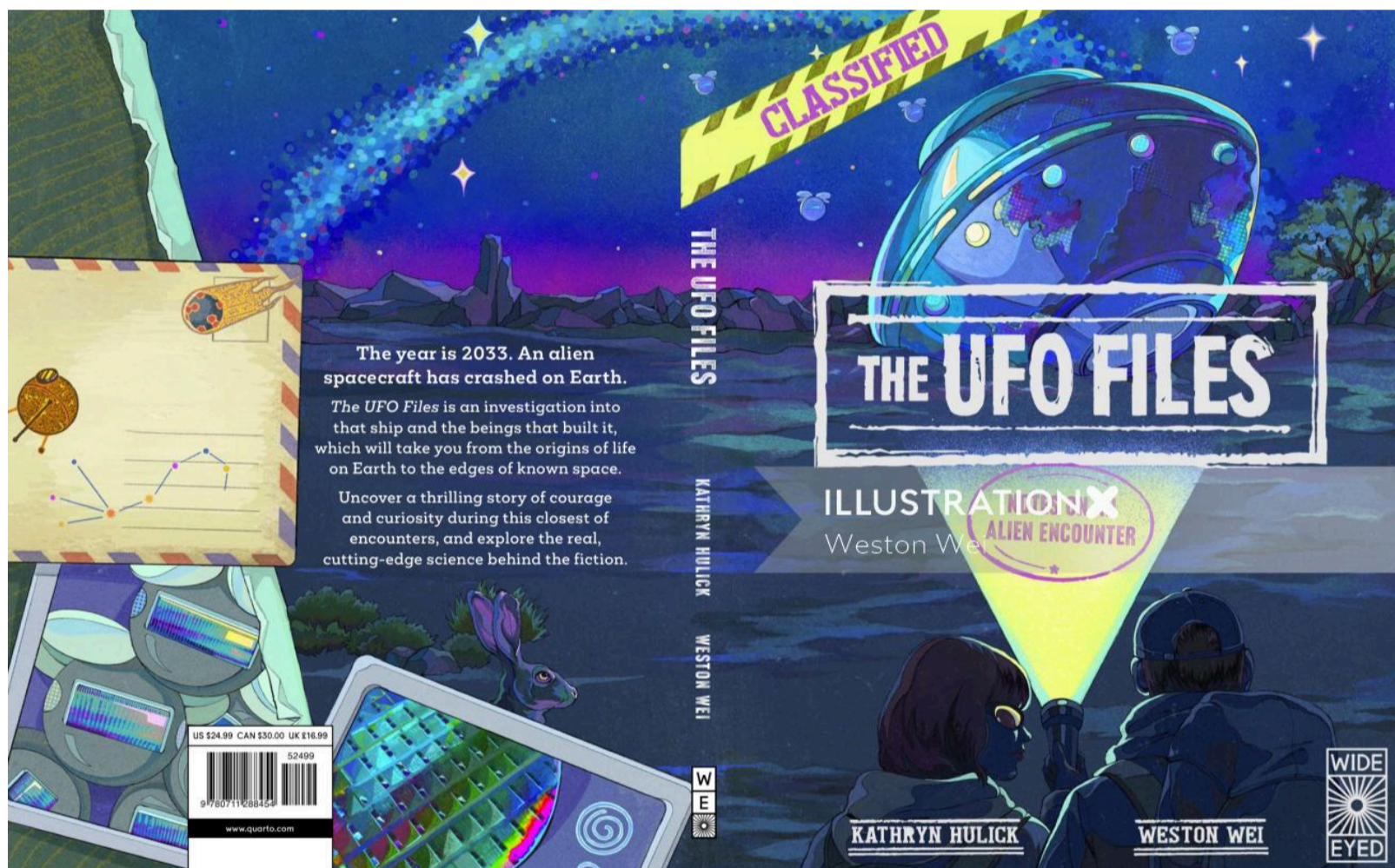
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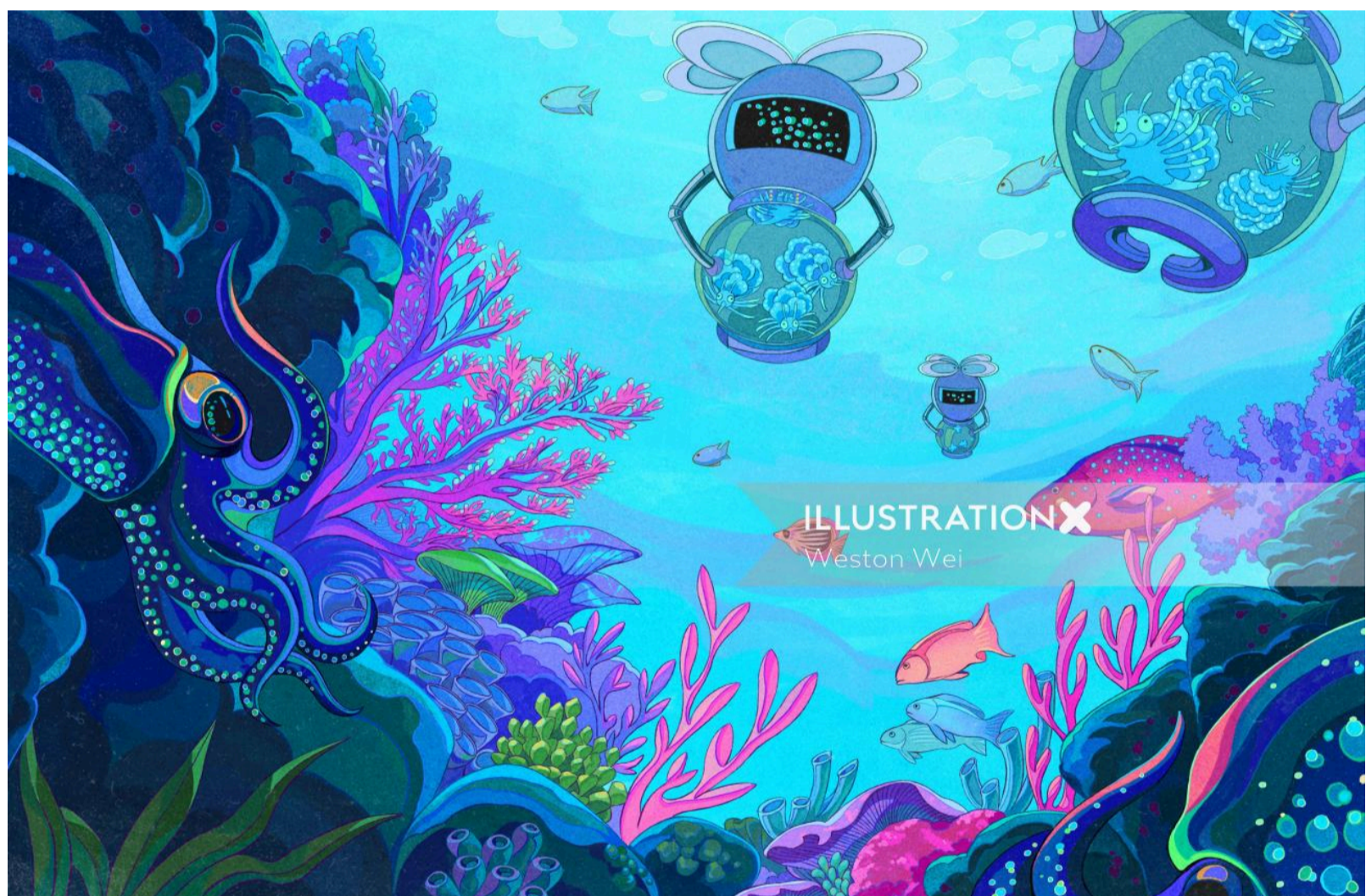
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Text conversation, May 24, 2030

A narrow band signal that comes from space could be evidence of alien technology!

Cory: We found something.
Viaan: What?
Cory: A narrow band signal. It was in this morning's observations.
Viaan:
Cory: It's in the hydrogen band.
Viaan: Interesting.
Cory: I'll let you know if we see it again.

Signal captured at Allen Telescope Array, Hat Creek, California, United States

Frequency of the hydrogen band = 1420.4 MHz.
Very important for radio astronomy!

Allen Telescope Array, Hat Creek, California, United States

The electromagnetic spectrum

The light that people can see makes up a very small sliver of a vast spectrum of different types of electromagnetic energy, in the form of waves. This spectrum is arranged by frequency, measured in hertz (Hz), which is a count of the number of waves per second. Radio waves have a low frequency, often measured in megahertz (MHz). They can pass through solid objects, so travel very long distances.

Radio astronomy

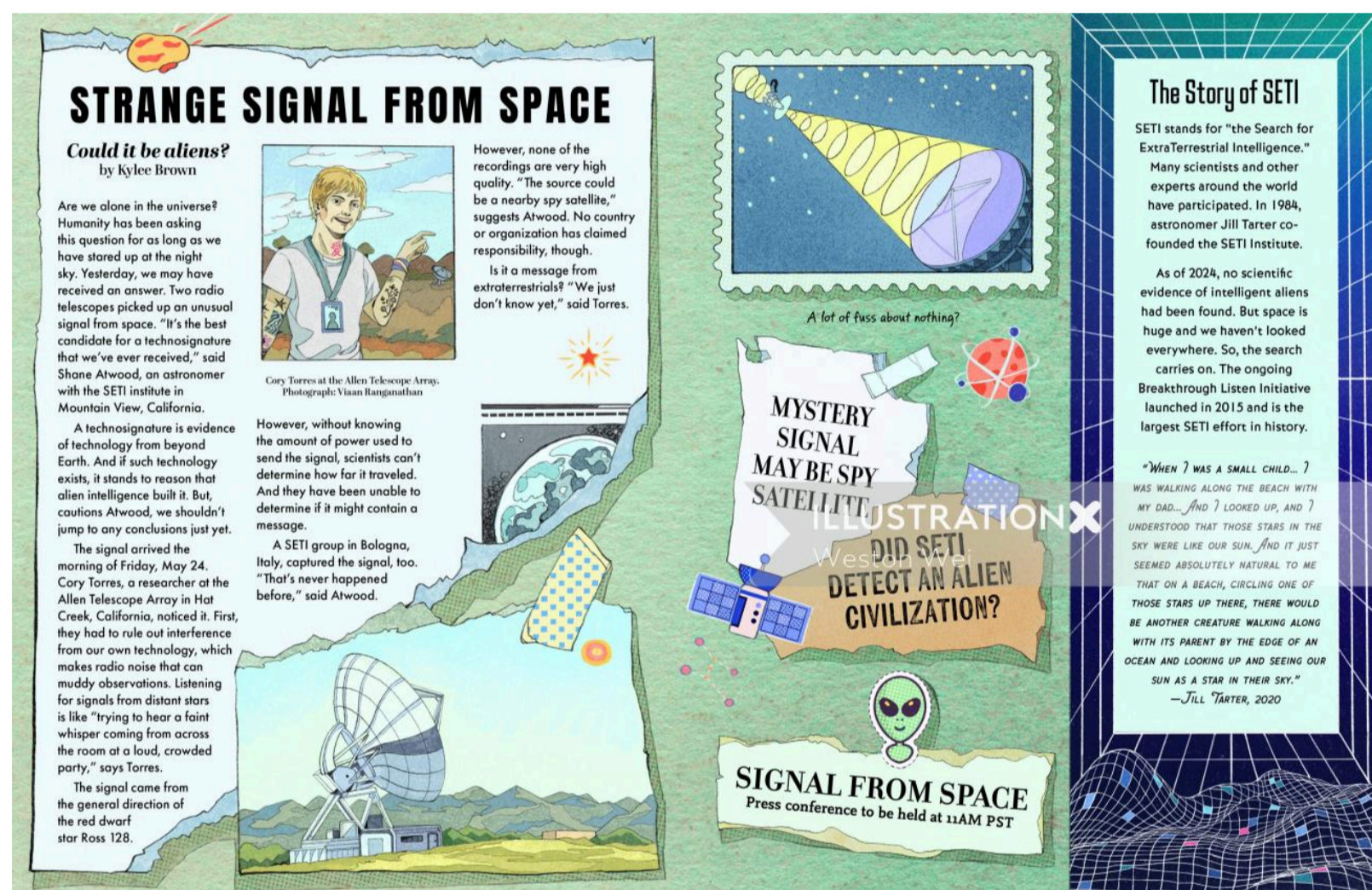
In radio astronomy, a special telescope picks up radio waves from space. Stars and other objects in space shine with all kinds of energy, including radio waves. These natural sources emit wide band signals, meaning many frequencies at once. Many types of human technology—including cell phones—send and receive radio waves to communicate. These use narrow band signals, meaning just one frequency at a time. Scientists suspect alien technology might use narrow bands, too.

The hydrogen band

Hydrogen is part of the water molecule, and water is essential for life as we know it. Hydrogen gas throughout the universe gives off a faint radio glow at a special frequency, 1420.4 MHz. Alien civilizations might send a strong signal at this frequency, because anyone using radio technology would likely already be paying attention.

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조언이 필요하신가요?

도와드릴 준비가 되어 있습니다



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