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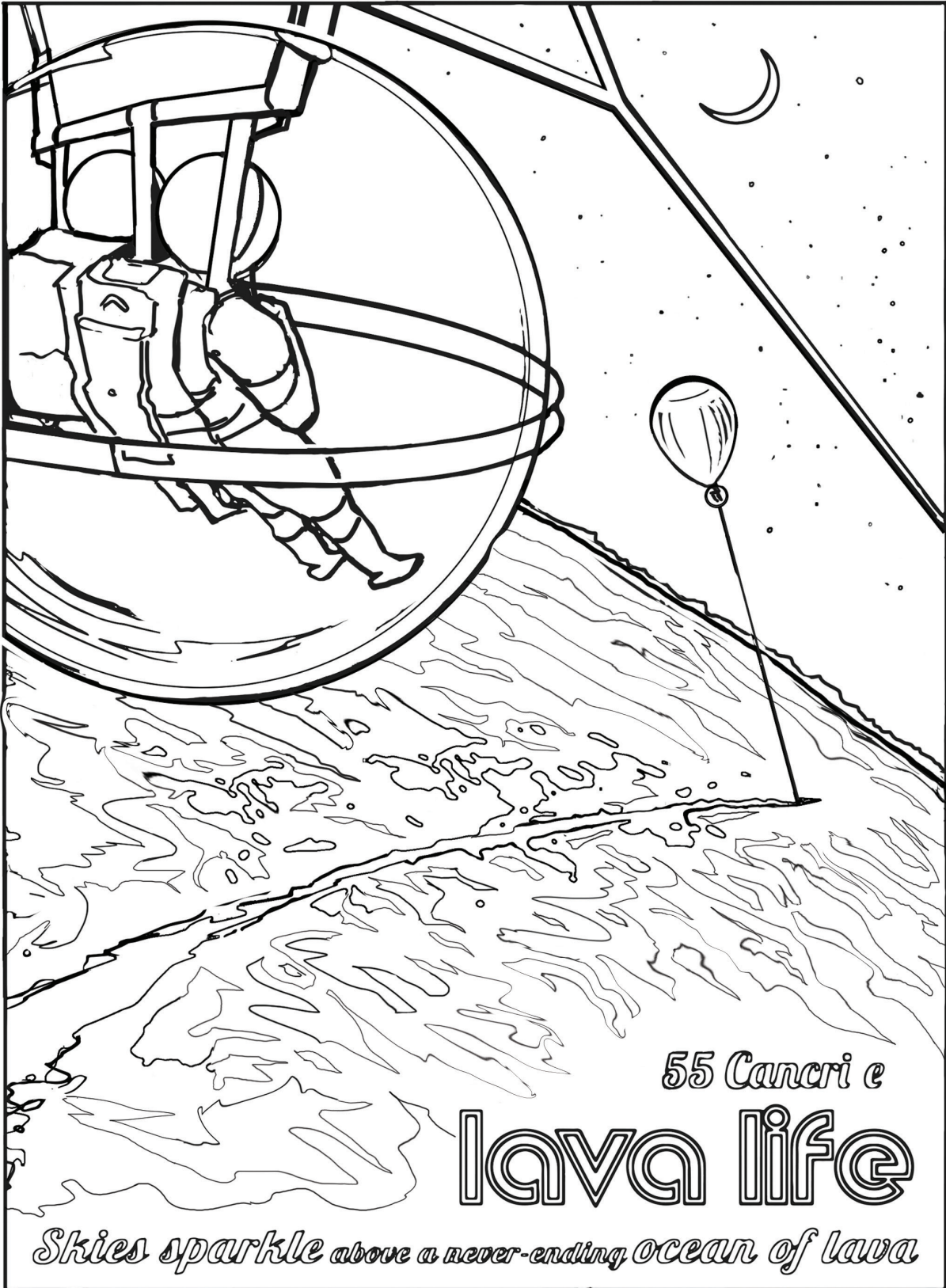


51 Pegasi b stands out among the first exoplanets discovered. It's about half the mass of Jupiter, with a star-hugging orbit that means its "year" is only 4.2 Earth days! It is the first planet confirmed to orbit a Sun-like star, and it ushered in a new class of planets called "Hot Jupiters": massive planets orbiting extremely close to their stars.

**What colors would light up the first exoplanets discovered?**



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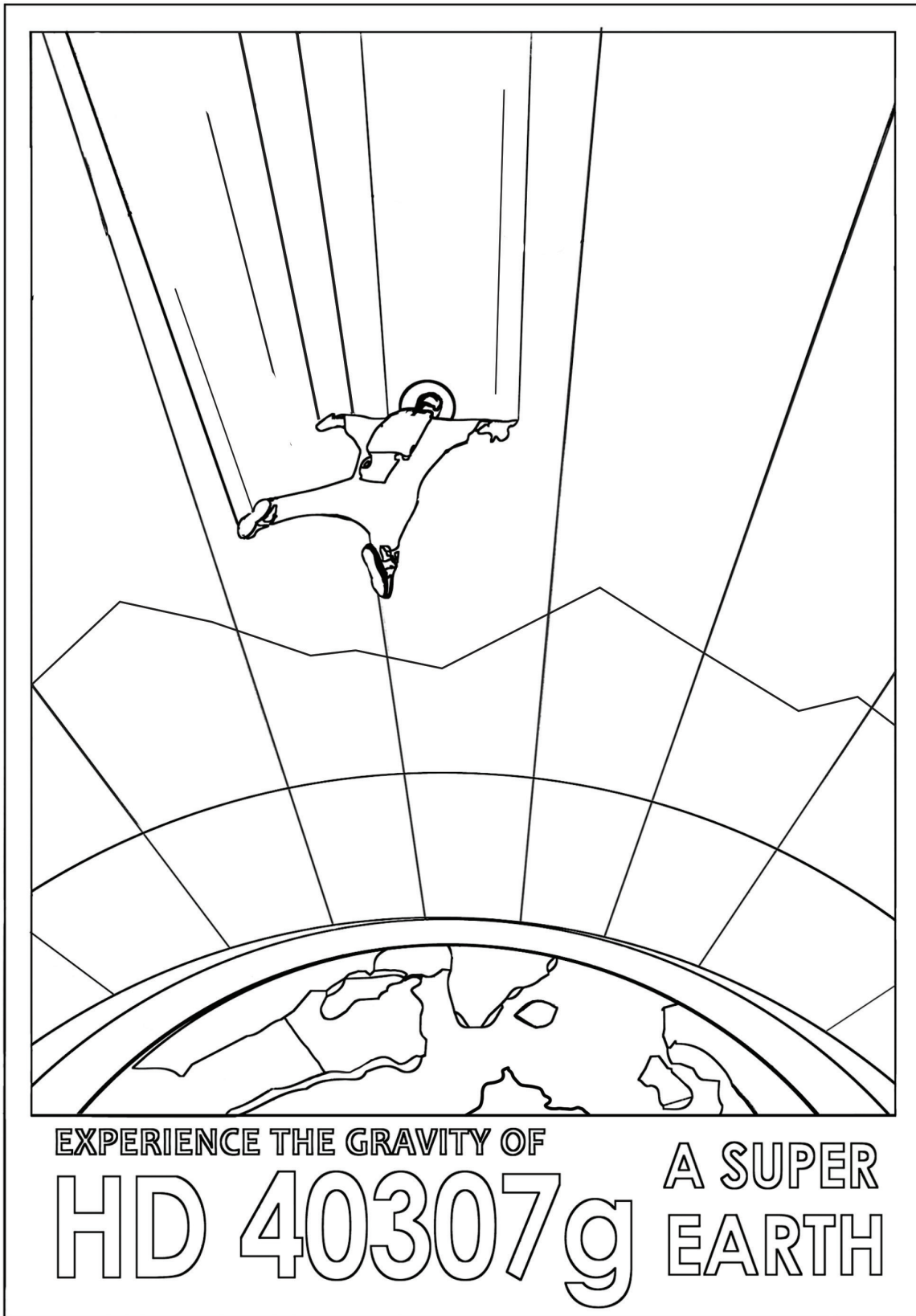
A global ocean of lava and sparkling silicate skies make this dreamy world the perfect extreme vacation! 55 Cancri e, or Janssen, orbits a star 41 light-years away from Earth. The molten surface is uninhabitable, but the views of a burning horizon, Janssen's sister planet, Galileo, and glittering skies will take your breath away.

**What colors can you imagine on the ultrahot world of 55 Cancri e?**

NASA's Exoplanet Exploration Program. Jet Propulsion Laboratory, Pasadena, CA.



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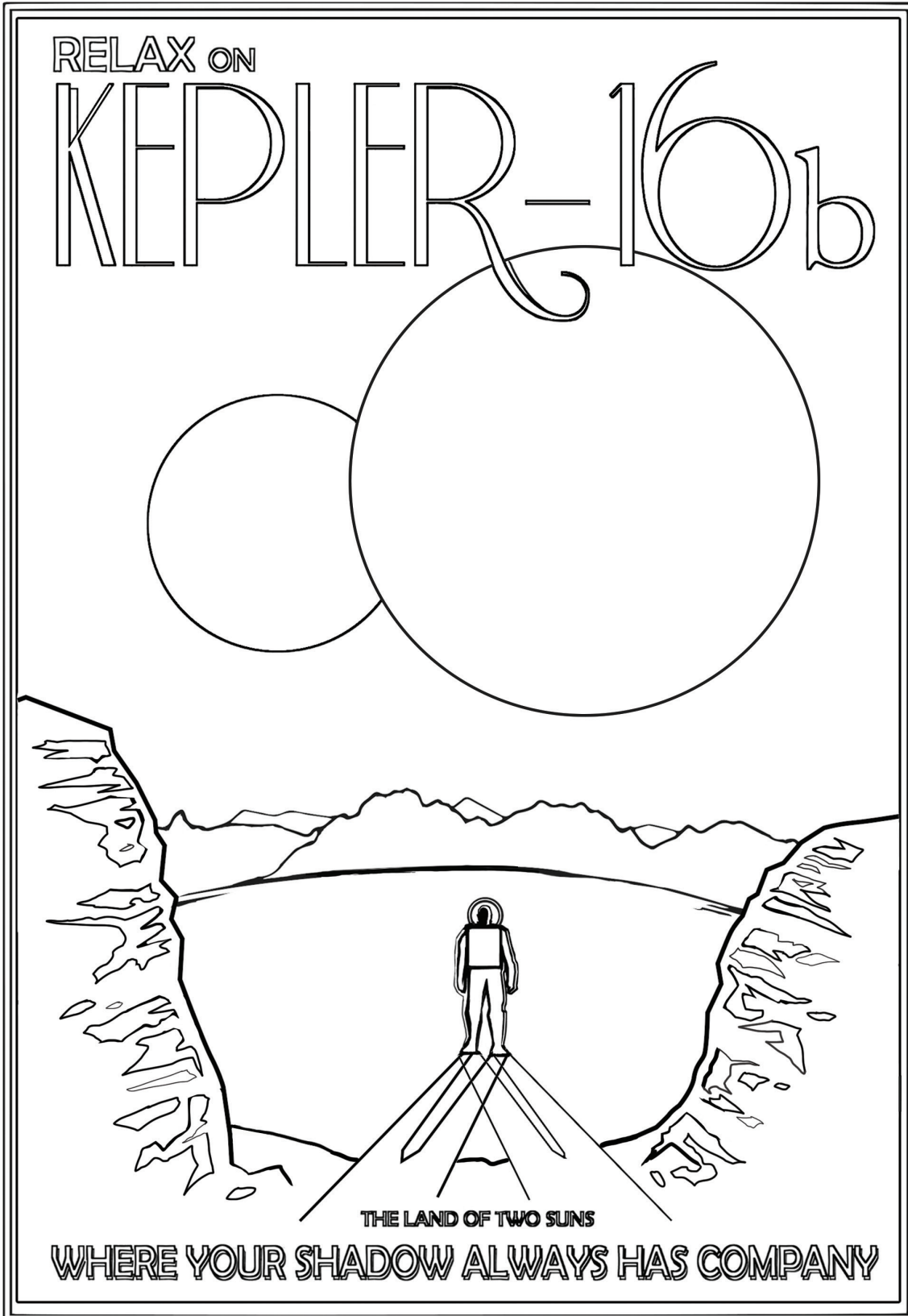


Twice as big (in volume) as Earth, HD 40307 g straddles the line between “Super-Earth” and “mini-Neptune,” and scientists aren’t sure if it has a rocky surface or one buried beneath thick layers of gas and ice. One thing is certain though: at eight times Earth’s mass, its gravitational pull is much, much stronger.

Color this world! Do you picture a rocky planet or one shrouded in gas and ice?



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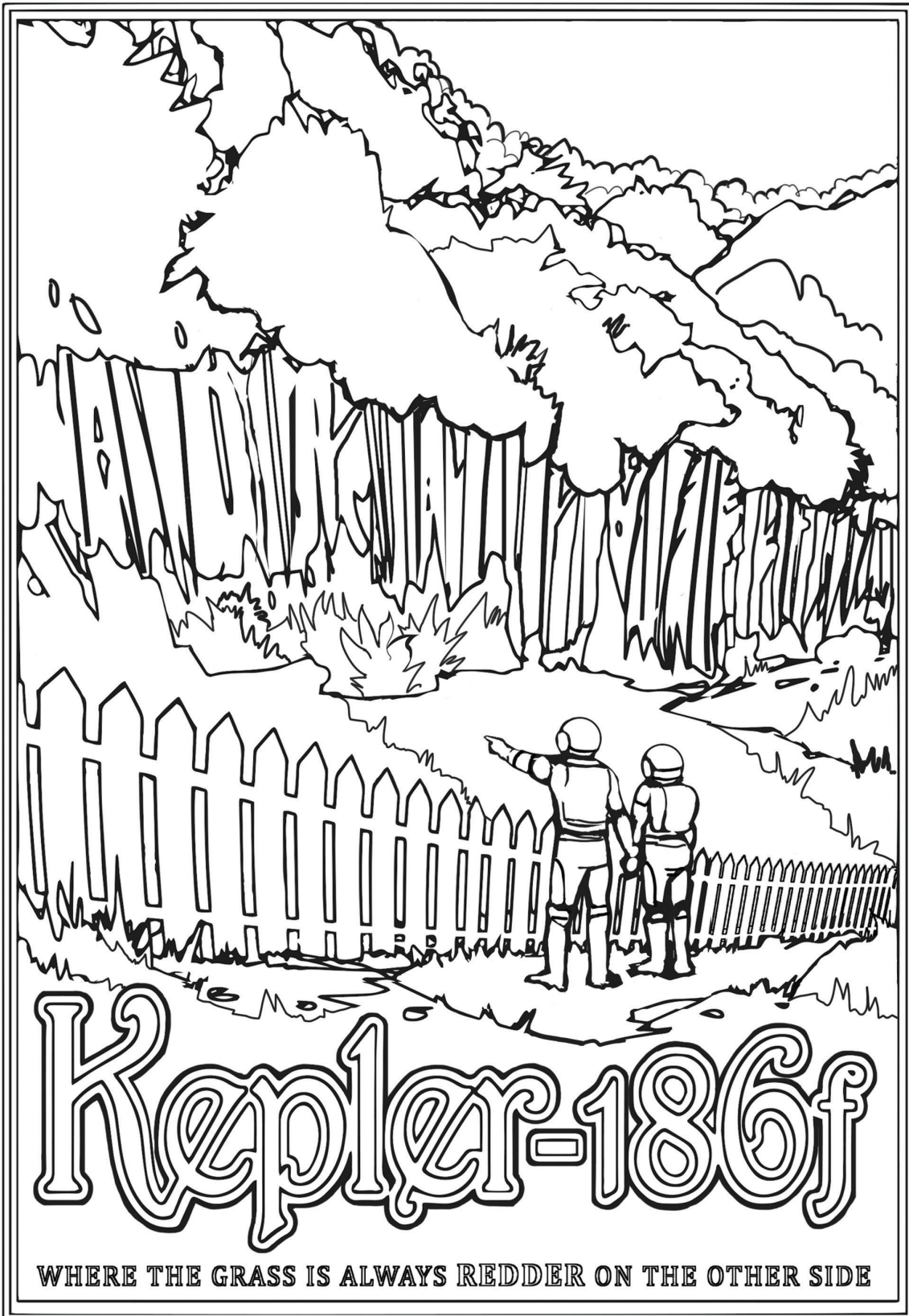


Like Luke Skywalker's planet "Tatooine" in Star Wars, Kepler-16b orbits a pair of red and yellow stars. Depicted here as a terrestrial planet, Kepler-16b might also be a gas giant like Saturn. Prospects for life on this unusual world aren't good, as it has a temperature similar to that of dry ice – well below freezing!

**If you visited Kepler-16b, what colors do you think you'd see?**



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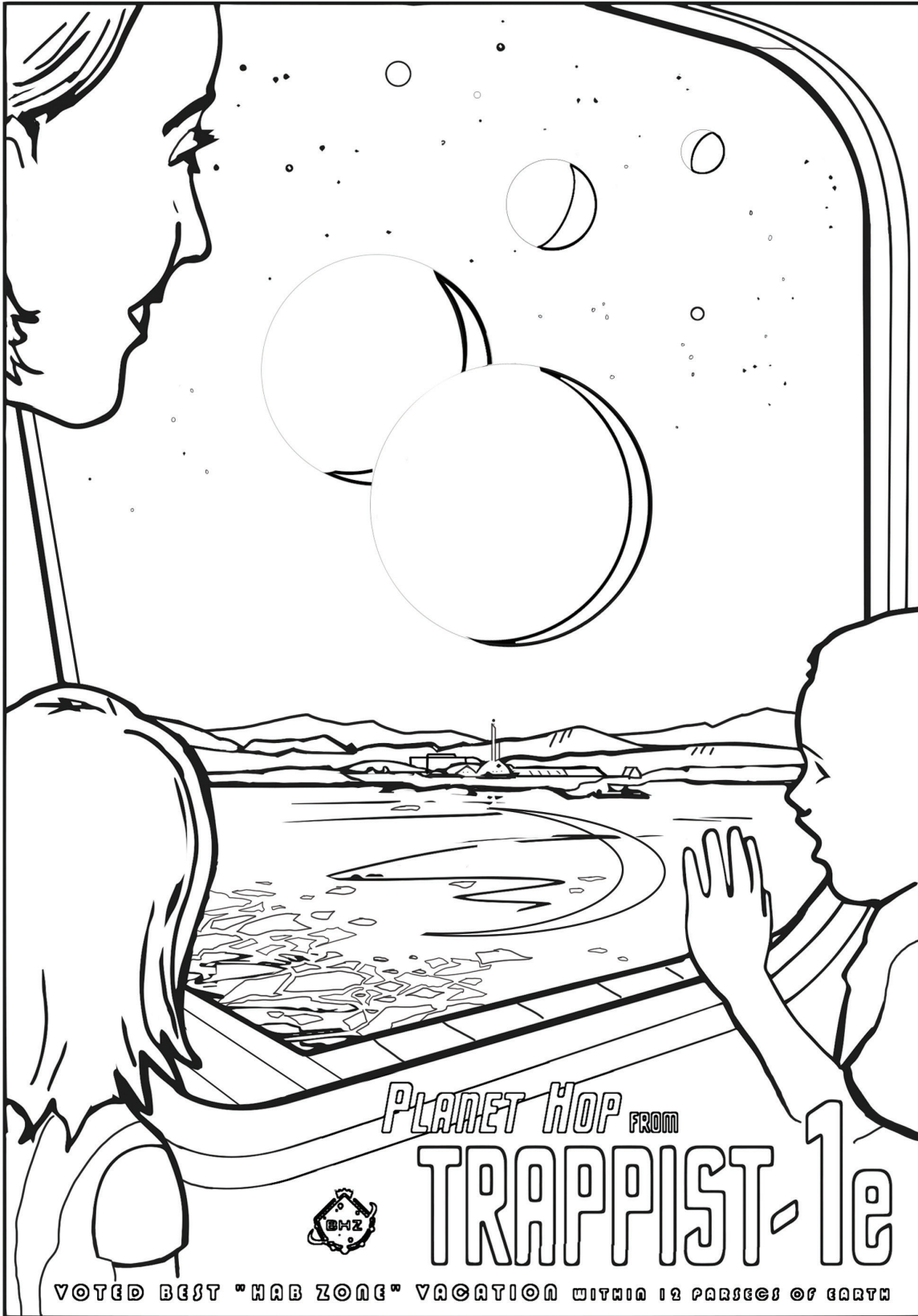
Kepler-186f is the first Earth-size planet discovered in the habitable zone of another star – where liquid water could exist on the surface. If plant life did exist on Kepler-186f, leaves might be shades of red to generate energy from its cool, red star – very different than Earth's palette of greens under our yellow Sun.

**What tones will you pick to color Kepler-186f?**

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About 40 light-years from Earth, seven planets orbit a small, dim, red sun. TRAPPIST-1e, the fourth planet from the star, is in the habitable zone, meaning liquid water could exist on its surface. The six other Earth-size planets are so close that they would loom like moons in its red-tinged sky.

**Imagine what the other planets would look like from TRAPPIST-1e!**