

## What is an exoplanet?

An exoplanet is any planet beyond our solar system.

**The Spitzer Space Telescope**, launched in 2003, on a mission to become NASA's premier infrared light observatory, but innovations during its mission improved it to be a critical tool in this discovery .

## Lava life, 55 Cancri e.

Skies sparkle above a never ending Ocean of lava ,only 41 light years away from earth .

The side of the planet facing its star has temperatures more than 2,000 kelvin is a solid planet made of carbon-rich material in the form of diamond as a result of the temperatures and pressures in the planet's interior

**Are you afraid of the dark? Welcome to TrEs-2b**, the planet of eternal night. this alien world is less reflective than coal. located 750 light years away from the Solar System. The planet has been identified as the darkest known exoplanet, reason of being a dark planet could be the presence in the atmosphere of light-absorbing chemicals.

**Osiris** is 159.9 light- years from earth. It Has yellow Sun-like star. The planet is a type of extrasolar planet known as a 'hot Jupiter'.

- the first planet detected through more than one method
- an extrasolar planet known to have an atmosphere

**Earth's Cousin' Kepler-186f** 490 light-years from Earth.is the first Earth-size planet discovered where liquid water could exist on the planet's surface, If plant life does exist on this planet its photosynthesis could have been influenced by the star's red-wavelength photons, making it is color palette red