

SPACE IMAGES

MASSIVE MOON

Ganymede, one of **Jupiter's 69 moons**, is orbiting the gas giant in this image. The **largest moon in the entire solar system**, Ganymede is only a little bit smaller than the planet **Mars**! This picture was taken by a camera on the **Hubble Space Telescope (HST)** in 2008.

Looking more like bizarre **rock formations** than **columns** of cold **dust** and **gas** in space, these iconic 'towers' are referred to as the **Pillars of Creation** because the gas is **creating new stars**. More than **7,000 light years** from Earth in the **Eagle Nebula**, the Pillars can be seen from our planet using powerful telescopes – but this amazingly detailed image was made by experts at **NASA** using pics taken by the HST.

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A volcanic eruption as seen from space

SPACE SHAPES

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The Hubble Space Telescope (HST) is a powerful telescope in space, orbiting 547km above the Earth. Its remarkable pictures are created by scientists who combine images taken by its cameras, then add colours based on information from the different kinds of radiation detected in space.

FLYING
FREE

This picture captures the historic moment in 1984 when NASA astronaut **Bruce McCandless II** performed the first ever **untethered spacewalk**. He travelled **90 metres out into space** from the space shuttle **Challenger** using a **jetpack**. Yikes!

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7

SPACE
SOMBRERO

The **Sombrero galaxy**, captured here by the HST, is named for its resemblance to the **Mexican hat** of the same name. It features a glowing, bulging **core of stars** enclosed in thick, dark lanes of **dust**.

5

6

RED SUPERGIANT

This star, called V838 Monocerotis, is in the Milky Way galaxy, 20,000 light-years from Earth. When astronomers first saw it explode in 2002 it was a million times brighter than our Sun. Its light echo, shown here in this incredible HST image, reveals dust patterns in its surrounding cloud structures.

8

ANCIENT EXPLOSION

The **Crab Nebula**, pictured here by the HST, was created by a **stellar supernova explosion** way back in **AD 1054**. The event was witnessed by early **Chinese** and **Japanese** astronomers!

A light-year is the distance light travels in one year – 9.5 trillion km

A nebula is a cloud of gas and dust in outer space where stars are either born or are dying.