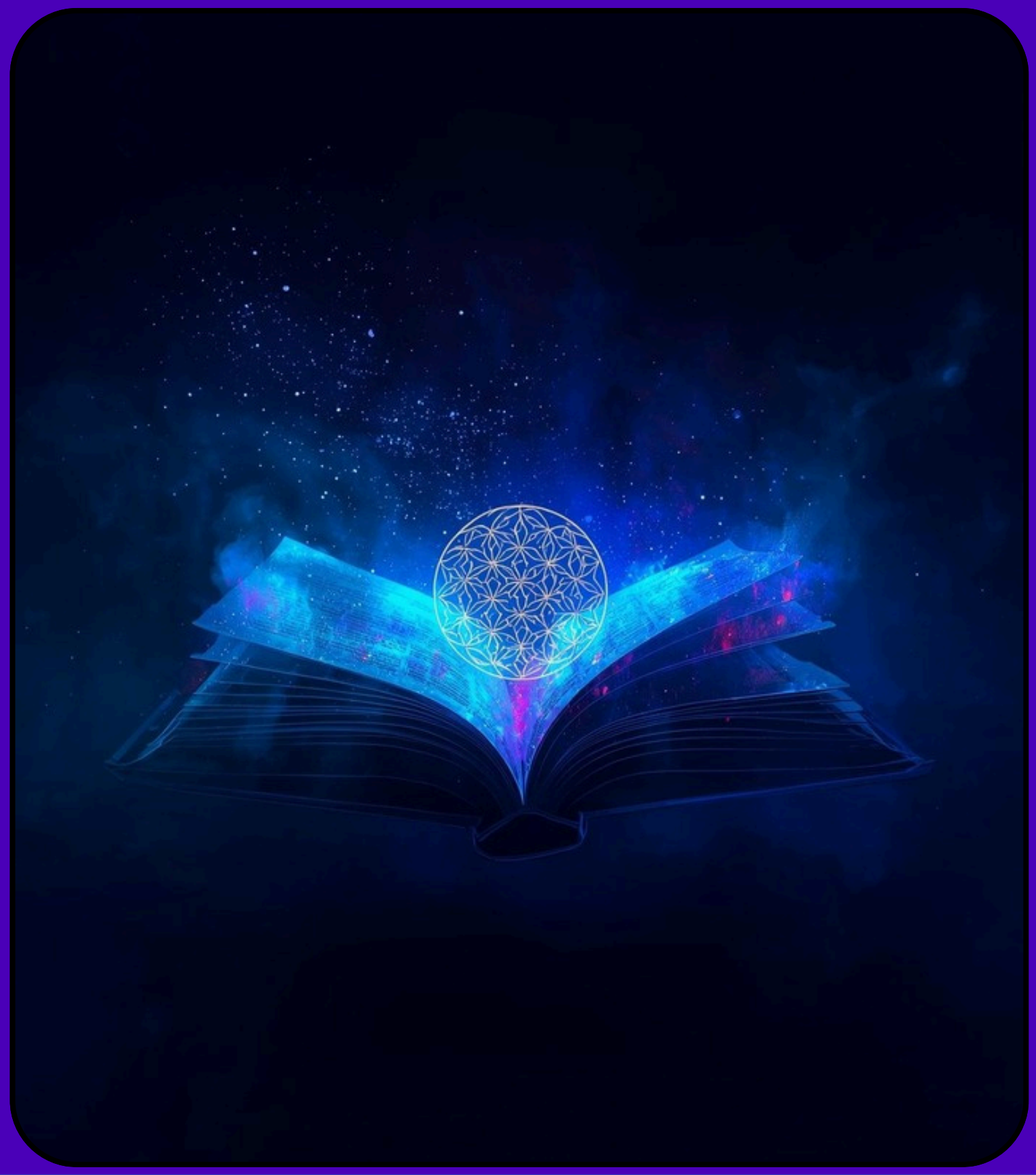
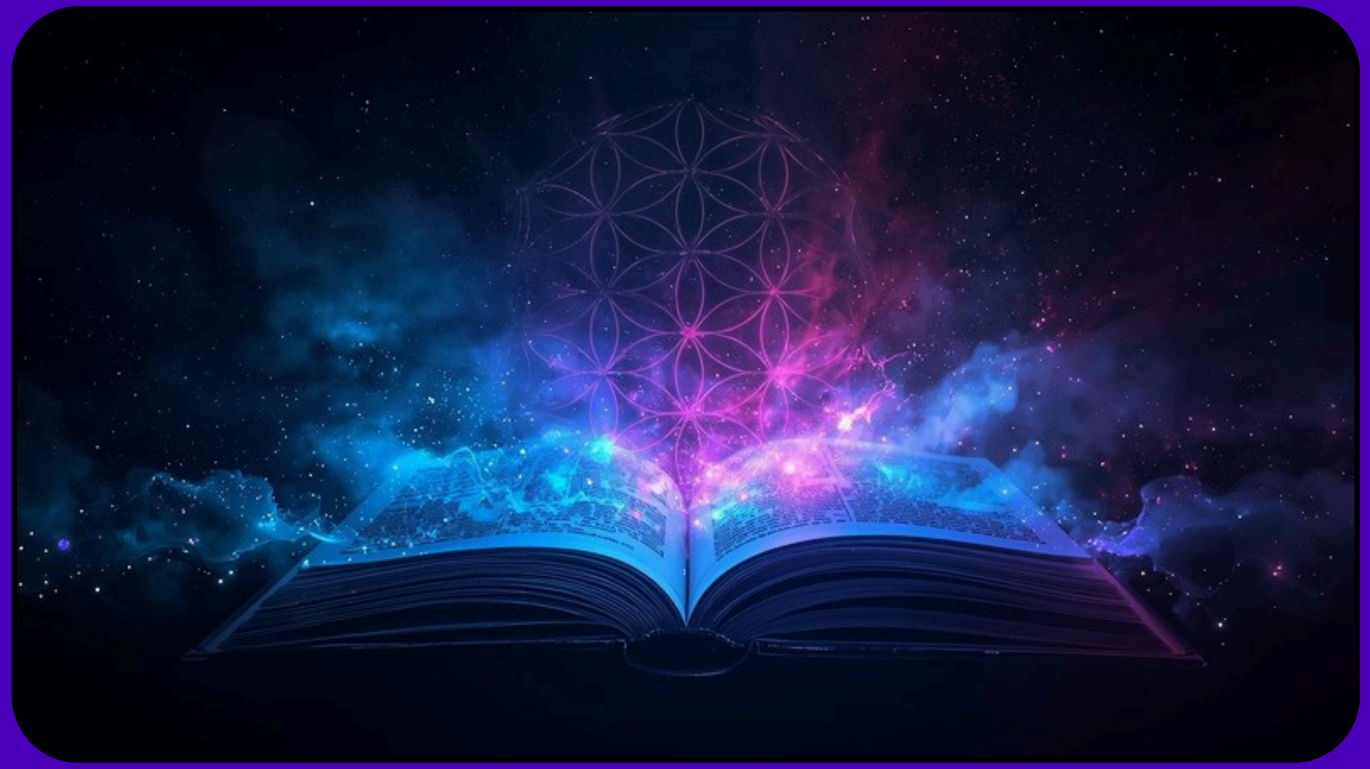

A JOURNEY INTO THE UNKNOWN
Celestial
Botany
Unveiling the Cosmic Rose
HAPY VALNTIIE'S DAY



Turning Pages to Cosmos



The First Revelation

Initial pages reveal **faint nebulae patterns**.

Nebula Flower Geometry

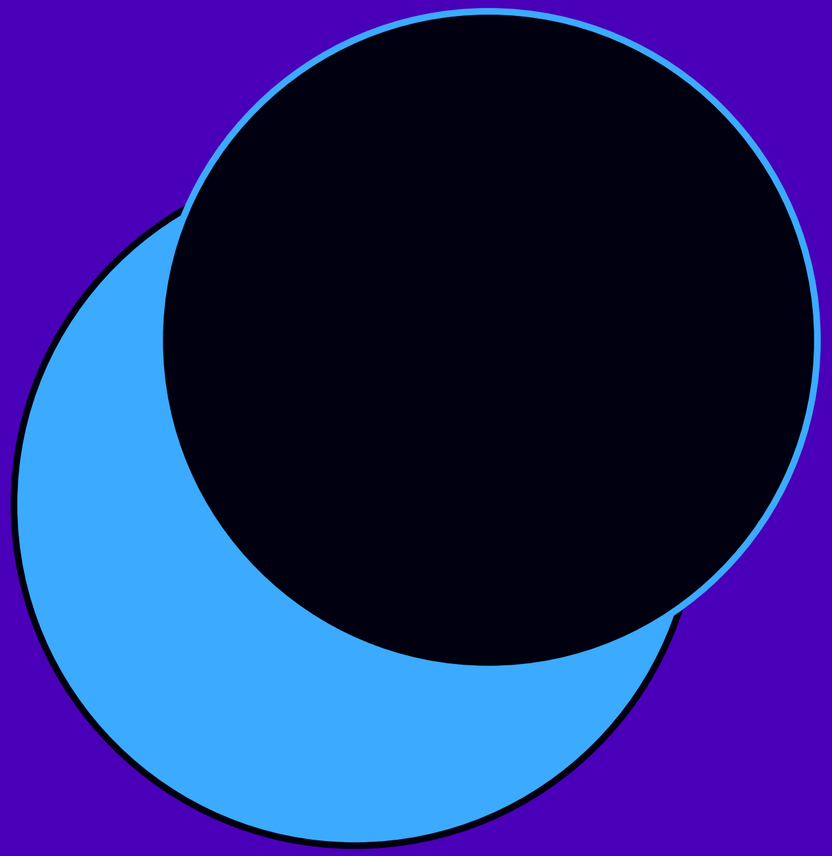
Nebulae often exhibit complex, flower-like geometries caused by gases expanding from dying stars, which are sculpted by radiation and stellar winds.

Ring Nebula (M57): Located in the Lyra constellation, this nebula is often compared to a "delicate flower" or camellia blossom. Its structure is a cylinder of glowing gas and dust seen nearly head-on, where the outer shell resembles delicate, concentric petals.

Rosette Nebula (NGC 2237): Often referred to as a "Cosmic Rose," this nebula spans approximately 130 light-years. Its geometry is characterized by a roughly circular, symmetrical, and dense outer ring of gas and dust (the petals) with a central cavity (the heart) created by young, hot stars in the cluster NGC 2244.

Iris Nebula (NGC 7023): Resembles an Iris flower and is located 1,300 light-years away in the Cepheus constellation.

Geometric Structure: These "flowers" are rarely truly planar. They are three-dimensional, ionized hydrogen (H-alpha) structures, often displaying rotational symmetry or fractal patterns formed by interstellar dust and ionized gases.



Bioluminescent Infusion: Colors of the Cosmos

Neon hues begin to **paint the celestial canvas**, illuminating the darkness with vibrant, ethereal beauty.

KEY BOTANICAL/COSMIC CONTRASTS
TIMEFRAME: WHILE A TERRESTRIAL ZINNIA BLOOMS IN WEEKS, A NEBULA "BLOOM" EXISTS OVER HUNDREDS OF THOUSANDS OF YEARS.
SCALE: THE ROSETTE NEBULA'S BLOOM IS 130 LIGHT-YEARS IN DIAMETER, COMPARED TO THE 10-15 CM DIAMETER OF A SPACE-GROWN ZINNIA.

Nebulae and Star Fields

As the **cosmic genesis** unfolds, star fields begin to materialize within delicate nascent petal shapes. Each petal, a vessel of light, captures the essence of the universe, transforming abstract concepts into stunning visual forms. The interplay of colors and cosmic textures creates an ethereal experience, inviting viewers to explore the **interconnectedness** of celestial beauty and botanical wonder. This captivating emergence signifies not just growth, but a harmonious union between the cosmos and nature.

Celestial Botany: First Flower Bloom in Space

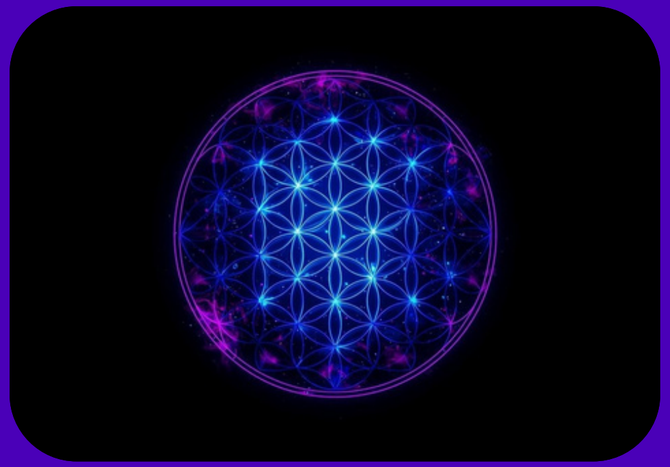
The First Flower: Zinnia (Zinnia hybrida) was the first flower to bloom in space.

Location and Date: It bloomed in the Veggie facility on the International Space Station (ISS), with photographs shared by astronaut Scott Kelly, confirming a major milestone in space agriculture.

Growth Environment: The zinnias were grown under red and blue LED lights in a, nutrient-supplied, low-cost chamber designed to study plant growth in microgravity.

Conditions: The plants faced challenges, including high humidity and mold, necessitating specific care from astronauts to achieve the bloom.

Flower of Life Blueprint



Cosmic Order

Sacred geometry defines form and structure.

Petal Integration

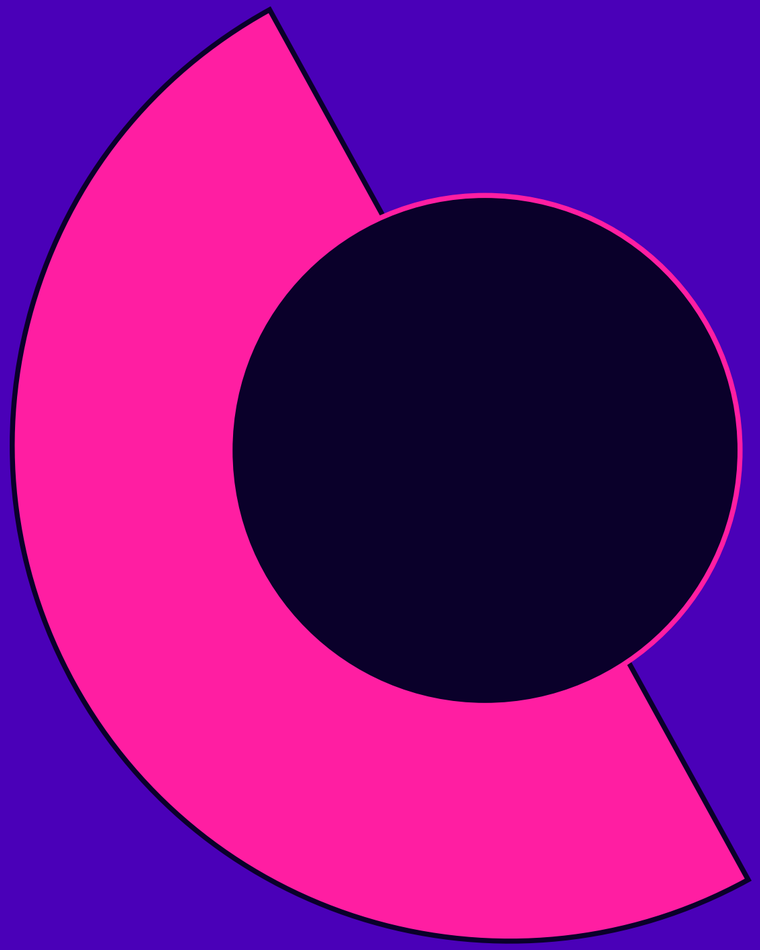
Nebulae become petals of radiant beauty.

Luminous Glow

Neon light enhances structure and elegance.


The Cosmic
Rose


“In the heart of every star lies a rose”
Celestial Botany: A Journey of Discovery



Thank You

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EMAIL
admin@spaceyme.com

PHONE
91-9940179426