

Csillagok az Emberi Kultúrában

Stars in Human Culture



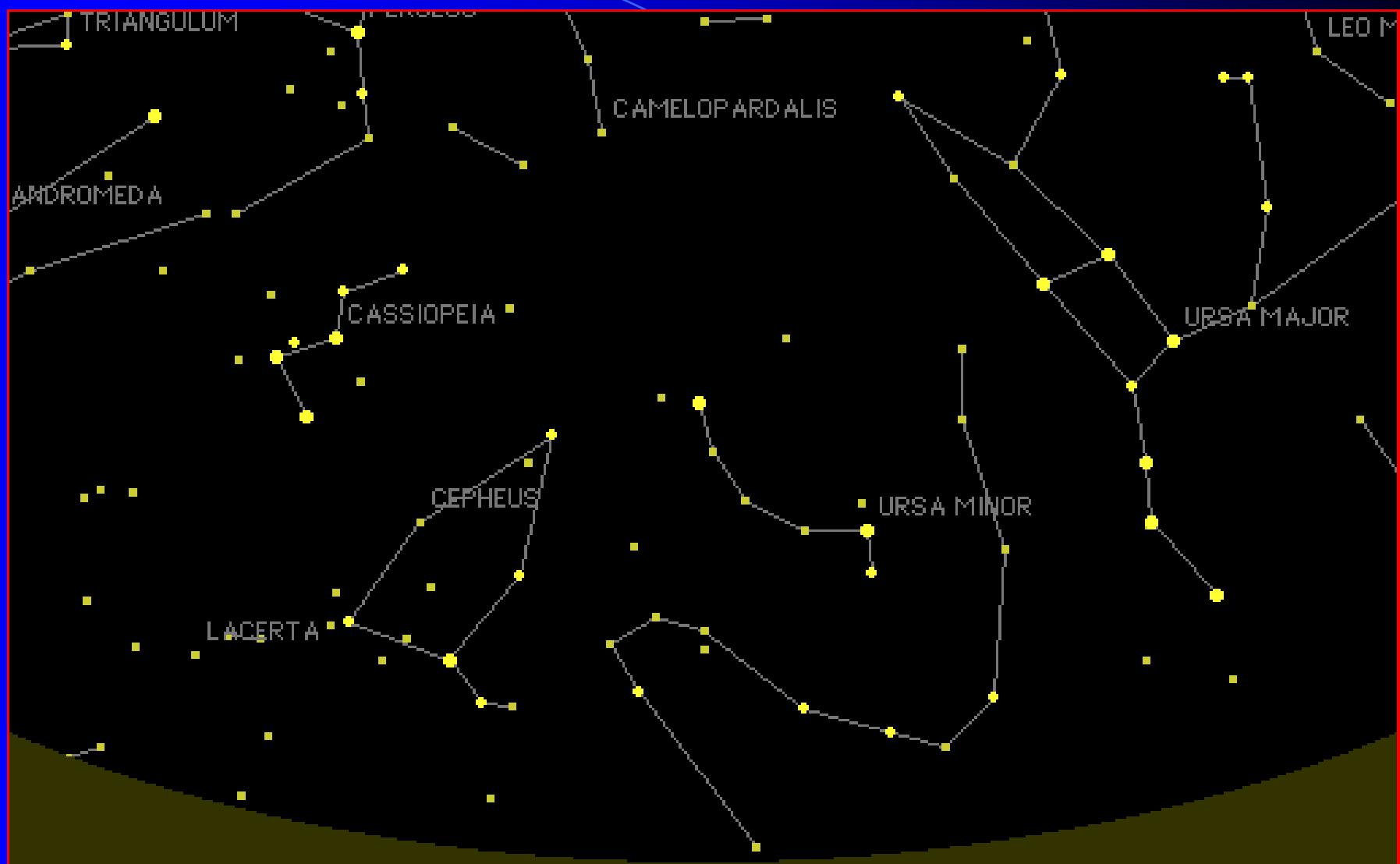
V. V. Raman: <http://www.rit.edu/~vvrsp/>

Budapest, Magyarország, 2009

Tat Tvam Asi: Thou Art That



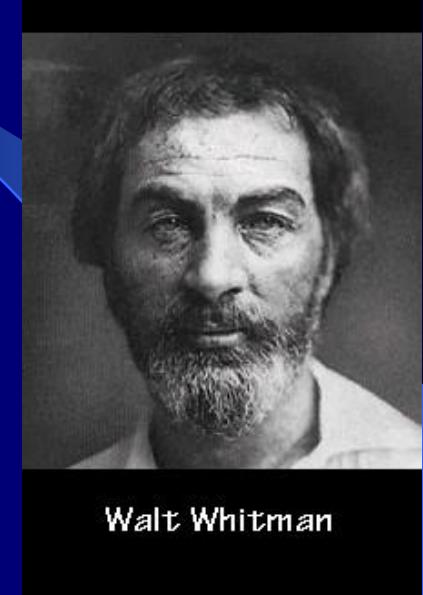
तत् त्वम् असी



égen túli asztronómia

Astronomy Beyond the Skies

WHEN I heard the learn'd astronomer;
When the proofs, the figures, were ranged in
columns before me; When I was shown the
charts and the diagrams, to add, divide, and
measure them; When I, sitting, heard the
astronomer, where he lectured with much
applause in the lecture-room, How soon, unaccountable, I
became tired and sick; Till rising and gliding out, I
wander'd off by myself, In the mystical moist night-air,
And from time to time, Look'd up in perfect silence at the stars.



Walt Whitman

A Csillagok Egyetemessge

Universality of Stars

Since time immemorial
people have gazed at stars.
Stars connect us all.



ókori Egyiptom: Szíriusz és Ízisz

Sirius was ISIS for Egyptians

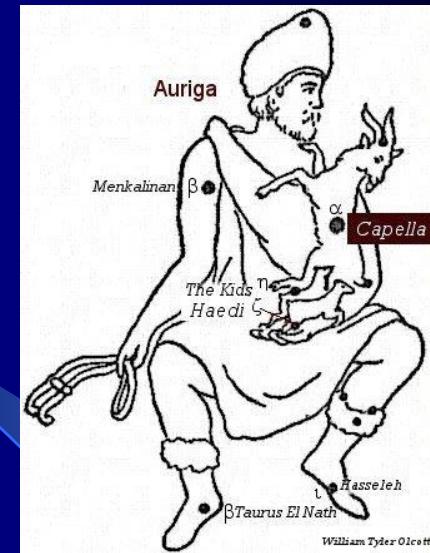
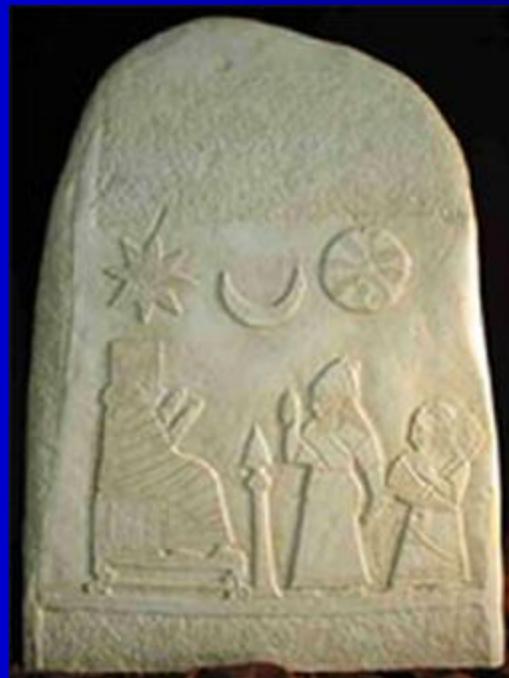
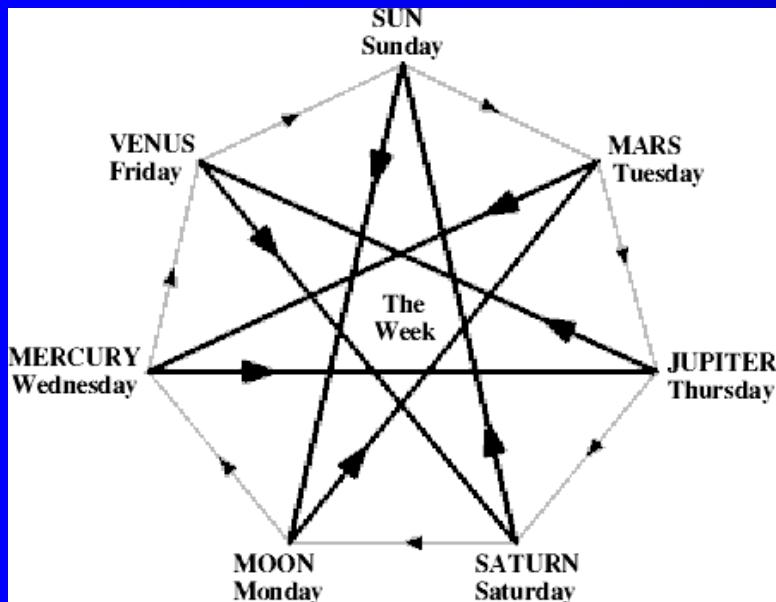
- Sirius was worshipped by Egyptians more than 5000 years ago. Its hieroglyphic symbol was a dog. Its heliacal rising began the year and led to the year of 365 days. The star was a symbol of Isis.



Babilónia & Hetes

Babylonians & Seven

Capella was Marduk who killed Tiamet. Babylonians recognized seven planets: initiated the week & astrology.



Ábrahám, Csillagok s Monoteizmus

Abraham, Stars, & Monotheism

Abraham looked at the skies and exclaimed, "I'll worship the stars."

Only some constellations remained.

He said, "I'll worship these." They too disappeared. Then there was the moon, then the sun, but none of these seemed permanent. Abraham said, "I will worship God, for He abides for ever."



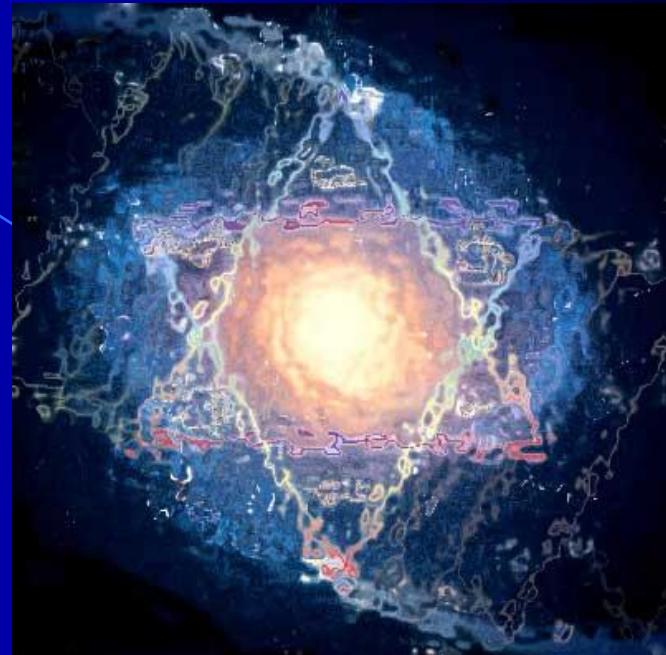
Dávid csillaga

Star of David

God summoned the sun, whose
light shone forth, then gave to the
moon its cyclical glow.

The stars and planets,
all bodies of the heavens
acclaim God with praise;
celestial creatures give
glory and greatness . . .

The Star of David was Magen
David : the Shield of David
against evil spirits. One triangle
stands for God, world, and man;
the other for creation, revelation,
and redemption.



A Csillagok Mint Anghyalok

Stars as Angels

In some ancient belief systems stars were the hosts of God, and were angels.



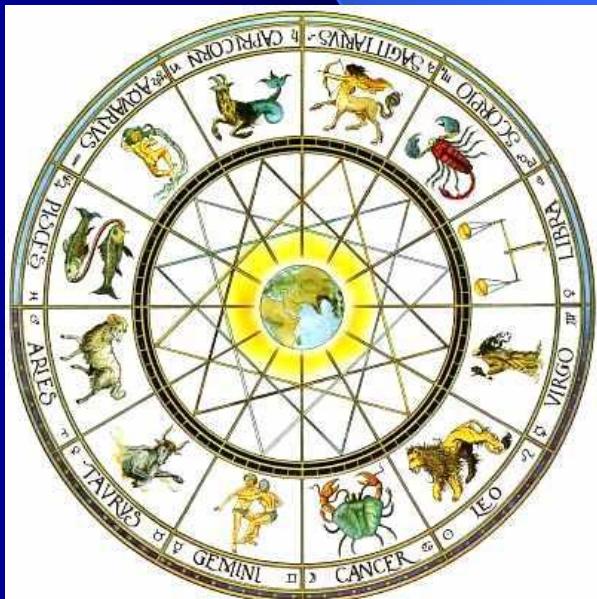
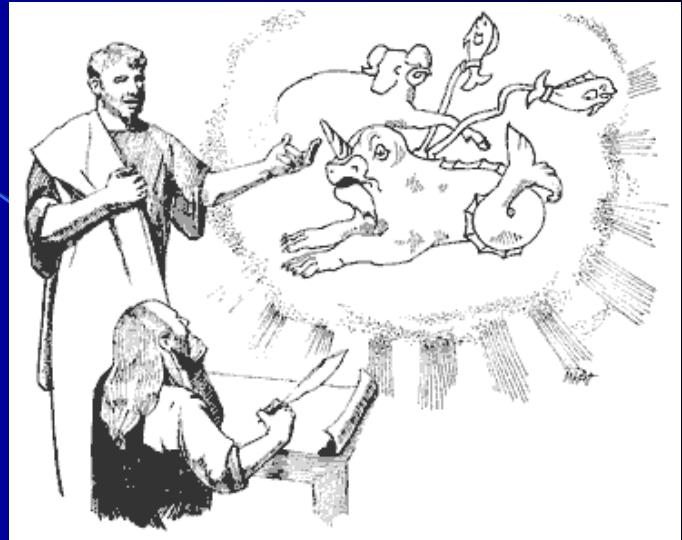
This world has angels all too few,
And heaven is overflowing.



állatövi jegyek

The Zodiac:

- Flavius Josephus believed that twelve stones on the breastplate of the high priest referred to the constellations on the Via Solis. Aristotle had called this *Κυκλοσ τον Ζοδιον*. Some claim the Biblical Enoch made the zodiacal divisions.

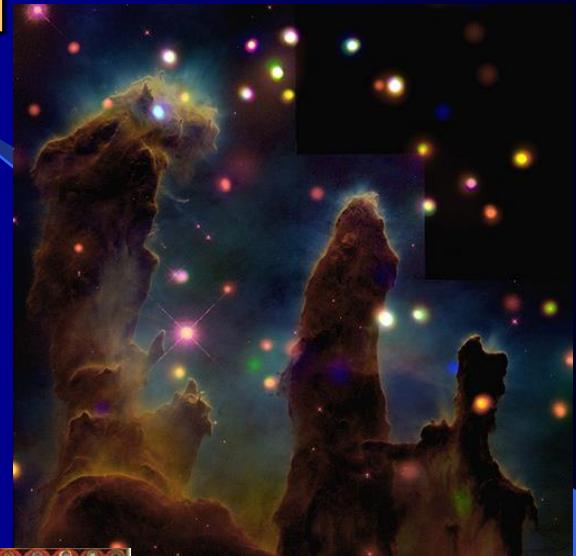


A Hinduizmus Védái Vedas of Hinduism

Hymn of the Night:

Stars are the eyes of the
night.

Night, Ratri, is the sister
of Dawn, Usha. Usha
robes herself in
crimson and gold;
Ratri adorns her dark
raiment with
gleaming stars.

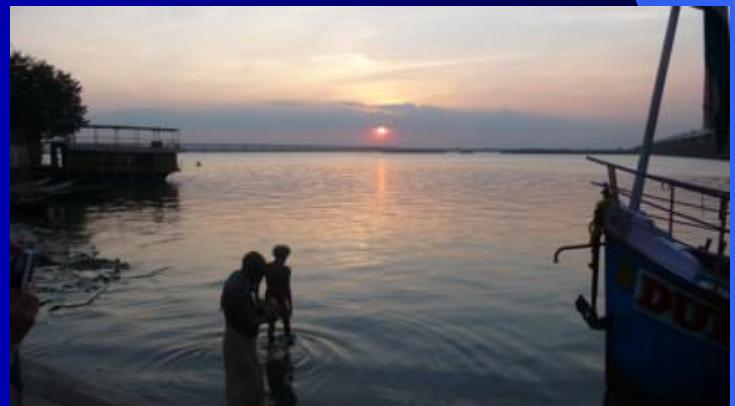
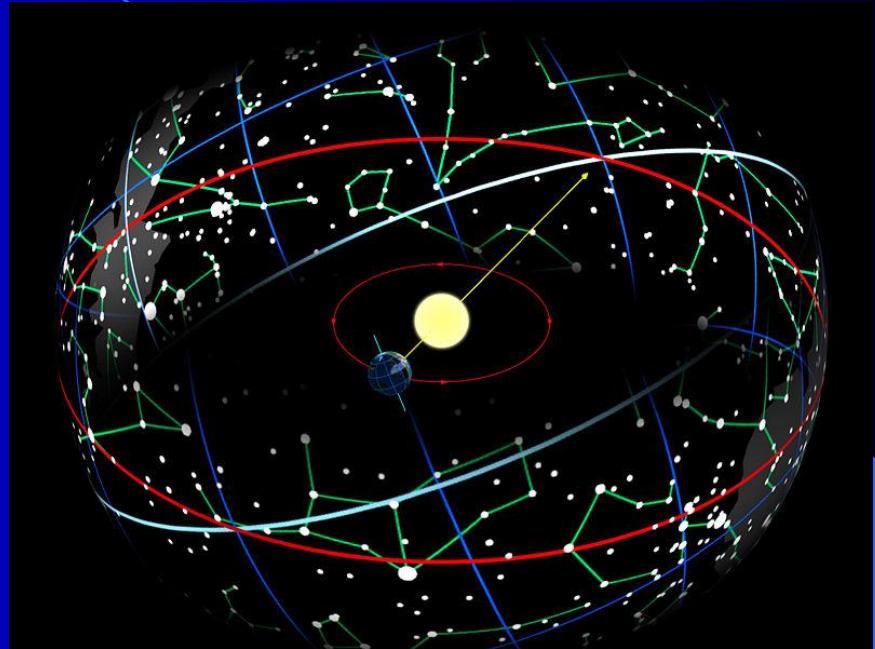


Purusha Suktam

The Cosmic Person
has a Thousand
Eyes (the stars in
the sky):
Sahasraakasha.

The Divine has the
Form of Stars:
NakshatraaNi roopam

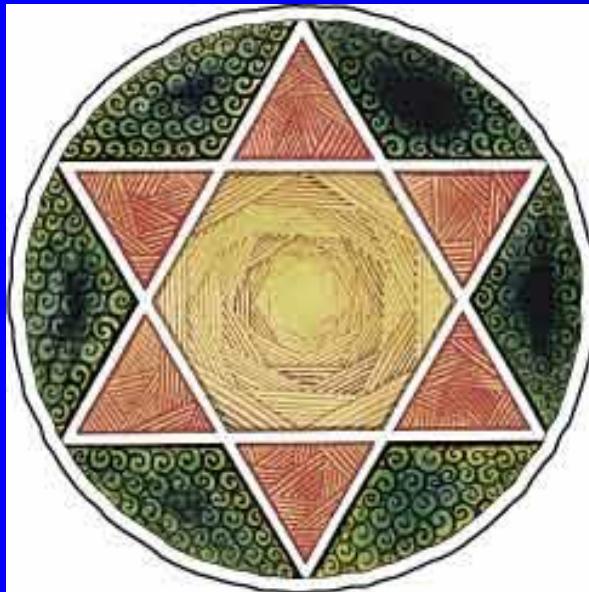
ॐ सहस्रशीर्षा पुरुषः सहस्राक्षः सहस्रपात् ।
स भूर्मि विश्वतो वृत्वाऽत्यतिष्ठदशाङ्गुलम् ॥



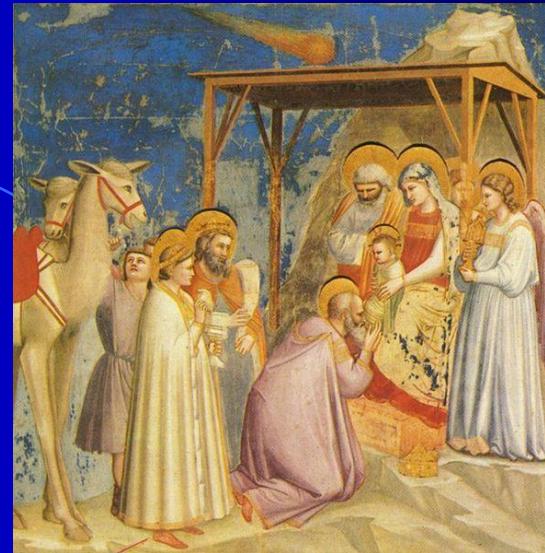
A hinduizmus fordított csillagai

Inverted Stars in Hinduism

They represent Purusha
(the Perceiving
Principle) and Prakriti
(the Perceived).



Kereszténység Christianity



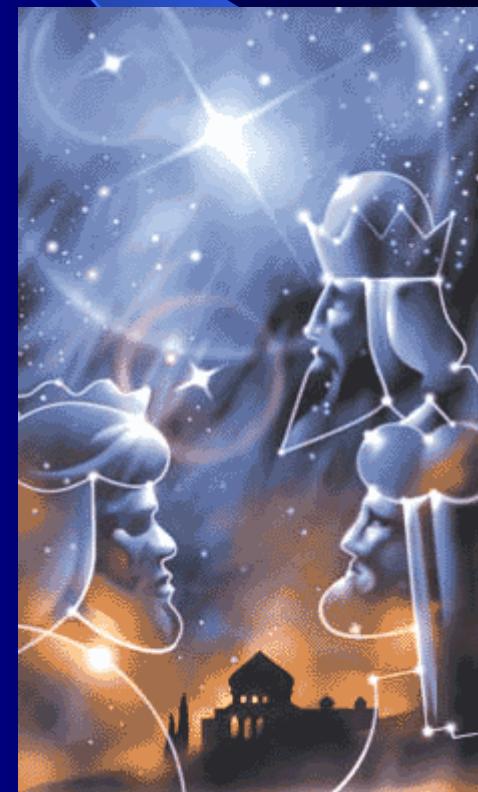
**Oh, beautiful Star of
Bethlehem Shining afar thru
shadows dim, Giving a light
for those who long have gone..**

In the New Testament (Matthew) we read (2:9):
...the star, which they saw in the east, went
before them, till it came and stood over where
the young child was."

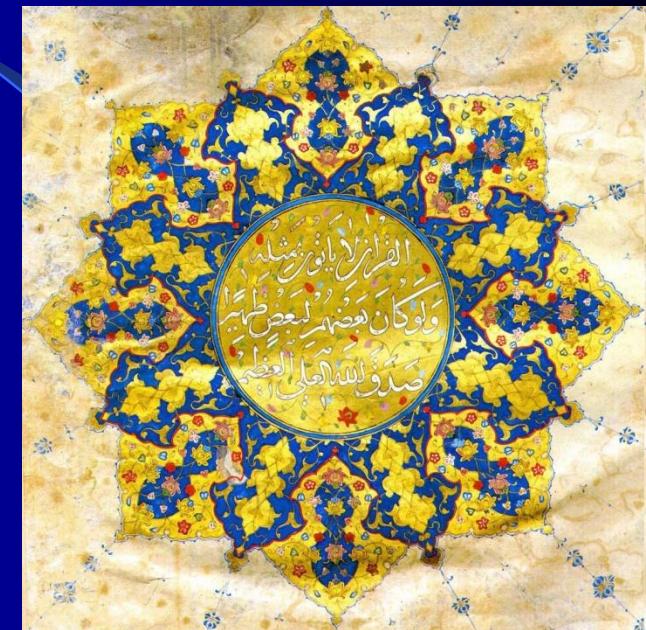
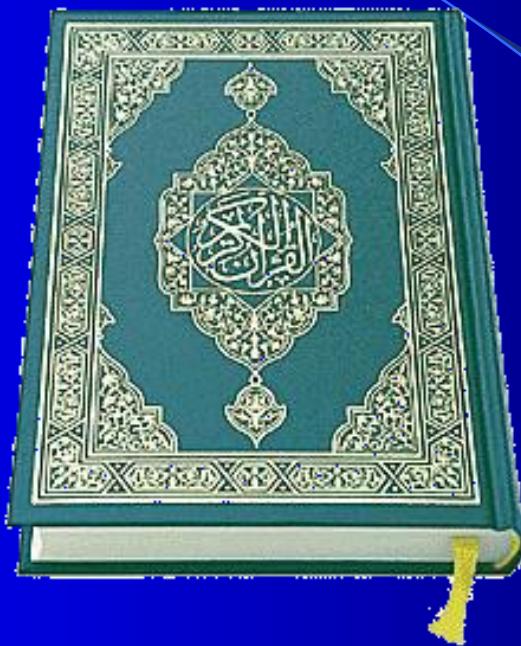
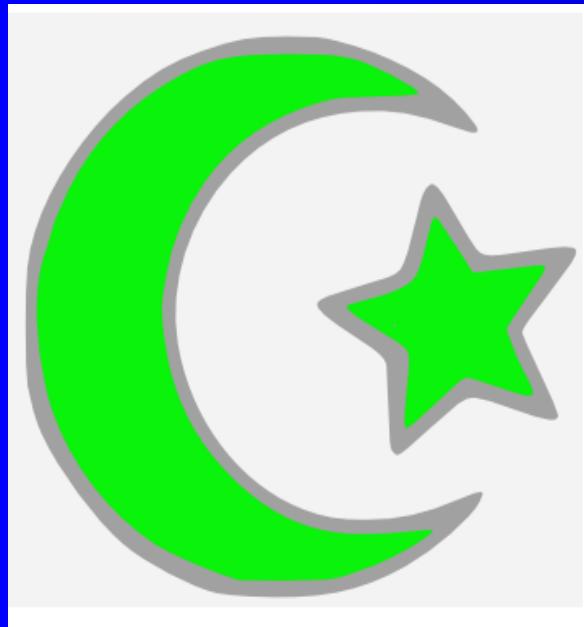
Krími háború

Crimean War

Provoked by the French wanting the key to the Church of the Nativity in the old city of Jerusalem, and the right to place a silver star of Bethlehem on Christ's birthplace.



A Korán: In the Holy Qur'an



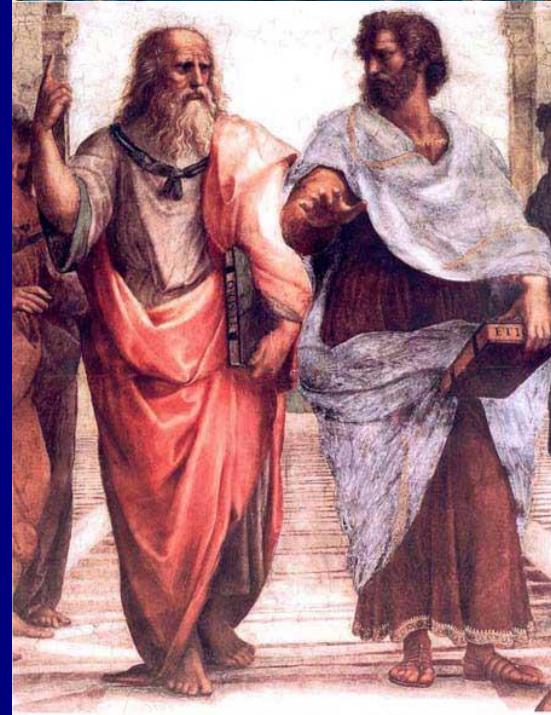
The word '*star*' appears 13 times in the *Quran* (najm, plural nujum). Stars are among the Signs of God. The Crescent and the Star stand for Peace and Life.

Ezoterikus dimenziók: az asztrálsík:

Esoteric Dimensions

Plato and Aristotle: Astral Plane

stars are composed of a fifth element: ethereal matter for the human psyche.



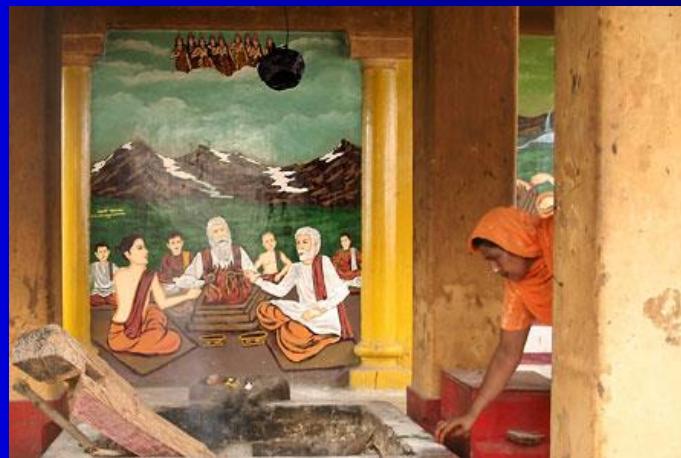
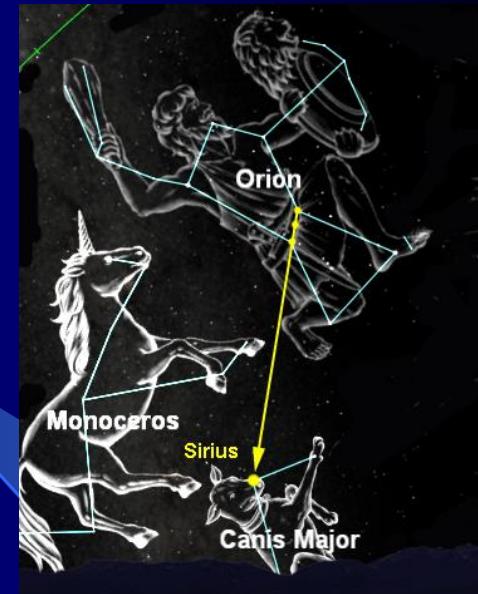
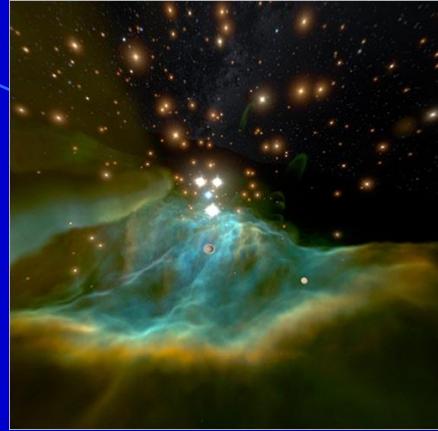
Detail from facing page: Plato the teacher, in the likeness of Leonardo da Vinci and holding his *Timaeus*, strides alongside Aristotle, his greatest pupil, on our right and holding his great work: *The Ethics*.

Mitológia Mythology

Stars are humans
stellarized.

Eskimos, Greeks,
Hindus, etc.: stars
are our ancestors.

Stars are human-
dust. Modern
science: Humans
are star-dust.



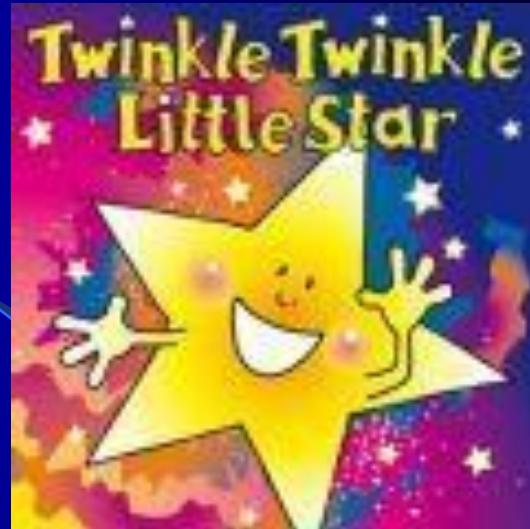
Közkedvelt Dalok Popular Songs

Jane Taylor's simple line
put in a nutshell the
feelings of astrophysicists.

A Hungarian song:

Volt egy lány, aki csillagok
közt álmodozva járt...

There was a girl who
walked through the stars
dreaming...



Asztronómia a Zenében

Astronomy in Music

**AU CLAIR
DE LA LUNE**

s Collection Compline 6

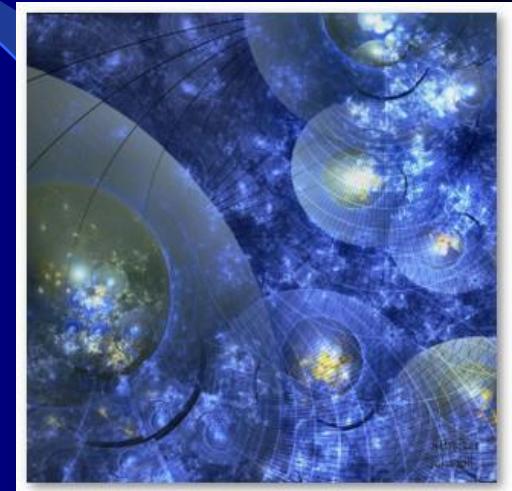
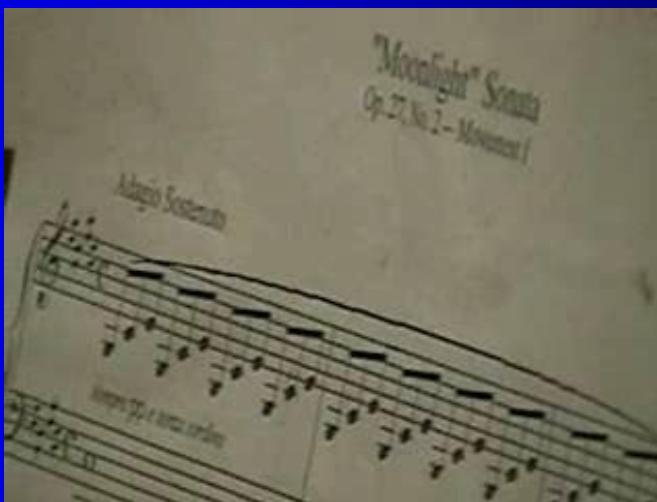
TRADITIONNEL

Arrangé par
Patrice BOURGÈS-ROUAUT

Doux...

De major

$=100$



Debussy

Beethoven

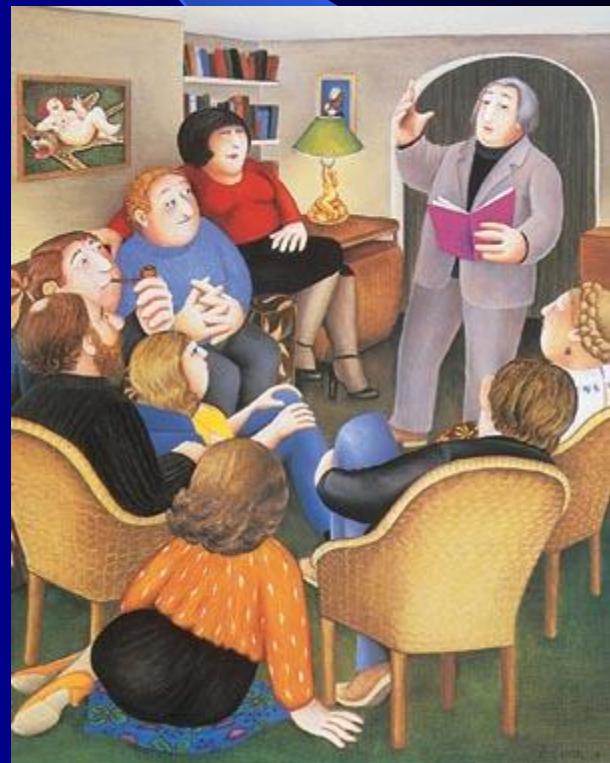
Music of the spheres
Pythagoras

Költemények

Poetry

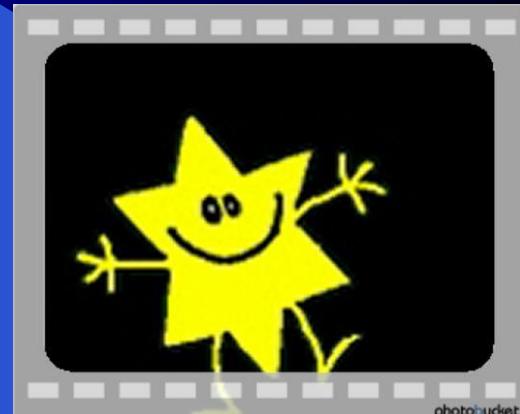
Poets talk of the sun, the moon, and the stars, and used them as similes or metaphors.

A Hungarian folk poem: "Stars, stars, shine brightly, Show the way to a poor lad. To a poor lad show the way Because he cannot find another girl like his lover".



Versek Poems

Flowers of the sky! Ye too to age must yield. The stars are mansions built by Nature's hand. Heaven's ebon vault Studded with stars unutterably bright. God be thanked for the Milky Way that runs across the sky, That's the path my feet would take whenever I have to die. A wise man, watching the stars pass across the sky, said: In the upper air the fireflies move more slowly.

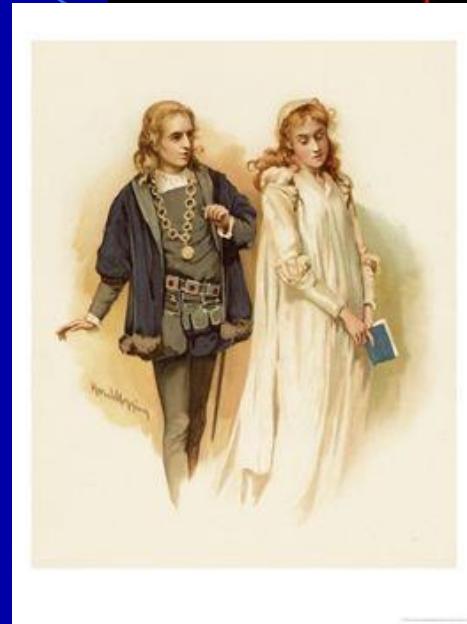


Shakespeare

Hamlet : “I am as constant
as the northern star.

Romeo & Juliet: Star-
crossed lovers.

Caesar: “Bright star, would I
were steadfast as thou art!”



Plejádok: The Pleiades

This bronze disk, 1600 BC, from Nebra, Germany, is said to be one of the oldest known representations of the cosmos.

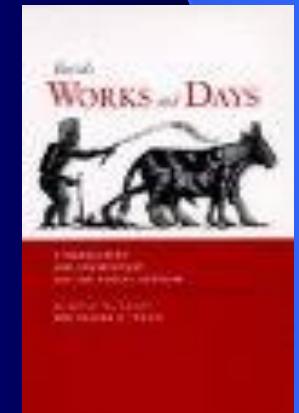
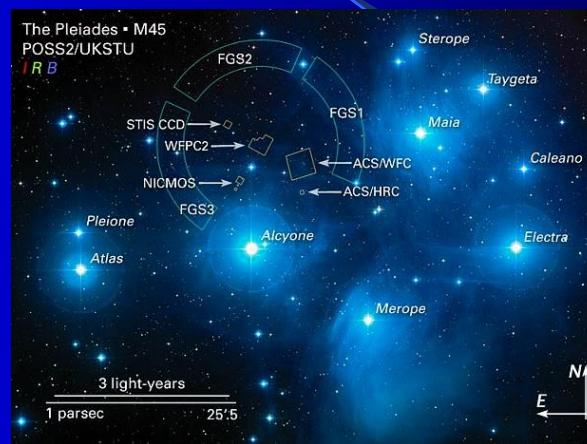
The Pleiades are top right.



Görög Plejádok: a hét növér

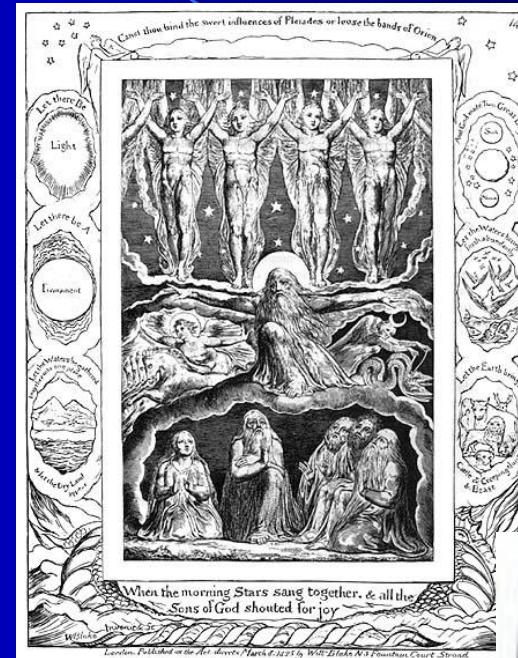
Greek Pleiades: Seven Sisters

The Pleiades were the seven sisters, **Maia, Electra, Alcyone, Taygete, Asterope, Celaeno and Merope**, daughters of Atlas and Pleione



Jób Könyve: Book of Job

- “Cans’t thou bind the sweet influences of Pleiades or lose the bands of Orion?”



Hindu Krittika Nakshatra

The Pleiades is the God Shanmugan with six faces. Or the wives of the Seven Wise Men.



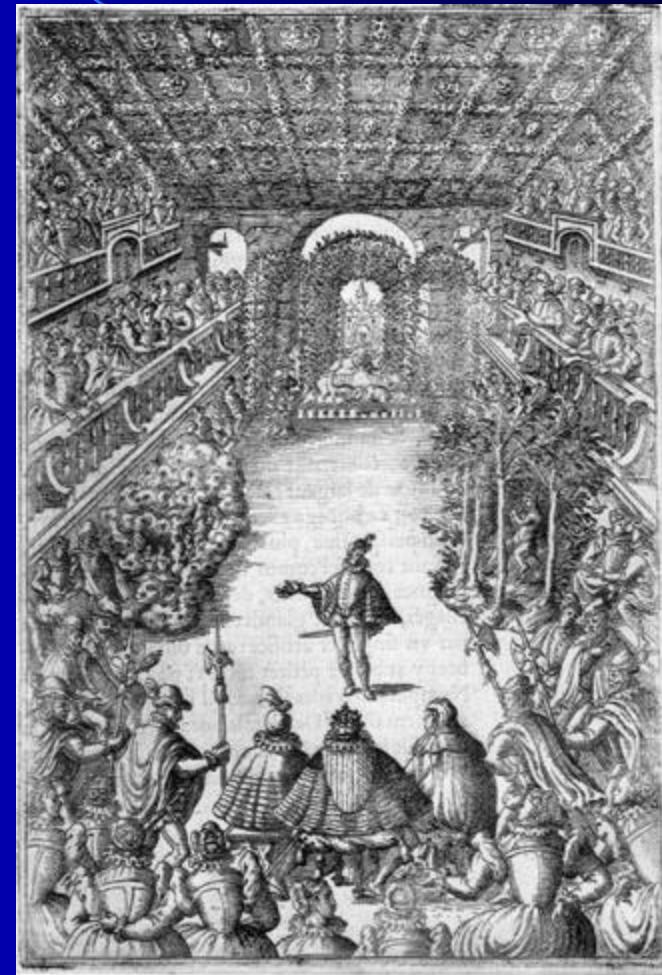
Japán Japanese: Subaru

Pleiades is known as
Subaru in Japanese.



A francia Les Pleiades French Les Pleiades

Sixteenth Century group of poets, Pierre Ronsard being the most famous, called themselves Les Pleiades, recalling an ancient Greek group.



Szókincs Vocabulary

Asterisk, stars in fireworks, spot on forehead, star for honor, movie star.

*

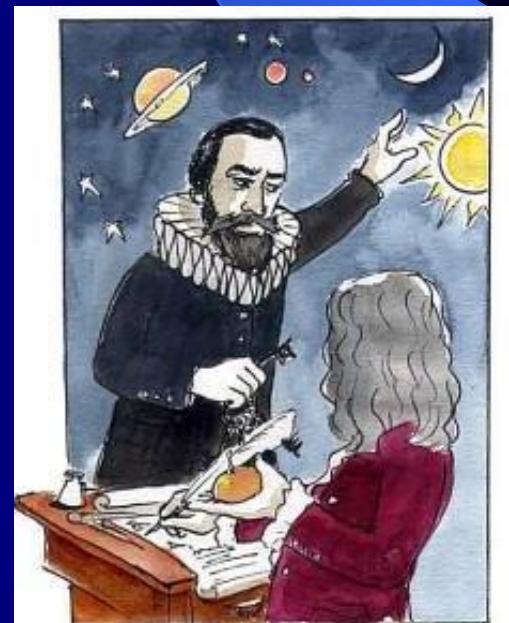


Prefixes: Star-fish, star-stone, star-fruit, star-jelly, star-witness, star-throat (a humminbird), star of Jerusalem (a flower/goat-beard)



Asztrológia Astrology

One of the most powerful elements in human culture, giving words like: In conjunction with, disaster, zenith, jovial, martial, venereal.



Politika: Országok Zászlajai

Political: Flags of Countries

Many countries have stars on their flags.



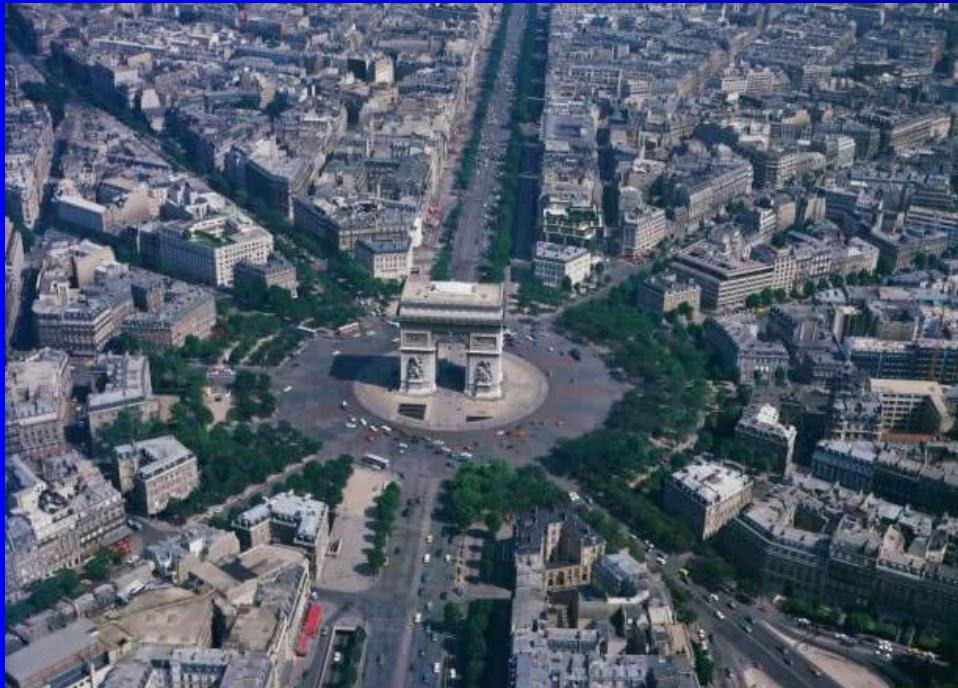
Dánia Denmark

- King Valdemar saw a white cross in a red sky, after a victory: This gave Danish flag.



Jós Rossz

For Good and Bad



Famous Place d'Etoile



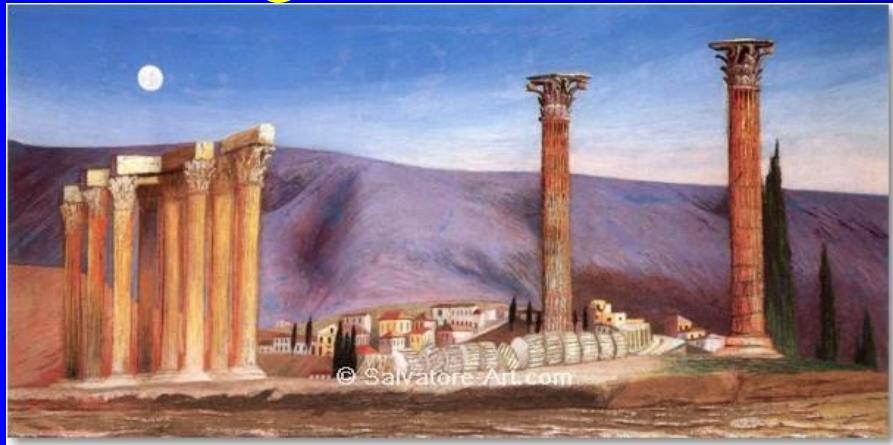
Notorious Star Chamber

Asztronómia a Művészletekben

Astronomy in Art



Van Gogh - Starrenacht

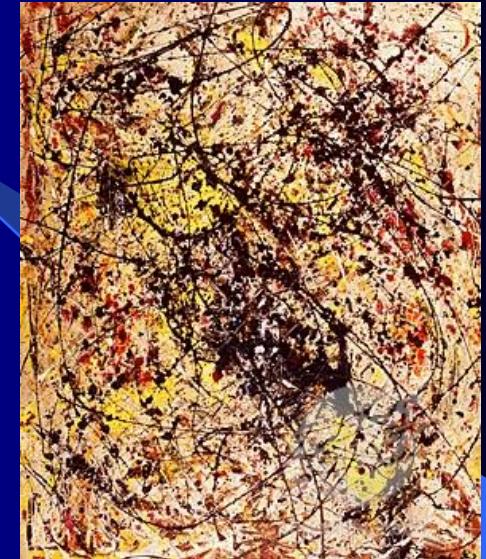


Pollack - Big Dipper

Tivadar Csontváry

Kosztka

Ruins of the Jupiter
Temple in Athens



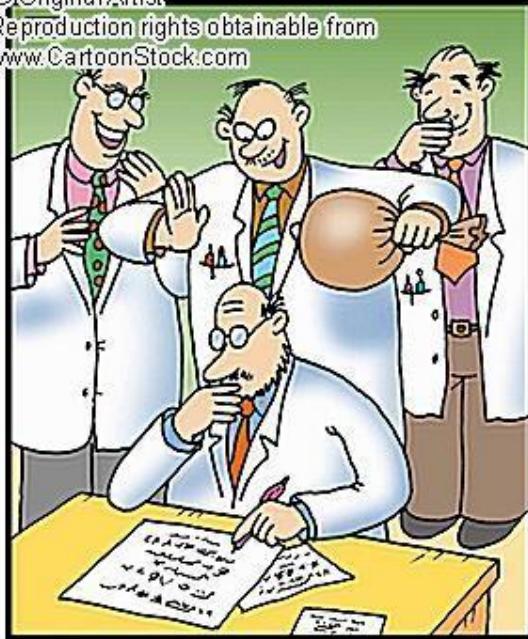
Hangulat Humor: Other names for the Big Bang

"That Point In Time When the Volume of the Universe Decreases to Approximately Zero, and Density Approaches Infinity, and the Combination of the Strong Nuclear Force and Electromagnetic Attraction Between Red and Blue Quarks ...

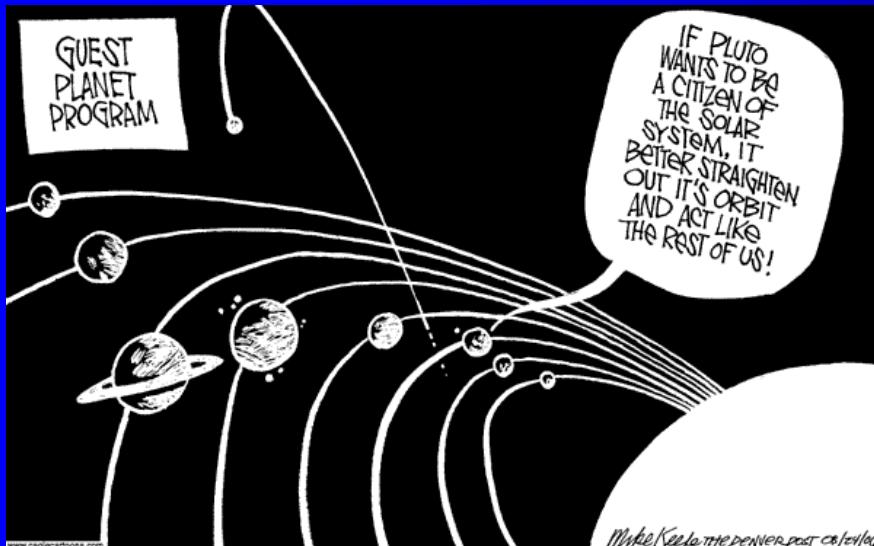
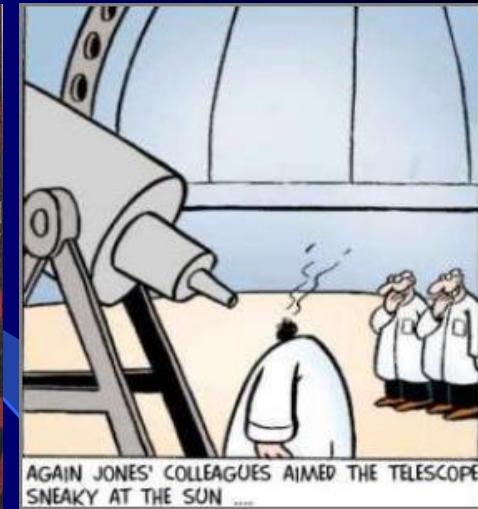
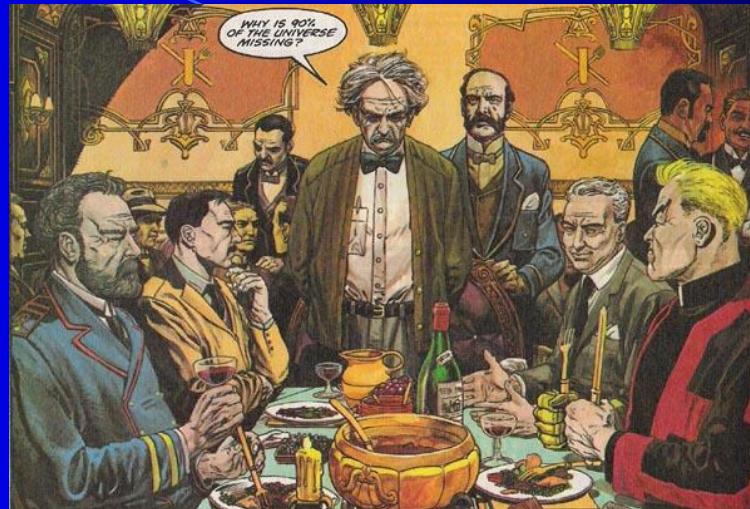
The Best Of Times, The First Of Times - The Grand Opening Sale *Pop* Goes Existence! - Time, Space & Energy Factory Outlet Sale The Colossal Kaboom - Honey, I Blew Up the Cosmic Egg "Oops!" What the heck was THAT!!!? Let There Be Stuff - Stupendous Space Spawning. The Whole Enchilada.

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The favourite practical joke amongst
Big Bang theorists.





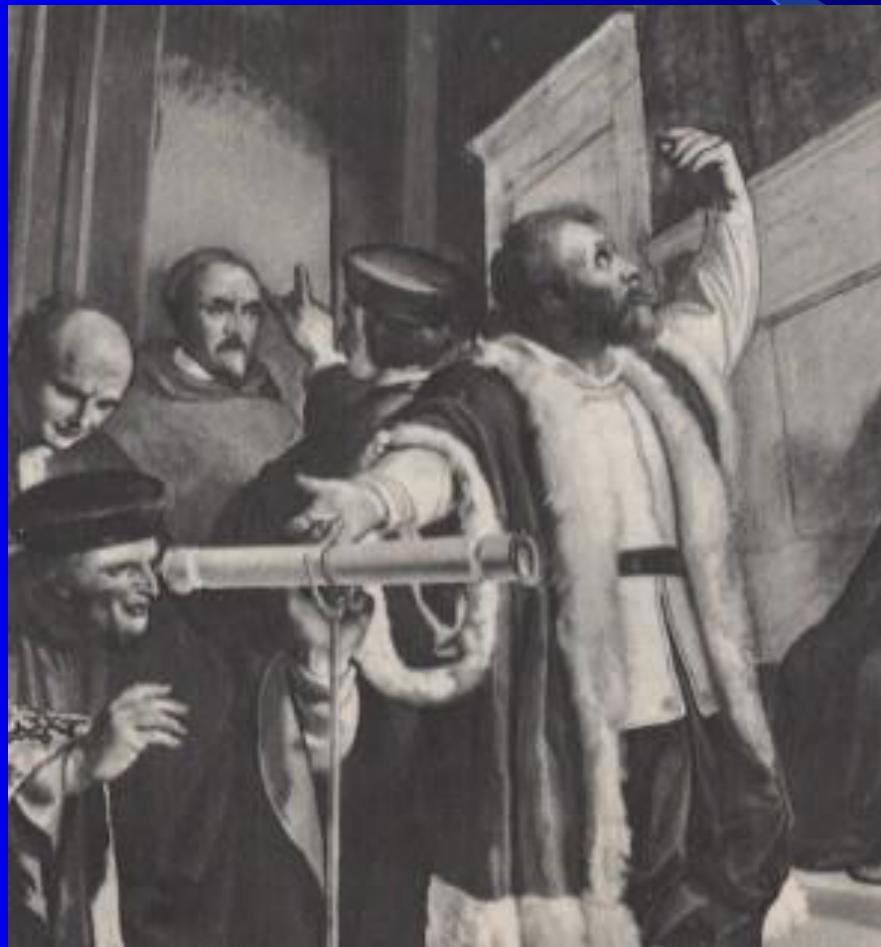


Galileo: When the Moon hits your eye like
a big Pizza-pie, that's my telescope....



Old Man: How come Signor Luigini is in
Signora Tartini's bedroom with that Martini?

Galileo: Mamma mia! That is not the purpose of
a telescope. Look at the skies above!



Befejezö gondolatok

Concluding Thoughts

Science reveals to us the occult aspects of the physical world, and the fruits of science enable us to accomplish many wondrous things.

But what stirs the human spirit and lasts in human history more than scientific discoveries and truths are the insights and visions that have provoked the human mind and heart.

These find expressions in art and music, in poetry and philosophy and myths, and become the lasting legacy of humankind.

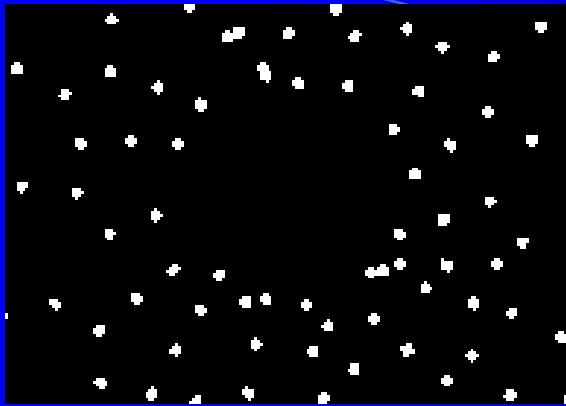
Köszönöm a figyelmüket!

Köszönöm a szíves vendglátást

Thank you!

Thank you for your
Hospitality!











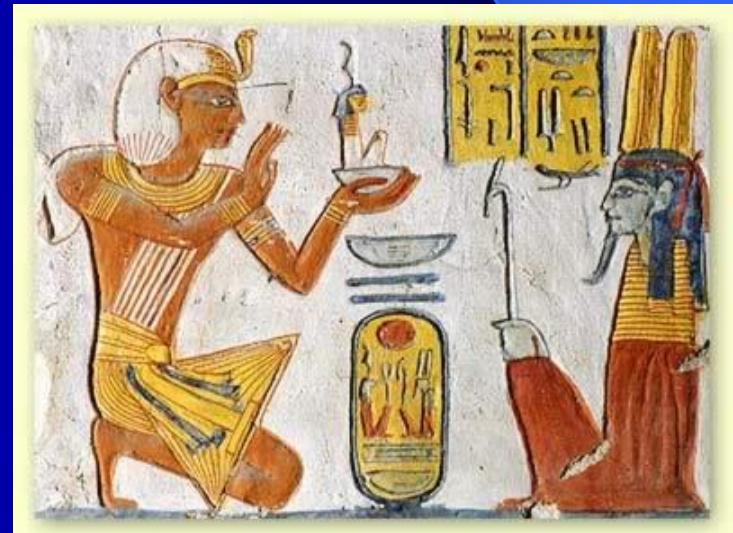
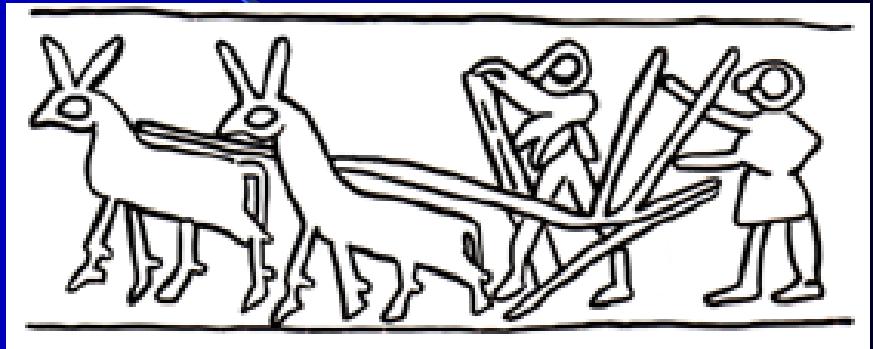
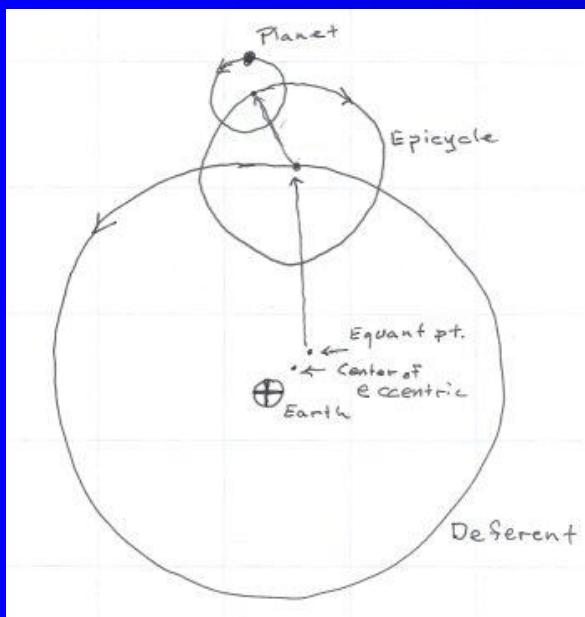
We are descended not only from apes, but also from:



Poets, Philosophers,
and builders

Three Foundation of Civilizations

- Material, Moral
- Worldview



Material Foundations of Ancient Civilizations



Craftsmanship
Ingenious Devices,
& Agriculture.

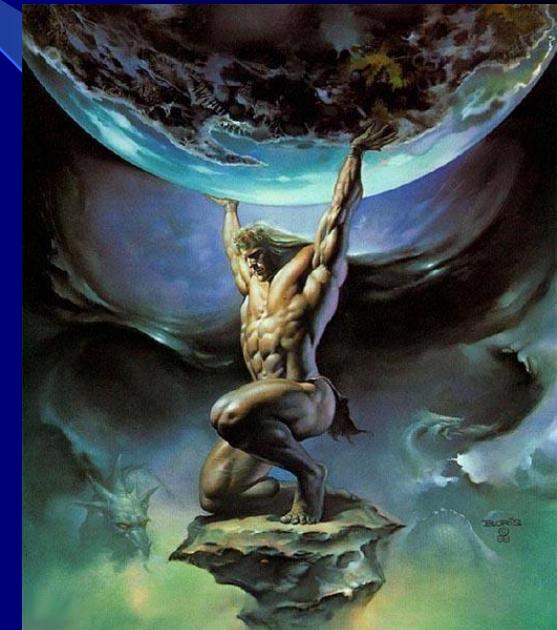
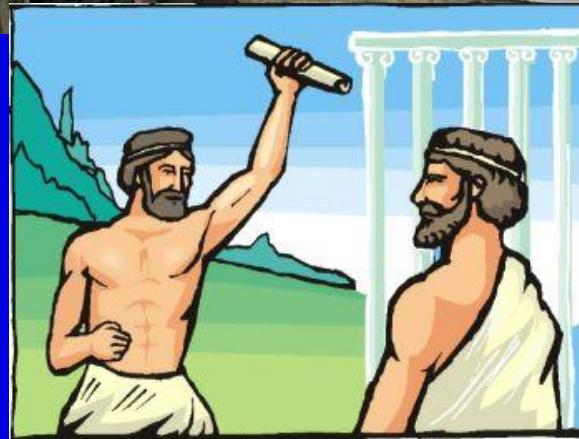
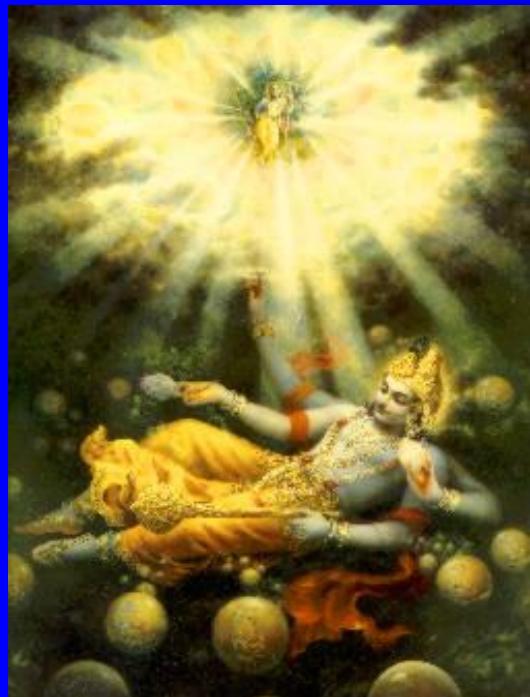


Ethical Dimension of Culture



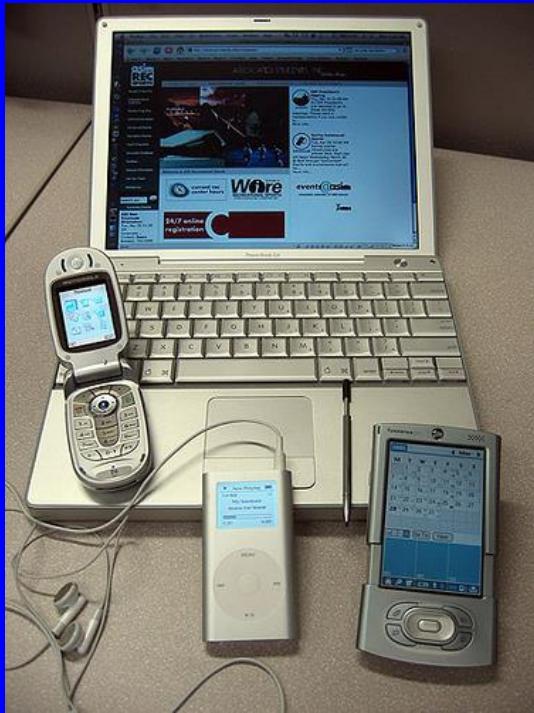
The ethical dimensions of most cultures have their roots in religions: The Ten Commandments, the Bhagavad Gita, the Sermon on the Mount, etc.

Worldview Foundations of Ancient Civilizations



Philosophers and Holy books, Mythic visions

Material Foundations of Modern Civilizations

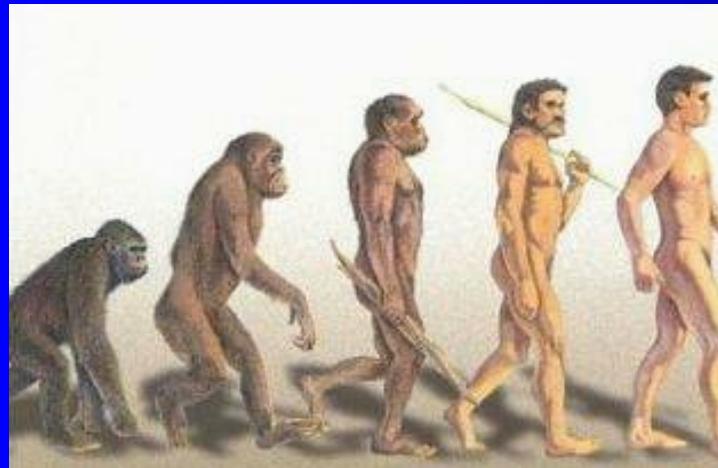


- Energy, **technology** & global communication.

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Worldview Foundations of Modern Civilization

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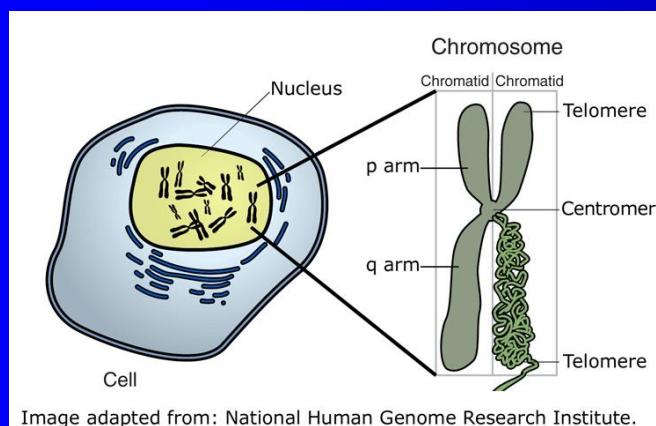
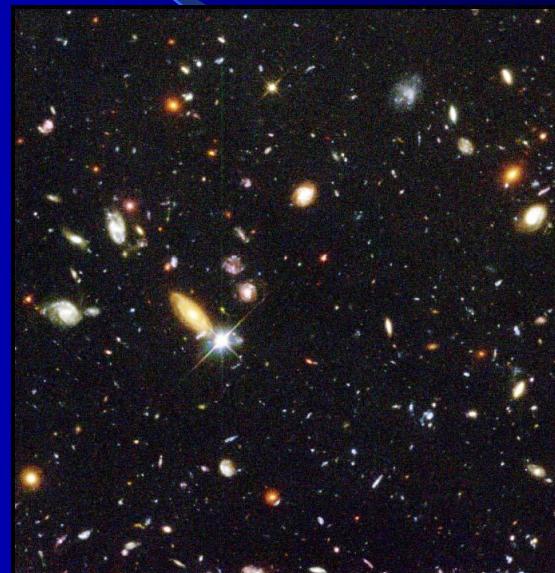
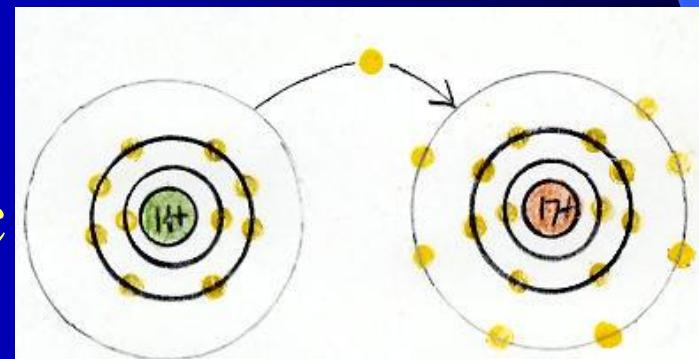
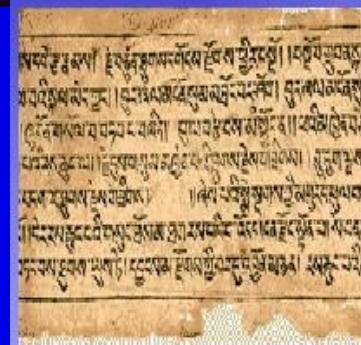


Image adapted from: National Human Genome Research Institute.



Three dimensions of ALL Cultures

Aesthetics: **Art, Music,
Dancing, Literature.**

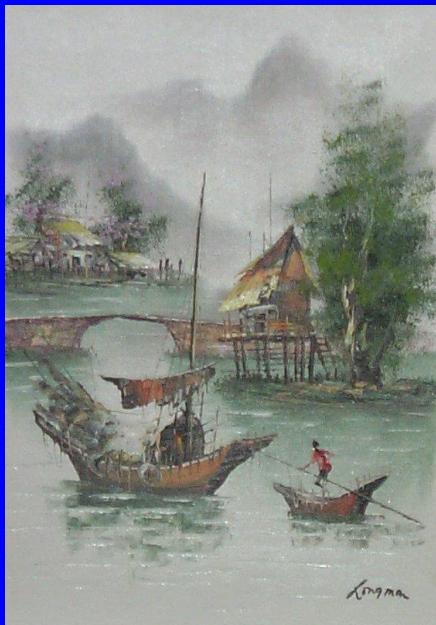


Science



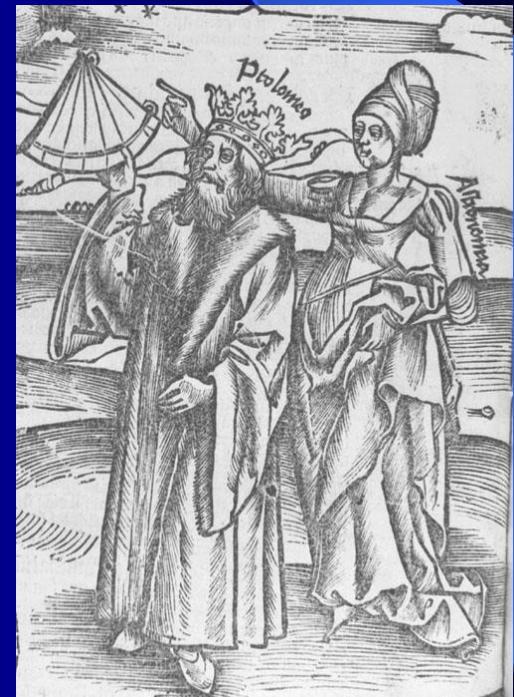
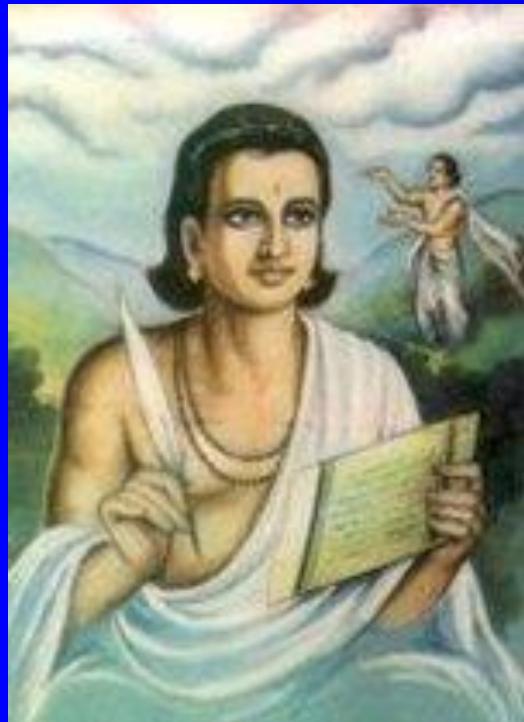
Ethics

Aesthetic richness of Ancient Cultures



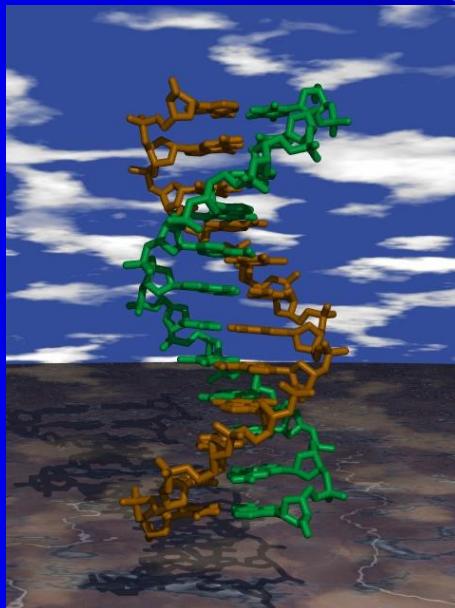
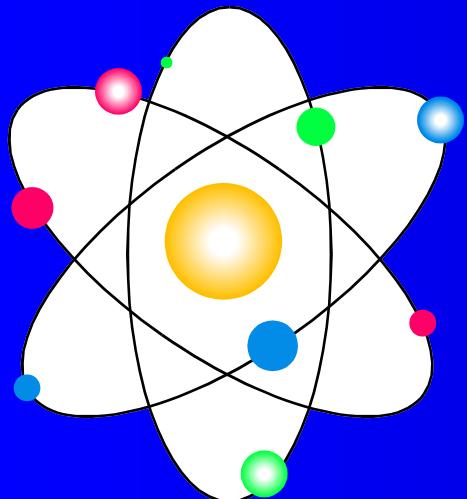
- There was great art, architecture, poetry, and sculpture in the ancient world.

Explanatory Dimension: Ancient



Speculation versus
Hypothesis

Modern: Explanatory Dimension

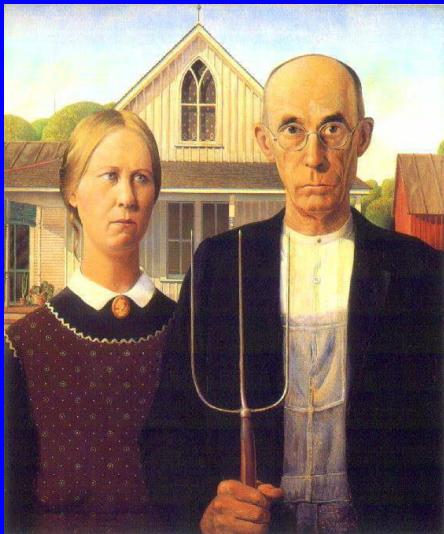


From microcosm to macrocosm, from life to communication.



Classification of People

- Moral Aesthetic Worldview
- Traditional anc/mod anc + mod anc/mod A
Enlightened mod anc + mod mod B
- Reactionary anc anc + mod anc C



A



B



C

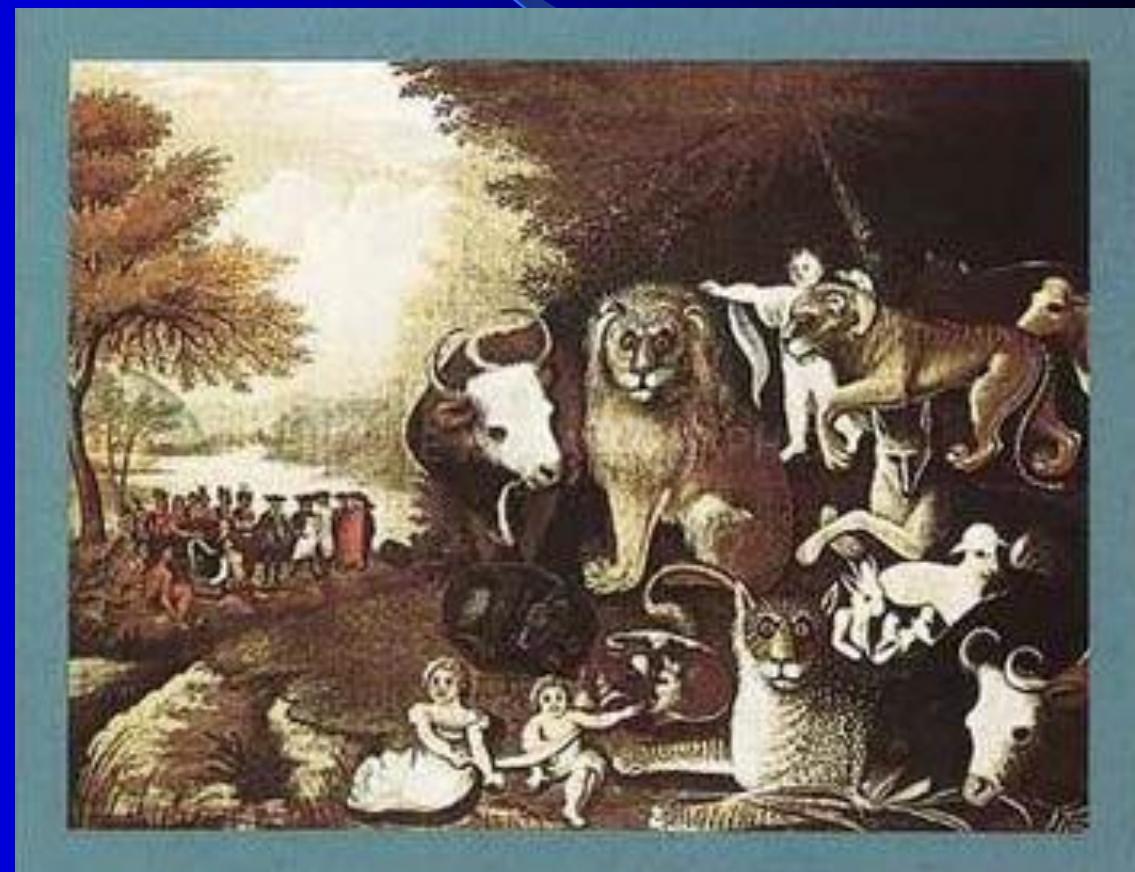
Consciousness Raising



20th century will be remembered as the CR Century.

Diversity and Pluralism: Hope for a Peaceful Future in a World of Diversity

To live in PEACE
and with REASON
in the midst of
conflicting
interests is our
challenge for the
new century.

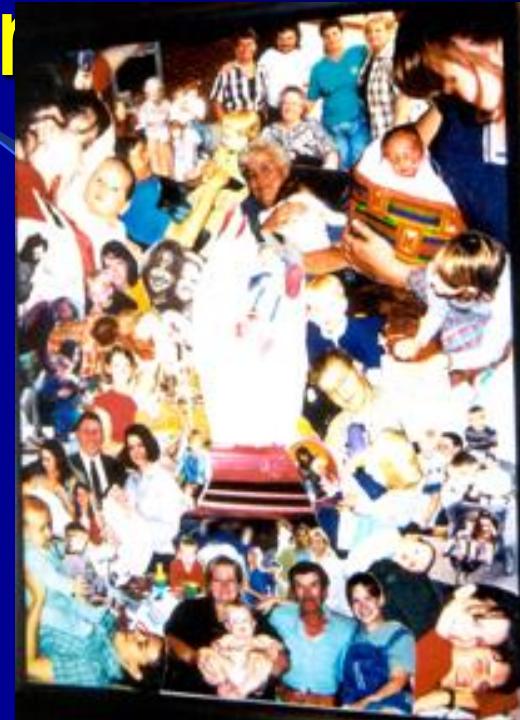
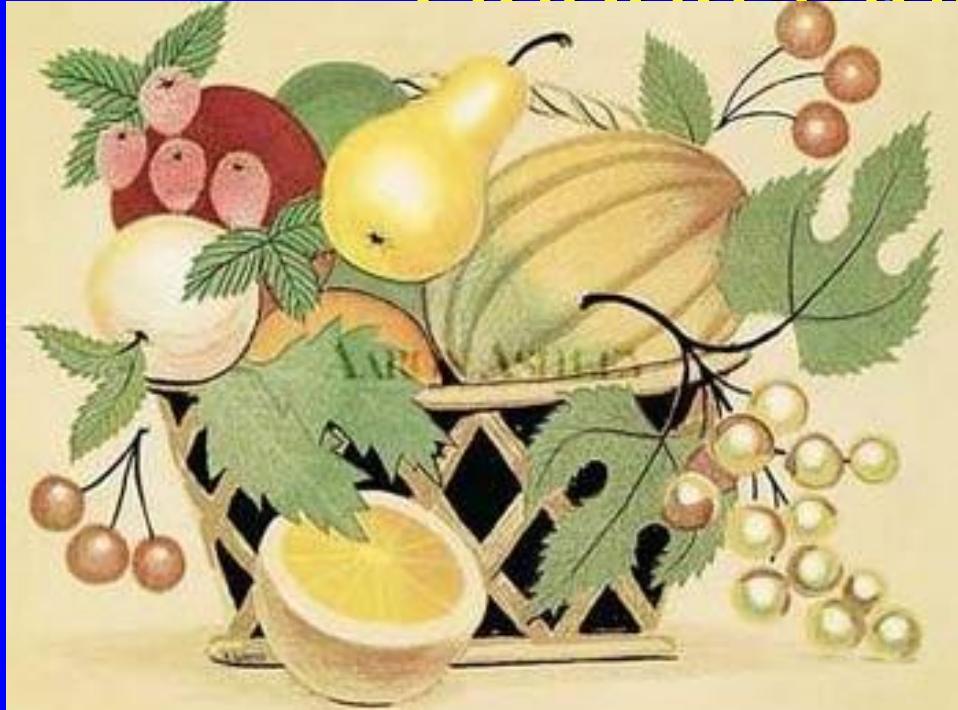








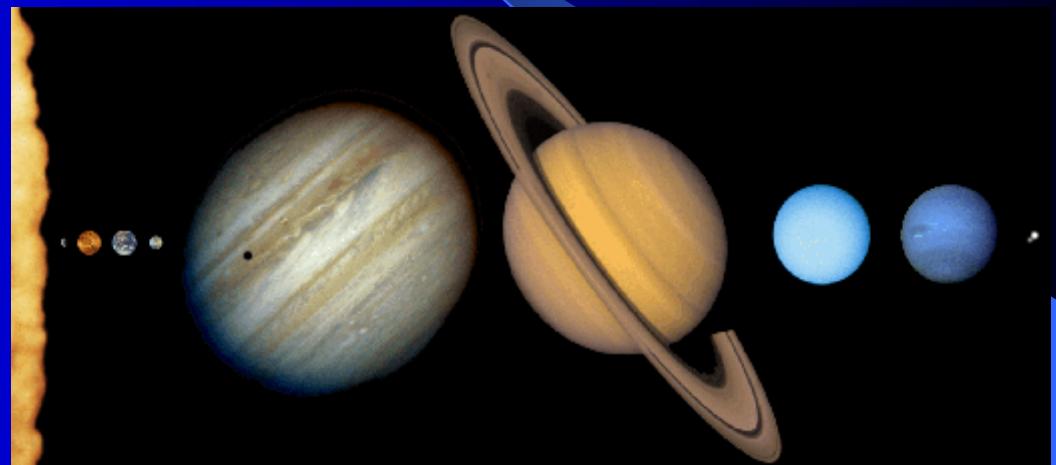
Need for Mutual Understanding



We live in a complex inter-connected world where people of all races and religions interact.



In Core of Stars and on Earth



Studied from nowhere
but from earth

TWO KINDS OF TRUTHS

Exopotent (scientific) truths



Endopotent (religious)
truths

Future Vision



FUTURE VISION

Our goal for the 21st century should be to take the knowledge from science and the spirit of tolerance from religion.

