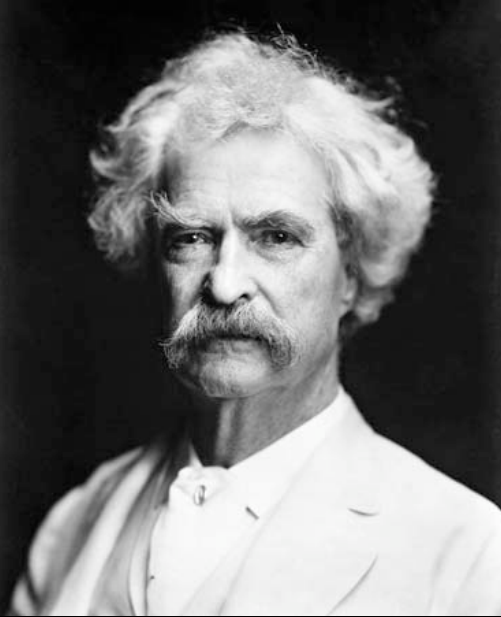




**India's**  
contribution  
to the rest of  
the world





**“India is the cradle of the human race**, the birthplace of human speech, the mother of history, the grandmother of legend, and the great grand mother of tradition. Our most valuable and most constructive materials in the history of man are treasured up in India only”

Mark Twain

**"India was the motherland of our race**

and Sanskrit the mother of Europe's languages.

India was the mother of our philosophy,

of much of our mathematics, of the ideals embodied in christianity... of self-government and democracy.

In many ways, Mother India is the mother of us all."



- Will Durant

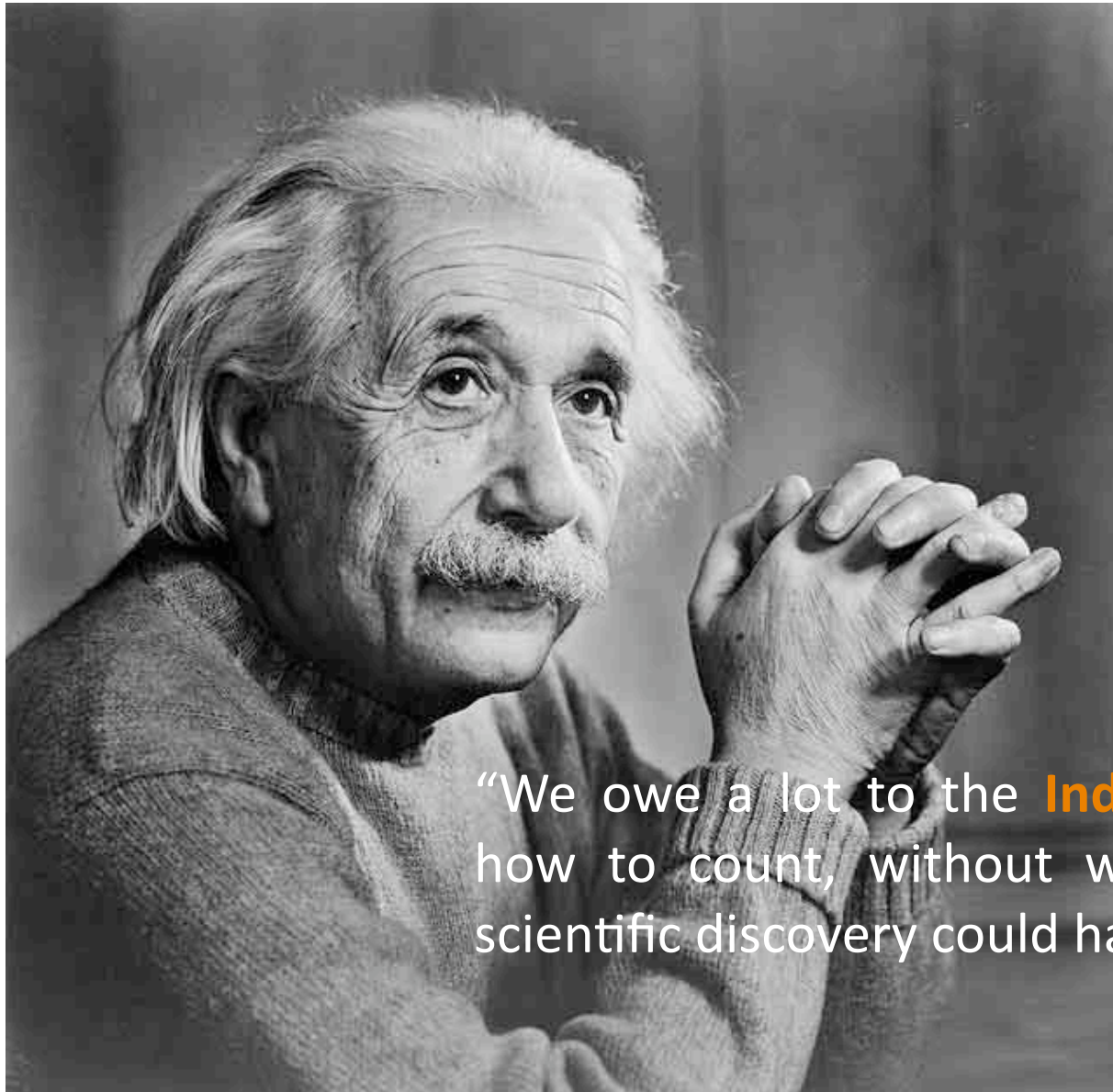
- American Historian 1885-1981

“If there is one place on the face of this Earth where all the dreams of living men have found a home from the very earliest days when Man began the dream of existence, it is **India.**”

*Romain Rolland - French Philosopher 1886-1944*





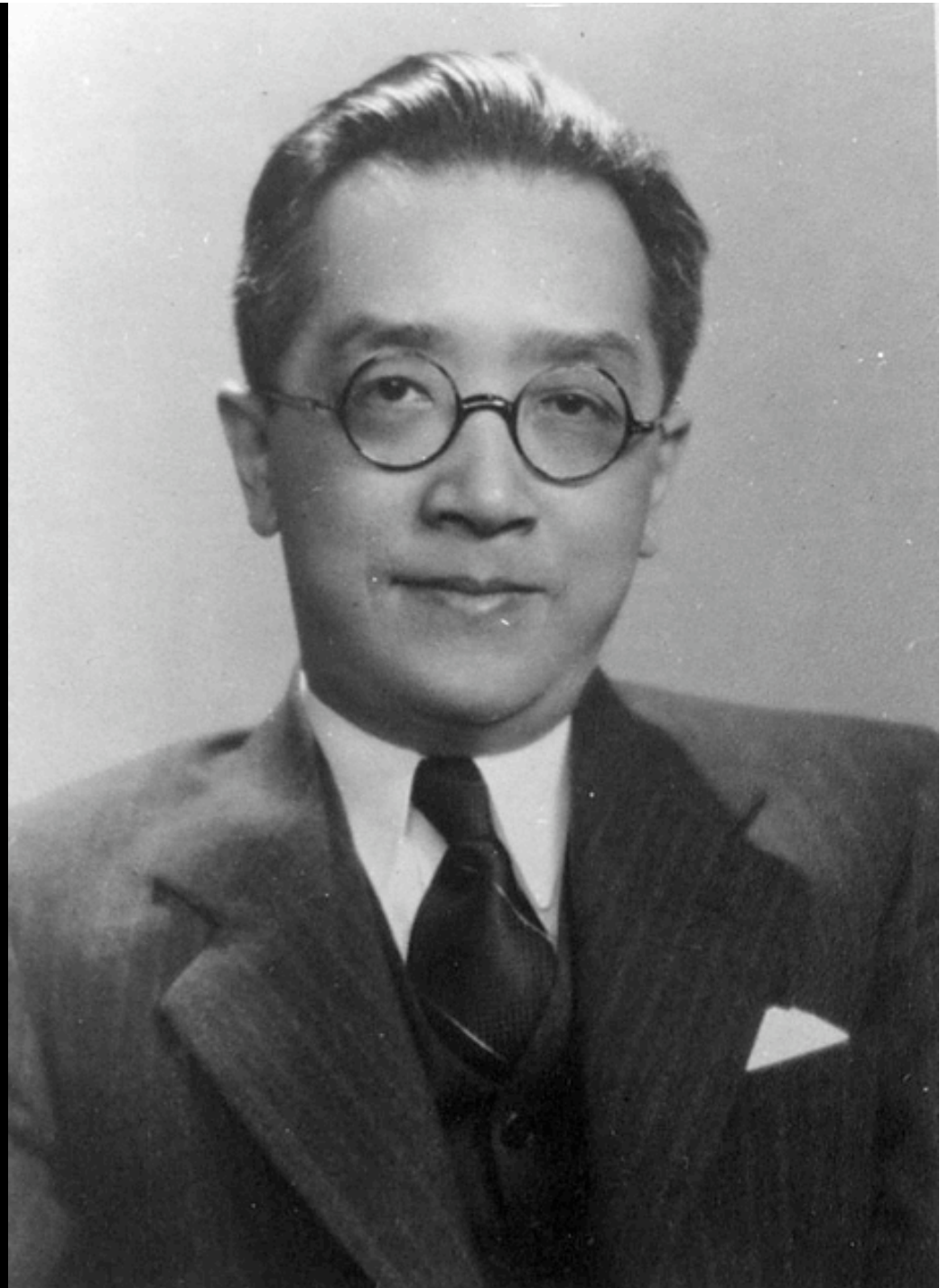


“We owe a lot to the **Indians**, who taught us how to count, without which no worthwhile scientific discovery could have been made”

Albert Einstein

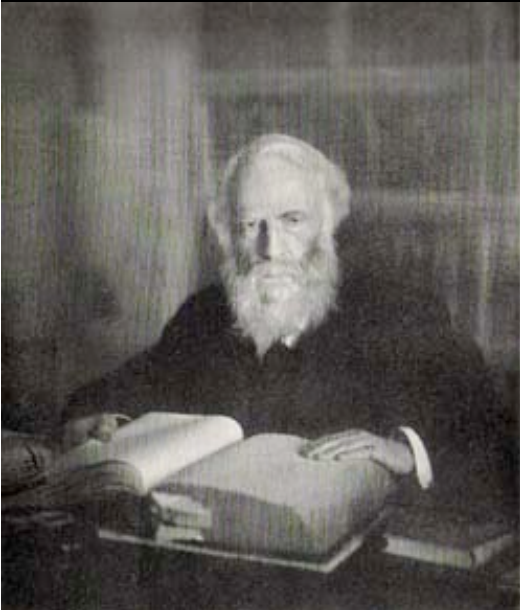
**“India** conquered and dominated China culturally for 20 centuries without ever having to send a single soldier across her border.”

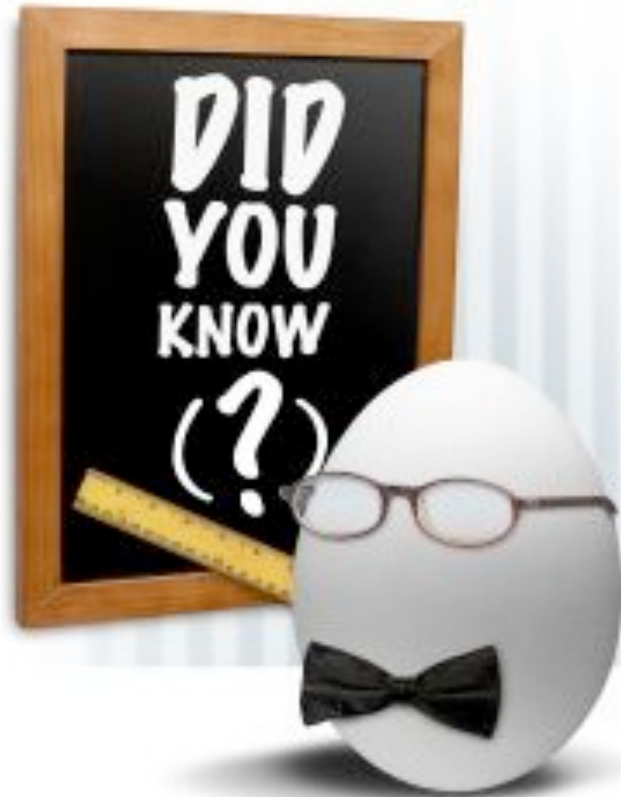
*Hu Shih, former Ambassador of  
China to USA*



“Many of the advances in the sciences that we consider today to have been made in Europe were in fact **made in India centuries ago**”

*Grant Duff British Historian of India*

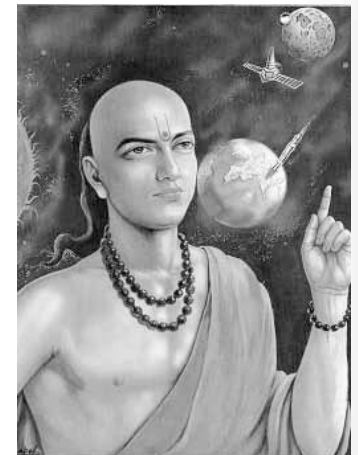






The background of the slide consists of two vertical stripes of color. The left stripe is orange and has a slightly wavy, torn-edge appearance. The right stripe is green and is a solid, uniform color. The two stripes meet at a white vertical line in the center.

India never invaded any country in her  
last 10,000 years of history.



India invented the Number System. Zero was invented by Aryabhata.

The place value system, the decimal system was developed in India in 100 BC.

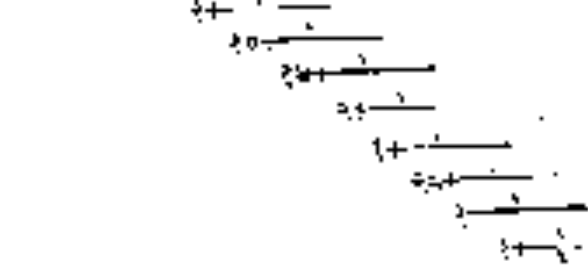
śūnya = void  
kha = sky  
ākāśa = space  
bindu = dot

सप्तमं क्रमिकं सीरुवर्गं अधिवासमानम् ।



एतत् प्रथमसमानानि

१ २ ३ ४ ५ ६ ७ ८ ९ १० ११ १२ १३ १४ १५ १६ १७ १८ १९ २० २१ २२ २३ २४ २५ २६ २७ २८ २९ ३० ३१ ३२ ३३ ३४ ३५ ३६ ३७ ३८ ३९ ४० ४१ ४२ ४३ ४४ ४५ ४६ ४७ ४८ ४९ ५० ५१ ५२ ५३ ५४ ५५ ५६ ५७ ५८ ५९ ६० ६१ ६२ ६३ ६४ ६५ ६६ ६७ ६८ ६९ ७० ७१ ७२ ७३ ७४ ७५ ७६ ७७ ७८ ७९ ८० ८१ ८२ ८३ ८४ ८५ ८६ ८७ ८८ ८९ ९० ९१ ९२ ९३ ९४ ९५ ९६ ९७ ९८ ९९ १००



एतत् प्रथमसमानानि

१ २ ३ ४ ५ ६ ७ ८ ९ १० ११ १२ १३ १४ १५ १६ १७ १८ १९ २० २१ २२ २३ २४ २५ २६ २७ २८ २९ ३० ३१ ३२ ३३ ३४ ३५ ३६ ३७ ३८ ३९ ४० ४१ ४२ ४३ ४४ ४५ ४६ ४७ ४८ ४९ ५० ५१ ५२ ५३ ५४ ५५ ५६ ५७ ५८ ५९ ६० ६१ ६२ ६३ ६४ ६५ ६६ ६७ ६८ ६९ ७० ७१ ७२ ७३ ७४ ७५ ७६ ७७ ७८ ७९ ८० ८१ ८२ ८३ ८४ ८५ ८६ ८७ ८८ ८९ ९० ९१ ९२ ९३ ९४ ९५ ९६ ९७ ९८ ९९ १००

सप्तमं क्रमिकं सीरुवर्गं अधिवासमानम् ।  
 सीरुवर्गः २५२००००  
 अधिवासः ५५२०६  
 वा = २५२०५५८  
 पञ्चसिद्धांतिका = २५२०५५८  
 सप्तमं क्रमिकं सीरुवर्गं अधिवासमानम् ।

This method of graduated calculation was documented in the Pancha-Siddhantika (Five Principles) in the 5th Century But the technique is said to be dating from Vedic times circa 2000 B.C.

The value of pi was first calculated by Budhayana, & he explained the concept of what is now known as the Pythagorean Theorem



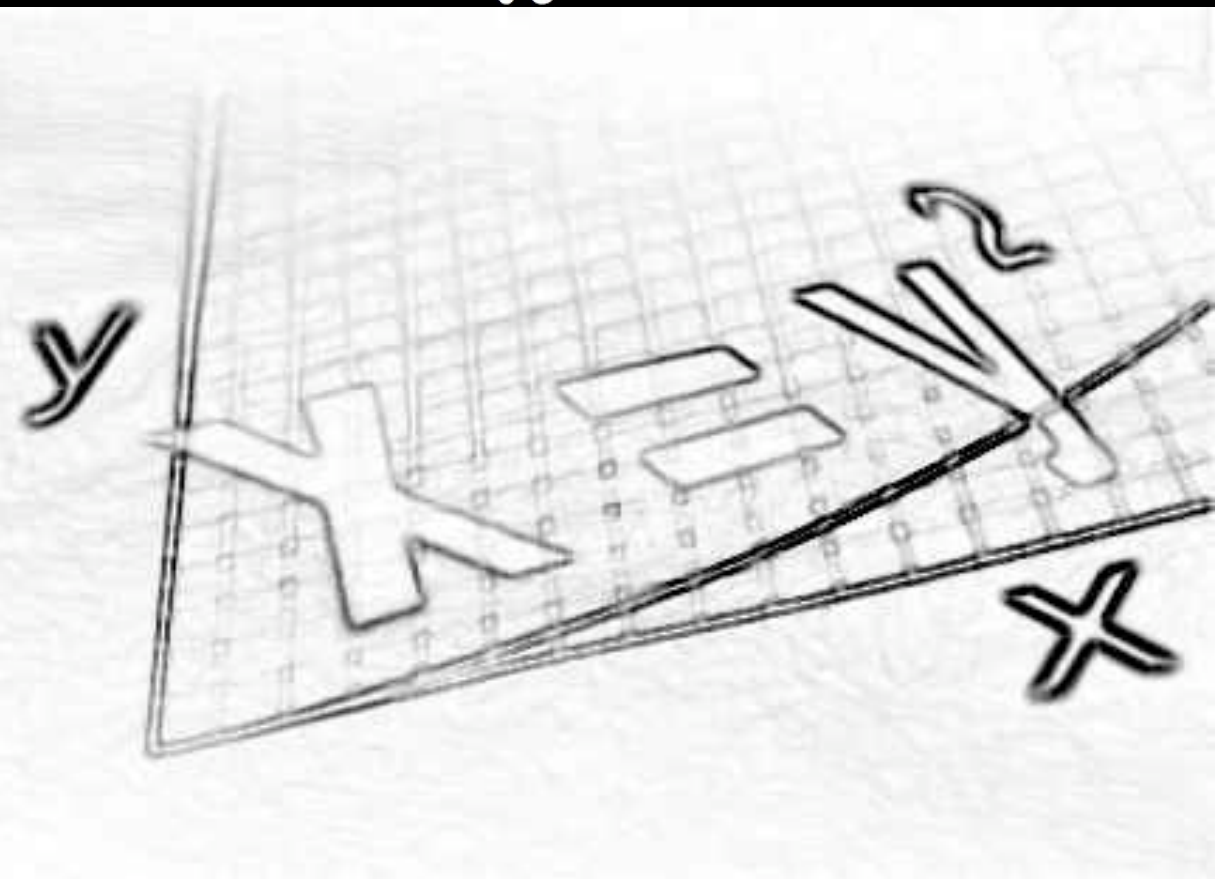
British scholars have last year (1999) officially published that Budhayan's works date back to the 6th Century, which is long before the European mathematicians

3. 14159265263124534235679534235453  
4666578012030506923969306949396843828574389389342809809076534532453542  
2858286858919431923014029712865014382857438938934280980907653453245354  
2285828685891943192301402971286501604372461123448237437238299194848392  
9412383434143245645774945505943534534949494871470789531123123456767890  
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9243946835857838967115111742834249234044960983409283409183401948457345  
2903481093841094825079218934019850958031294734258093480948233409283409  
6729073409284230984820394809123849031248490238409234820981093481209381  
2353457898097989856745674563411213434454647787007867846342346474791943



Algebra,  
Trigonometry &  
Calculus  
came from India.

$$\frac{d}{d \text{☁}} \int_{\pi}^{\text{☁}} \text{☀} d \text{☀}$$



$$ax^2 + bx + c = 0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Quadratic equations were by Sridharacharya  
in the 11th Century

The largest numbers the Greeks and the Romans used were  $10^{**6}$ (10 to the power of 6) whereas Hindus used numbers as big as  $10^{**53}$ (10 to the power of 53) with specific names as early as 5000 BCE during the Vedic period

Even today, the largest used number is Tera  $10^{**12}$ (10 to the power of 12)

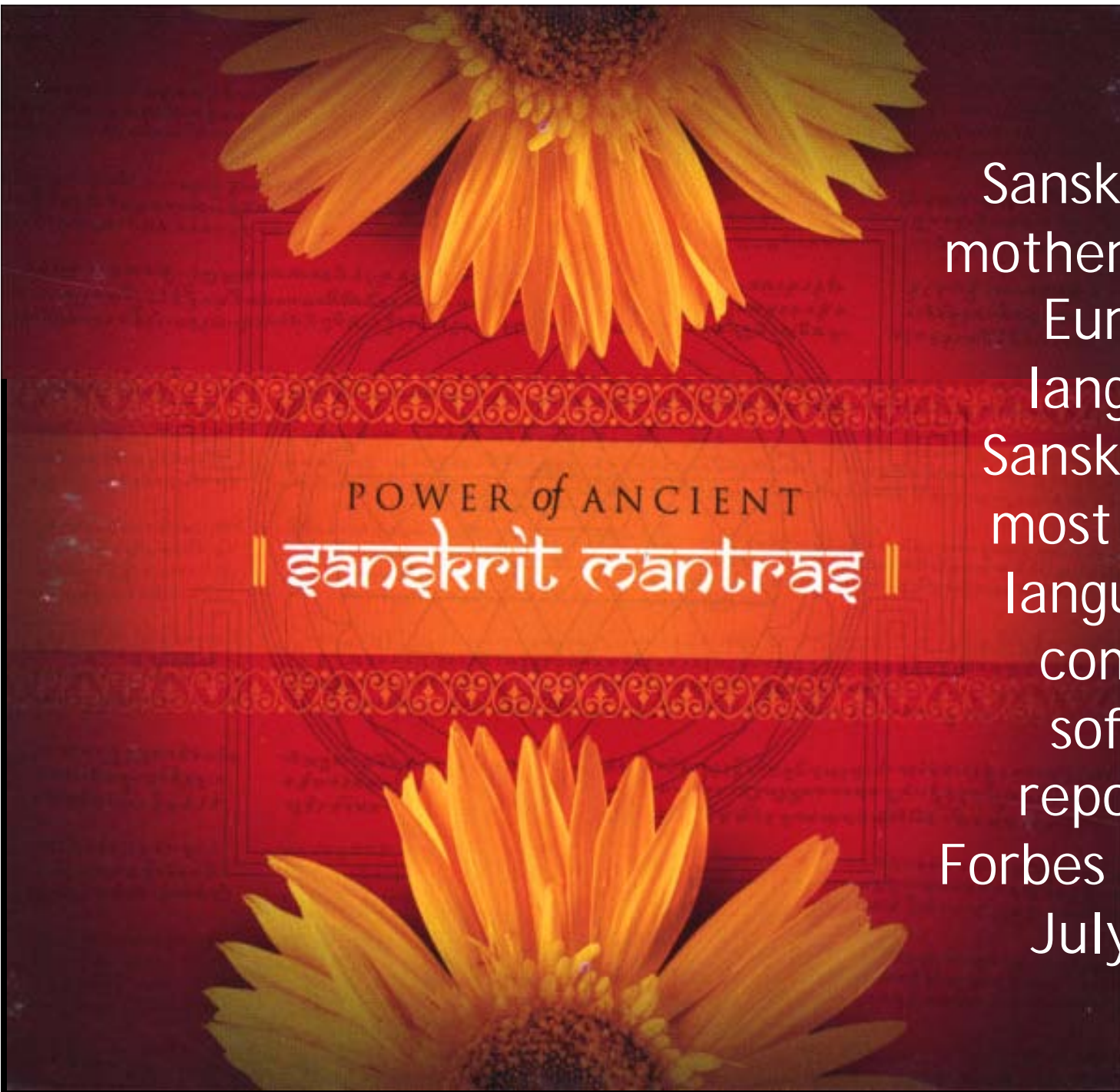


The World's first university was established in Takshila in 700BC.

More than 10,500 students from all over the world studied more than 60 subjects.

The University of Nalanda built in the 4th century BC was one of the greatest achievements of ancient India in the field of education.





POWER of ANCIENT

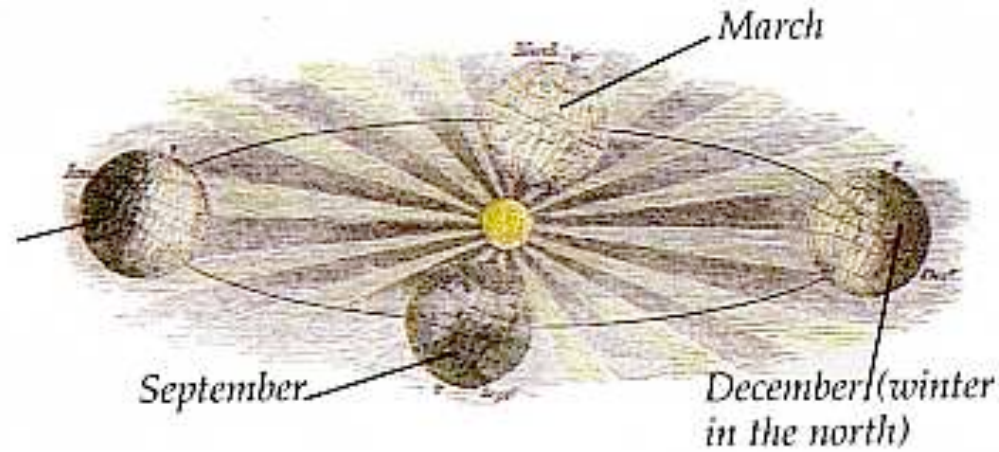
॥ इण्डेक्रीत लान्त्राड ॥

Sanskrit is the mother of all the European languages. Sanskrit is the most suitable language for computer software reported in Forbes magazine, July 1987.



According to the Forbes magazine, Sanskrit is the most suitable language for computer software

गुगलिया<sup>TM</sup>  
संस्कृते



Bhaskaracharya calculated the time taken by the earth to orbit the sun hundreds of years before the astronomer Smart.

Time taken by earth to orbit the sun: (5th century)  
365.258756484 days



Ayurveda is the earliest school of medicine known to humans. Charaka, the father of medicine consolidated Ayurveda 2500 years ago.

Today Ayurveda is fast regaining its rightful place in our civilization.

The art of Navigation was born in the river Sindh  
6000 years ago.

The very word Navigation is derived from the  
Sanskrit word NAVGATI.

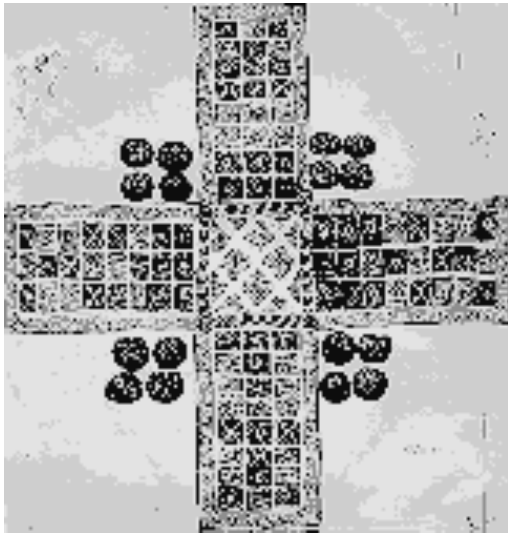
The word navy is also derived from Sanskrit 'Nou'.





According to the Gemological Institute of America, up until 1896, India was the only source for diamonds to the world.





Chess (Shataranja or AshtaPada) was invented in India

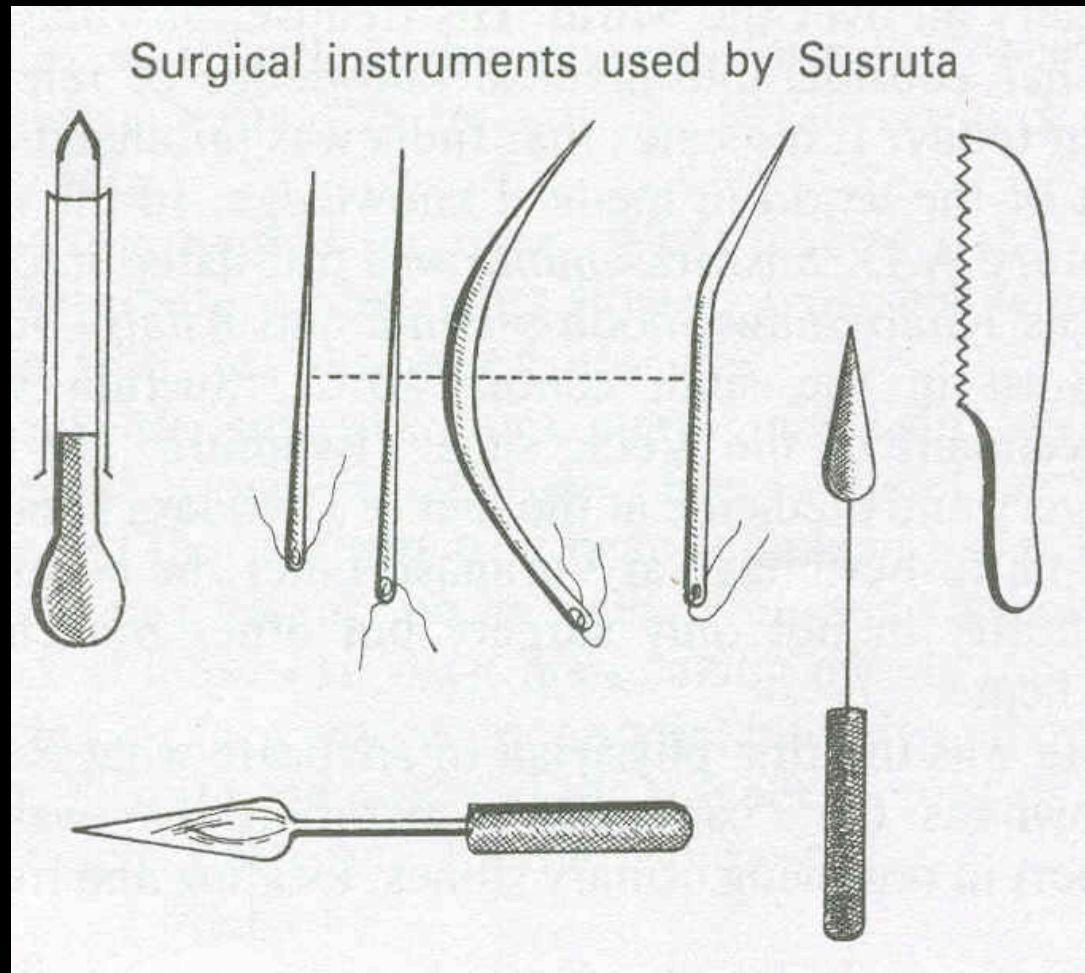




Sushruta is the father of surgery.

2600 years ago he and health scientists of his time conducted complicated surgeries like cesareans, cataract, artificial limbs, fractures, urinary stones and even plastic surgery and brain surgery. Usage of anesthesia was well known in ancient India

Over 125 surgical equipment were used



Deep knowledge of anatomy, physiology, etiology, embryology, digestion, metabolism, genetics and immunity is also found in many texts

The earliest reservoir and dam for irrigation was built  
in Saurashtra





**Ancient Indus Civilization**

When many cultures were only nomadic forest dwellers over 5000 years ago, Indians established Harappan culture in Sindhu Valley (Indus Valley Civilization)

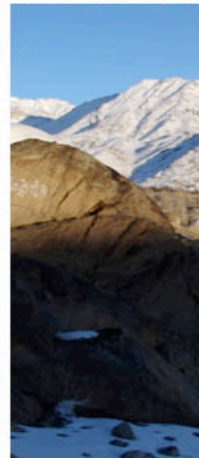
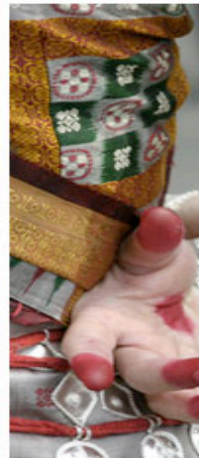




*Sare Jaha Se Accha  
Hindusitaan Hamara*

Want to know more???

*India*



*India's Contribution to*  
*Production Technology and Mechanical*  
*Engineering*



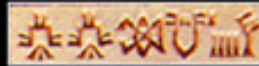
In ancient times, commodities like sugar, palm oil, coconut oil, cotton cloth, clarified butter, cast iron, tin sheets, copper vessels, dyes and pigments like cinnabar (ochre), indigo and lac, perfumes like sandalwood oil, musk tamarind, costus, macir, camphor, and even crude glass crockery were being exported from India



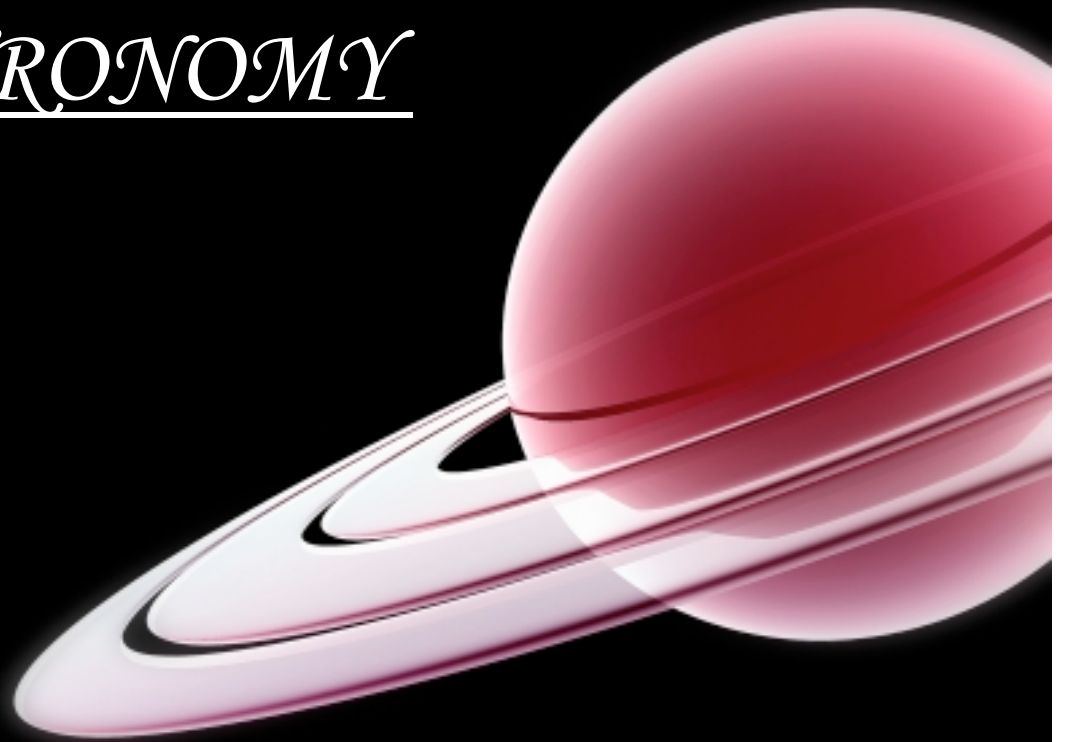


The earliest recorded use of copperware in India has been around 3000 B.C.

The findings at Mohen-jo-daro and Harappa, bear this out The earliest documented observation of smelting of metals in India is by Greek Historians in the 4th Century B.C



*India's Contribution to -*  
*ASTRONOMY*







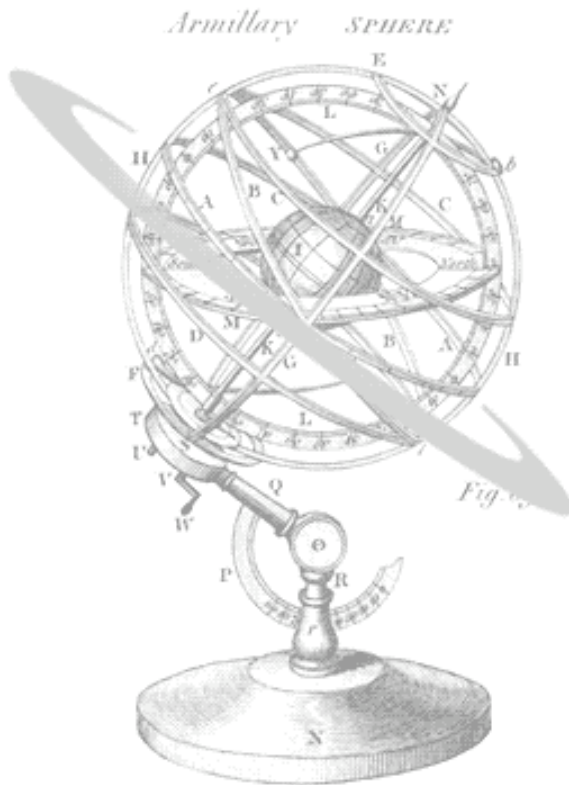
"**In India** I found a race of mortals living upon the Earth. but not adhering to it. Inhabiting cities, but not being fixed to them, possessing everything but possessed by nothing". - Apollonius Tyanaeus

*Greek Thinker and Traveller 1st Century AD*

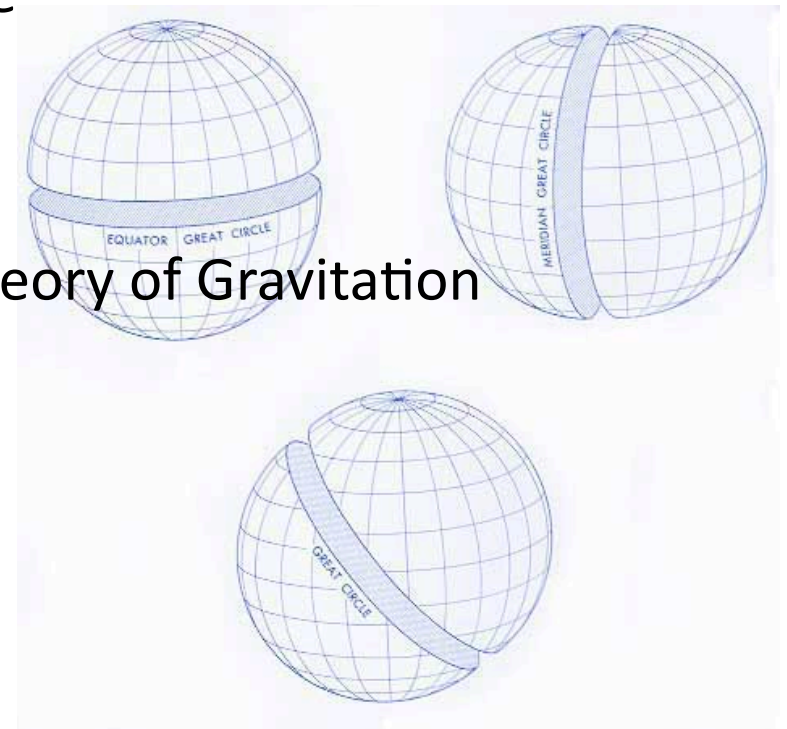


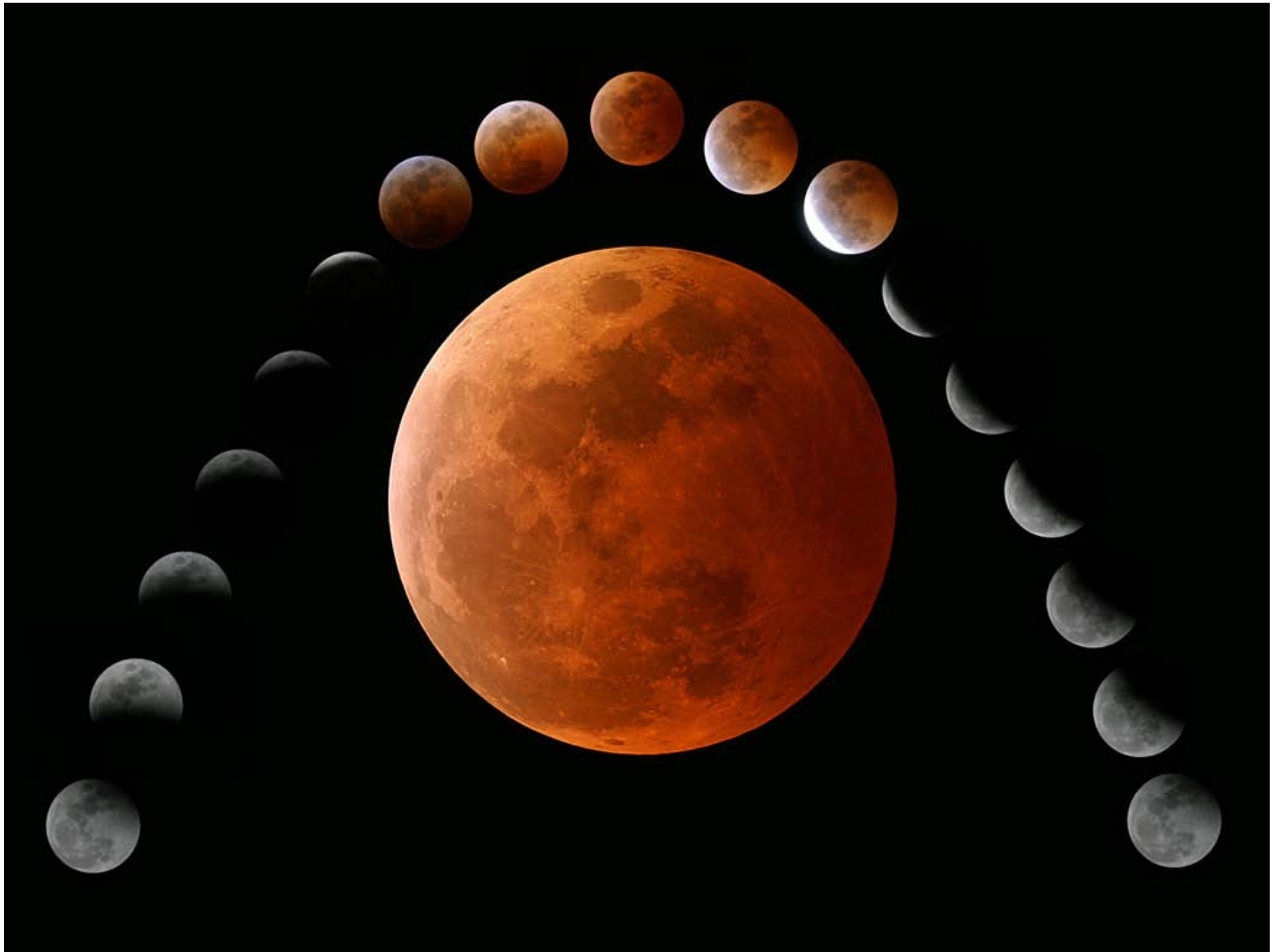
In India the first references to astronomy are to be found in the Rig Veda which is dated around 2000 B.C

## The Calculation of Eclipses And The Earth's Circumference



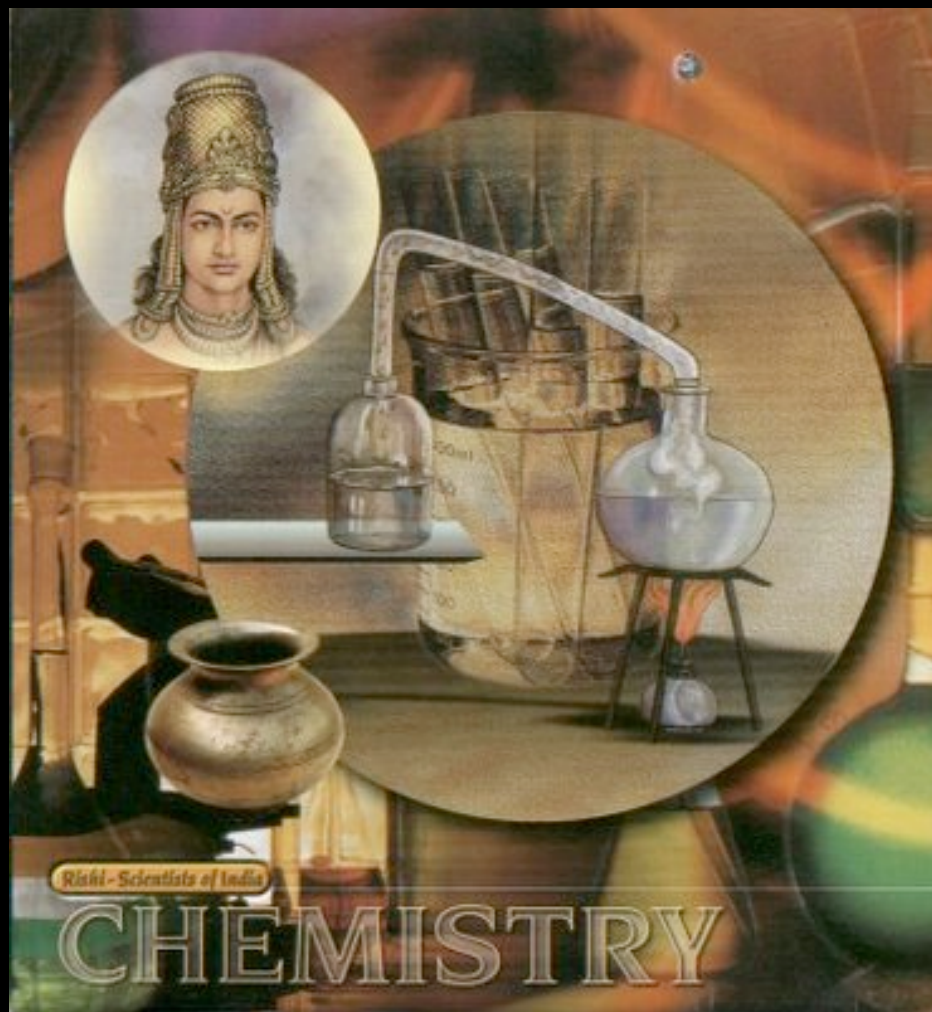
## The Heliocentric Theory of Gravitation







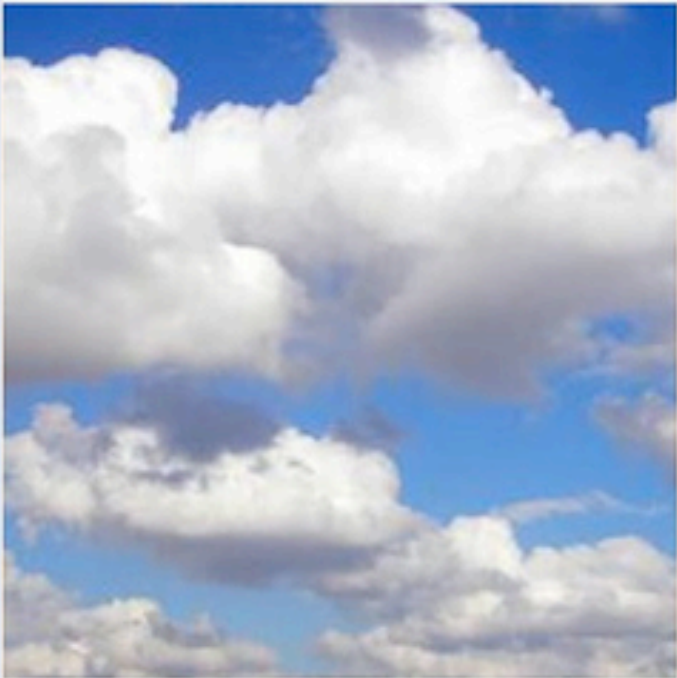
*India's Contribution to –*  
*PHYSICS & CHEMISTRY*





“Ancient Indian theories lacked an empirical base, but they were brilliant imaginative explanations of the physical structure of the world, and in a large measure, agreed with the discoveries of modern physics”

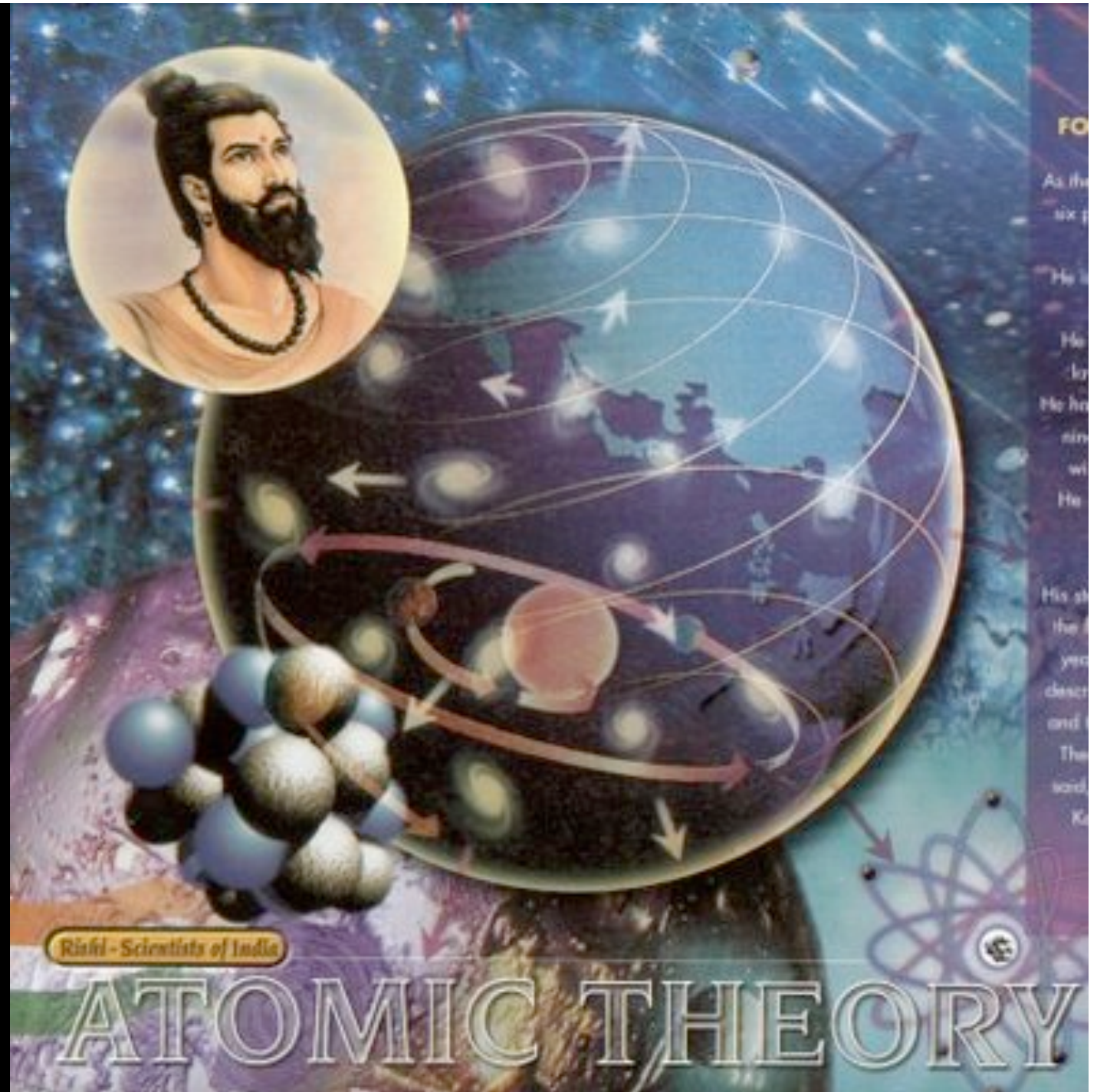
*A.L. Basham, Australian Indologist*



The Five Basic  
Physical Elements

Anu & Parmanu

Indian Ideas  
on Atomic Physics





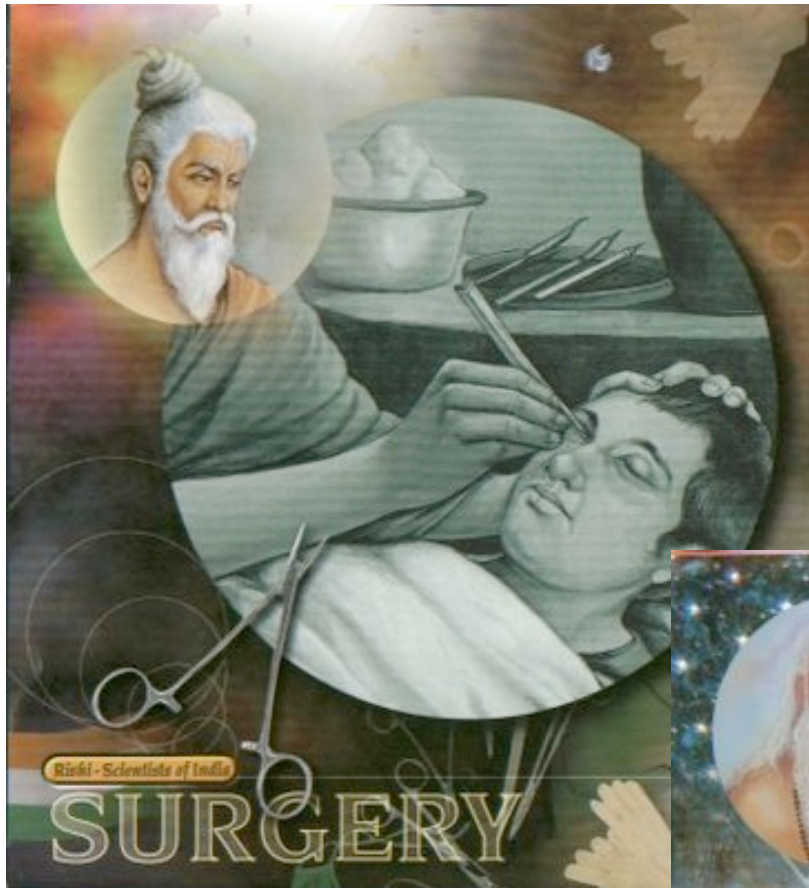
*India's Contribution to*  
*MEDICAL SCIENCE*



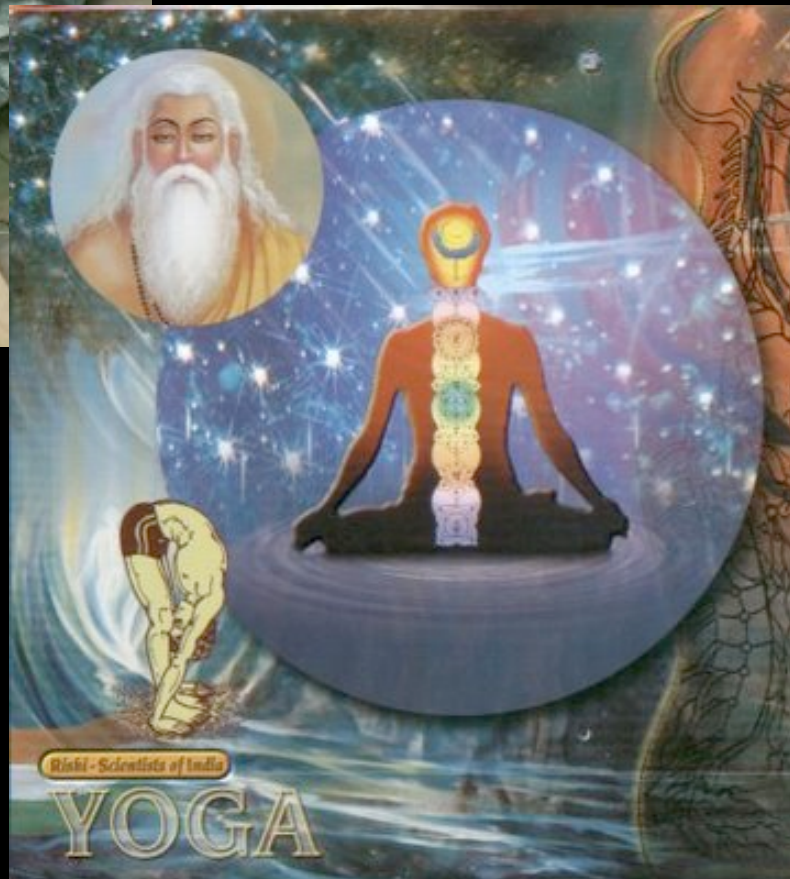
"In the great teaching of the Vedas, there is no touch of sectarianism. It is of all ages, climes and nationalities and is the royal road for the attainment of the Great Knowledge"

*Thoreau, American Thinker*





## SHASTRAKARMA THE ART OF SURGERY



## AYURVEDA THE SCIENCE OF LONGEVITY



**YOG - HEALTH OF THE BODY AND MIND**

*India's Contribution to*  
*THE FINE ARTS*

"If I am asked which nation had been advanced in the ancient world in respect of education and culture then I would say it was – **India**"

Max Muller German Indologist





MUSIC

PAINTING

LINGUISTICS



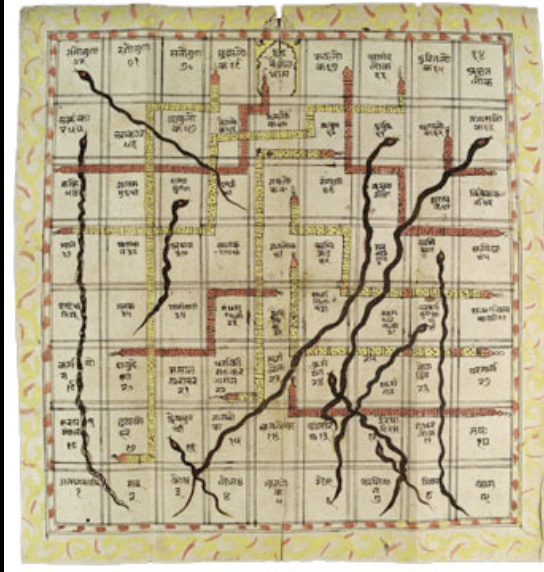
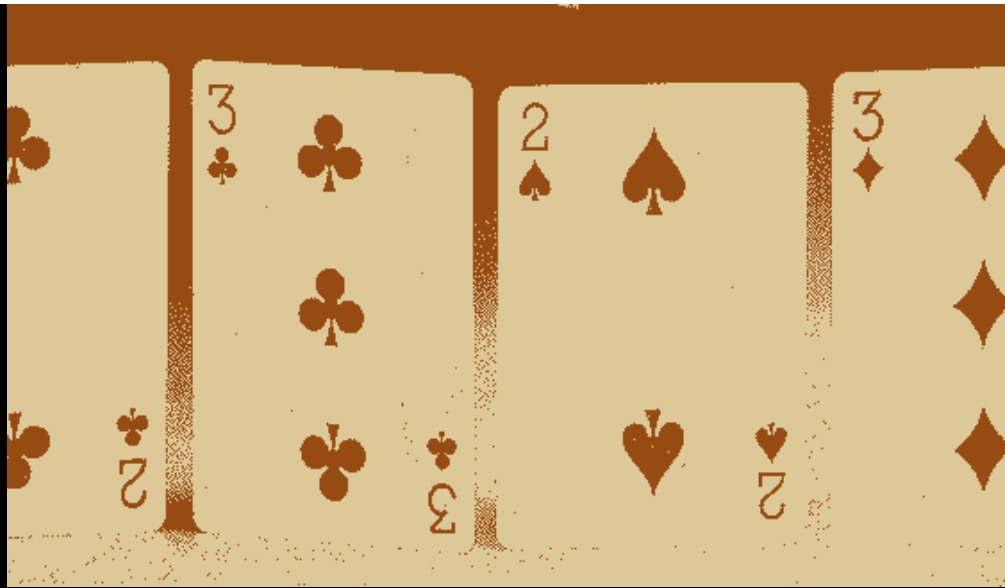
DANCE

THEATRE

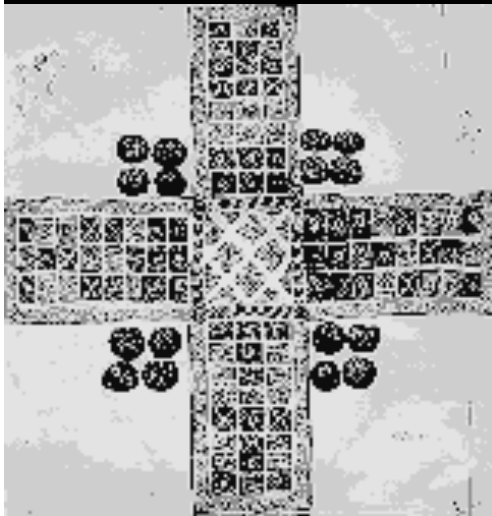


*SPORTS AND GAMES*  
*- In Ancient India*





Chess, Snakes and Ladders, Playing Cards, Polo, the martial arts of Judo and Karate



*India's Contribution to –*  
*PHILOSOPHY*





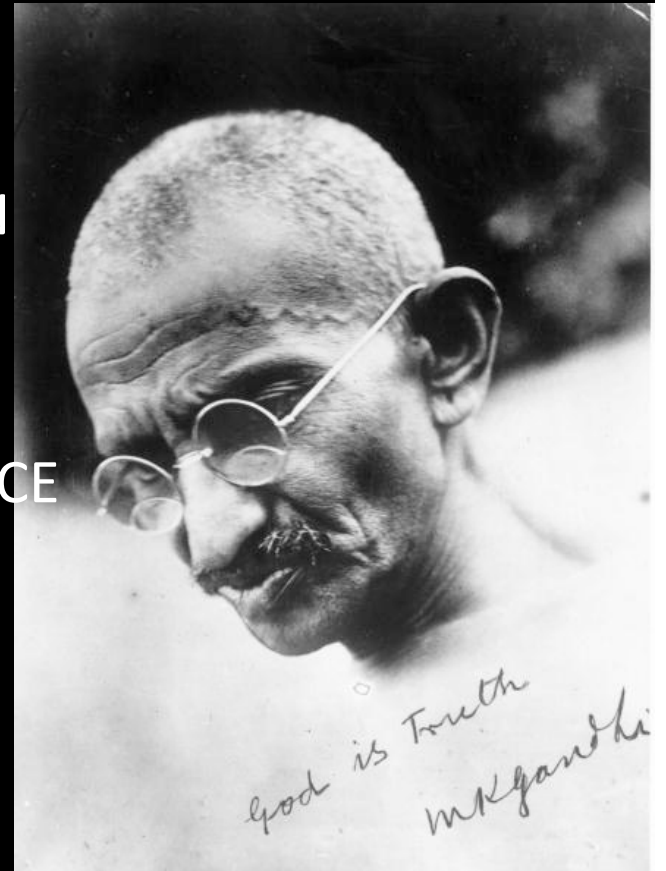
**"In religion, India is the only millionaire ....** The One land that all men desire to see and having seen once, by even a glimpse, would not give that glimpse for all the shows of all the rest of the globe combined".

Mark Twain, American Author 1835-1910



MEDITATION AND RENUNCIATION

AHIMSA - NON VIOLENCE



RELIGIOUS TOLERANCE

CURRENT INFORMATION:

There are 3.22 Million Indians in America.  
38% of Doctors in America are Indians.  
12% of Scientists in America are Indians.  
36% of NASA employees are Indians.  
34% of MICROSOFT employees are Indians  
28% of IBM employees are Indians  
17% of INTEL employees are Indians  
13% of XEROX employees are Indians



- ❖ First democracy to elect a woman Prime Minister.
- ❖ India is the 7th nuclear power in the world
- ❖ India is the 5th largest economy in the world
- ❖ India is the largest democracy in the world
- ❖ India has the 2nd largest population in the world (could be a bad point)
- ❖ India is the 4th nation in the world to have developed/or developing a nuclear submarine
- ❖ India is the 5th nation in the world to be in the multi billion dollar space commerce business.
- ❖ India is the 4th nation in the world to develop (or nearly to) ICBM's (can travel up to 14,000km)
- ❖ India is the 3rd nation in the world, to be able to develop land based and sea based cruise missiles

The background is a dark, almost black, space filled with numerous light rays. These rays originate from various points and fan out towards the center, creating a sense of depth and movement. The colors of the rays are diverse, including shades of blue, green, yellow, orange, and red. Some rays are sharp and bright, while others are more diffused and softer. In the lower center, there is a small, horizontal, multi-colored streak that appears to be a reflection or a small object. The overall effect is that of a futuristic or scientific environment, possibly a data visualization or a stylized representation of light and space.

# SUMMING UP

Human excellence depends on development of culture

World's first culture (Yajurveda 7/14: Sa Prathama Sanskriti Vishwara)

Many small civilizations were formed but were confined to small regions.

Only Indian culture can be called as first world culture.

### Indian Culture = Human Culture

Culture that focuses on inculcating human values in a man

ॐ नमो भगवते वासुदेवाय  
One infinite - mind body - beyond thought  
beyond qualities - I know damn little



Shri Vivekananda



## Unique features of Indian Culture

### 1. Freedom of thought

- Every thought is allowed to develop freely.
- Theist & Atheist
- Vedanta speaks of soul as image of the Supreme
- Everyone is free to imagine and accept God's form according to one's beliefs.
- Every thought school is part & parcel of Indian Culture.
- A garden has variety of flowers and plants. These differences increase the beauty of the garden







2. Theory of Karmaphal  
- Rebirth

3. Idealistic families

4. Abundance of saints & reformers.

5. Division of society order (based on personal choice,  
interest, capabilities) & personal life  
for personal development,  
for development of society





It is already becoming clearer that a chapter which has a western beginning will have to have an **Indian ending** if it is not to end in the self-destruction of the human race... At this supremely dangerous moment in history the only way of salvation for mankind is the Indian Way“

*Dr. Arnold Toynbee British Historian 1889-1975*



# Mera Bharat Mahan



Prepared by : Gayatri Parivar Youth Group, Bangalore

Based on the works of Pt. Shriram Sharma Acharya

“Vishwa ko Bharat ke ajastra anudaan”

<http://www.awgp.org>

<http://bangalore.awgp.org>