

# Parallax Between Science and Gita

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# **A Miracle in History Happened in this part of the world**

***India conquered and  
dominated South East Asia,  
China, Japan and Asia  
culturally for 20 centuries  
without ever having to send  
a single soldier across her  
border.”***

# Hindu Imprints

## Lord Ganesha and Garuda on Indonesian Currency–year 1998



Garuda Airways, Indonesia



Wat Angkor, Cambodia, World's largest Temple Complex

Olympic Game  
'Thai Kick Boxing'  
is based on  
Vali Sugeerv Yudh







***Samudra Manthan Scene from Hindu Puranas at  
Swarna Bhumi Airport in Bangkok, Thailand.***

# Hindu Imprints in China



**Hu Shih,**

former Ambassador of China to USA

(1891-1962):

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



**Lin Yutang,**

Author of the book 'Wisdom of India'

(1895-1976):

*"India was China's teacher in religion and imaginative literature, and the world's teacher in trigonometry, quadratic equations, grammar, phonetics, Arabian Nights, animal fables, chess, as well as in philosophy, and that she inspired Boccaccio, Goethe, Herder, Schopenhauer, Emerson, and probably also old Aesop."*



# Similarities with Greek mythology



Hercules (Herakles) fighting  
the Lernaean Hydra



Krishna fighting the  
Kaliya Serpent

# Hinduism Appreciated World-Over

# Golden Age of Hinduism



**Chinese PM Wen Jiabo**  
recited 'Aum Sahana  
Vavatu' before Chinese  
Politburo



**South Africa President  
Thabo Mbeki** recited On 6  
Sept 2003, Vedic Mantra  
'Sangachhadvam'  
at Durban University



**Egypt, wife of Prez**  
**Anwar Sadat** promotes Yoga,  
learnt from Raj Yoga center  
Ajmer



**Bahrain, Sultan**  
with Pramukh Swami



**Sri Sri Ravi Shankar**  
with Iraq PM Nouri Al Maliki  
- Baghdad - 22 May 2007

**PM of Italy Benitto Craxi**  
Visits Satya Sai Ashram  
at Puttaparthi



**France Prez**  
**Jacque Chirac's wife**  
devotee of Kashi Viswanath



**Russian Prez Yeltsin's**  
wife Naina &  
daughter Tatiana  
conduct yoga classes



**UK Prince Charles**  
visits London  
Swami Narayan Temple



**Canadian PM Max Mulrony's**  
two sisters have taken Diksha  
from a Himalayan Guru





# Golden Age of Hinduism



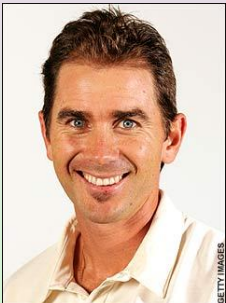
**Diwali Singapore**  
**Lighting**  
**Little Madras**



**Diwali Australia,**  
**Lighting**  
**Canberra Parliament**



**US-Atlanta –**  
**Enormous Hindu Temple complex**  
**Swami Narayan Temple**



**Australia**  
**defeated India in 35 Years**  
**By Practicing Yoga**



**Lord Nataraja at CERN, Geneva**  
**"It is the clearest image of the activity**  
**of God which any art or religion can**  
**boast of" ...**

Parallax Between Science and  
Gita

**Diwali Canada**  
**Lighting Parliament**



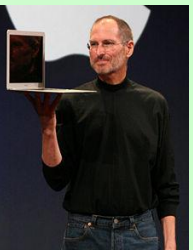
**Diwali USA**  
**Lighting White House**



**Diwali Barbie**  
**USA**



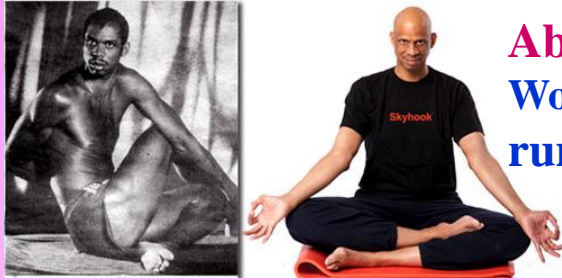
**Steve Jobs, USA**  
**Ipod, Iphone, Apple**  
**Computers Wears**  
**Kurta, Pyjama, Dhoti**



**Venky Ramakrishnan**  
**USA**  
**Noble Prize 2009**



# Golden Age of Hinduism



**Abdul Kareem Jabbar**  
World Basket Ball champion  
runs Yoga college



**Madonna**  
Practices Yoga and  
sings Sanskrit Hymns



**Julia Roberts**  
Oscar winning actress  
takes to Hinduism  
Children Maha Laxmi,  
Ganesh, Krishna Balram



**Ayuvedic Burqa,**  
Popular in  
Saudi Arabia

## Quincy Jones

Oscar Award winning  
Music Director cured  
Malignant Tumor with  
Yoga & Meditation



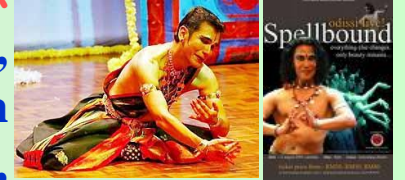
## US Senate

& State Parliaments inaugurate  
with Vedic Chantings



**Ramli Ibrahim &  
Chandra Banu,**  
Malaysian

Bharata Natyam Expert,



**Alfred Ford**  
USA

spreads Hinduism,



**Raam Currency**  
Holland & USA

1 Raam = 10 Euro \$,

Parallax Between Science and  
Gita



# **Bharat (India)**

## **2<sup>nd</sup> Fastest**

### **Rate of Growth**



# ***Incredible India - Do You Know...***

1. India is No.1 in Remote Sensing Camera
2. India is one of the FOUR countries that produces SUPER COMPUTERS.
3. India has the Fastest Super Computer in Asia
4. India is one of the FOUR countries that has the Fast-Breeder Reactors.
5. India is one of the FOUR countries that have landed on the Moon.
6. India is one of the SIX countries that have Satellite Technology, Rocket Launching capabilities, **ICBMs** & Cryogenic Engines.
7. Bharat is one of the Nine Countries that have conducted Nuclear Tests.

# Do you Know that India is No1 in ...

1. India is No.1 in Software Development
2. India is No. 1 in Call Centers
3. India is No. 1 in BPOs
4. India is No. 1 in KPO (Knowledge Process Outsourcing)
5. India is No. 1 in LPO (Legal Process Outsourcing)
6. Bangalore has maximum Software Engineers
7. India is No. 1 in Youth Power  
and will remain so for another 30 years.
8. India is No.1 in Diamond Cutting.
9. India is No.1 in Tea & Milk Production.
10. Hero Honda produces maximum Motorbikes
11. Bharat Forge is the largest Forging Co in the world.

# **Do you Know that .....**

1. India is No.2 in Truck Manufacturing,
2. India is No.2 in Rice and Wheat Production.
3. India is No.2 in Vegetables and Fruits Production.
4. India is No.4 in Pharmaceuticals Production.
5. India is No.5 in Commercial Car Production.
6. India is advancing fast in Mobile Phones, Automobiles, Pharmaceuticals, Ayurveda, Machineries, Research and Developments, Satellites, Super Computers,



# Definition of Parallax & Paradox

# Parallax – Definitions

## Encarta Dictionary

### 1. apparent change of position:

an apparent change in the position of an object when the person looking at the object changes position.

### 2. angle measuring star's distance from Earth:

the angle between two imaginary lines from two different observation points meeting at an astronomical object, used to measure the object's distance from Earth.

# Parallax View – Definitions

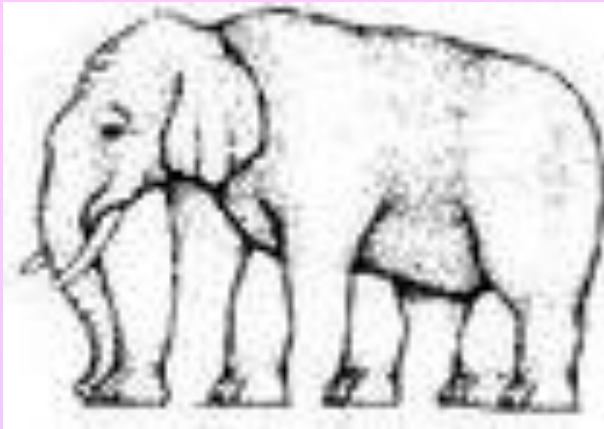
## Encarta Dictionary

### Parallax View

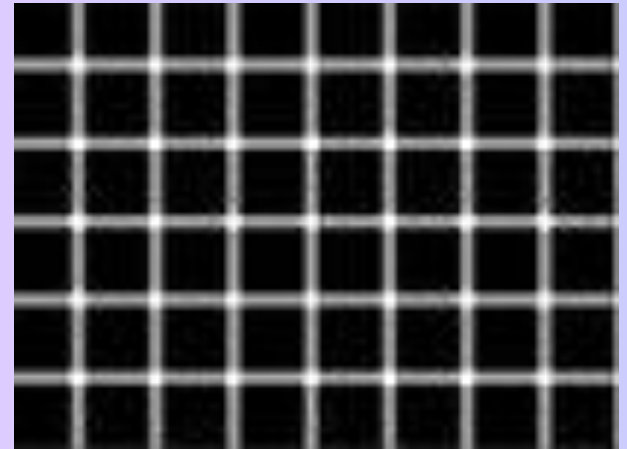
**unique viewpoint:** a viewpoint from which you can observe and study something or somebody from a new angle, thus gaining insights unavailable before.



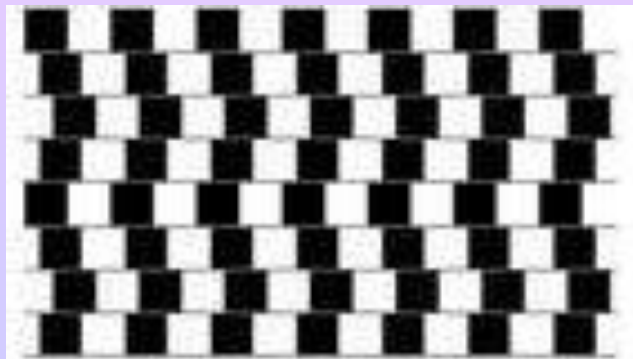
# Famous Parallaxes



**How Many Legs the Elephant has?**



**Count the Black Dots**



**Are the Lines Parallel**



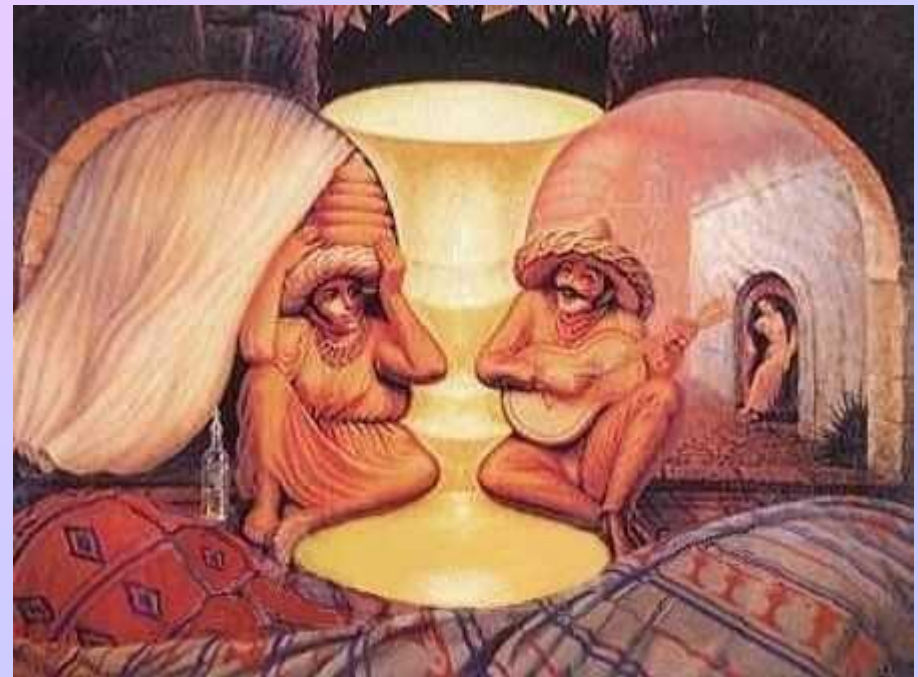
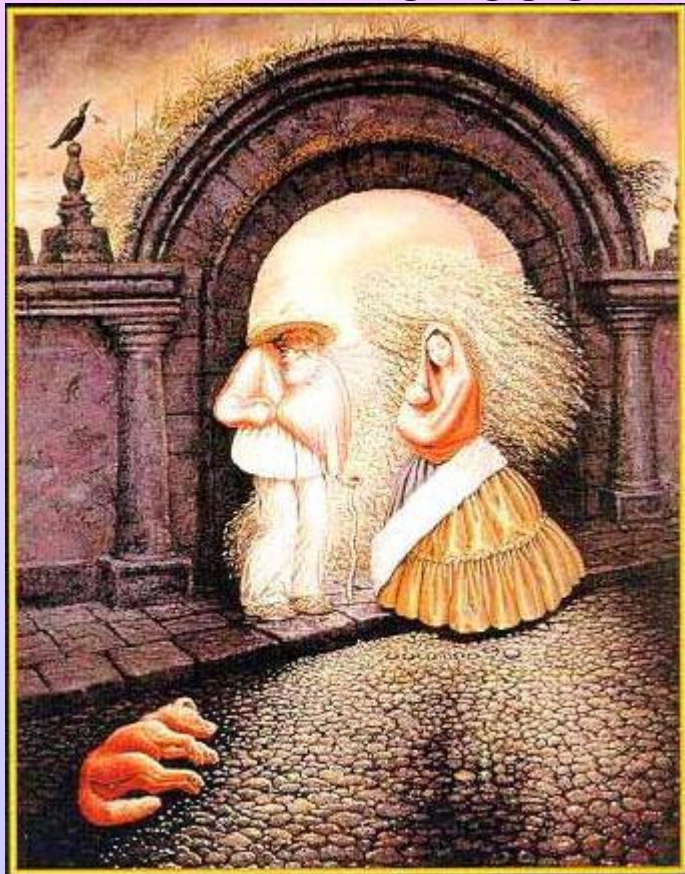
**Is it Rabbit or Duck**



# Famous Parallaxes

Is it an American Native Looking Left side  
or an Eskimo walking Right side

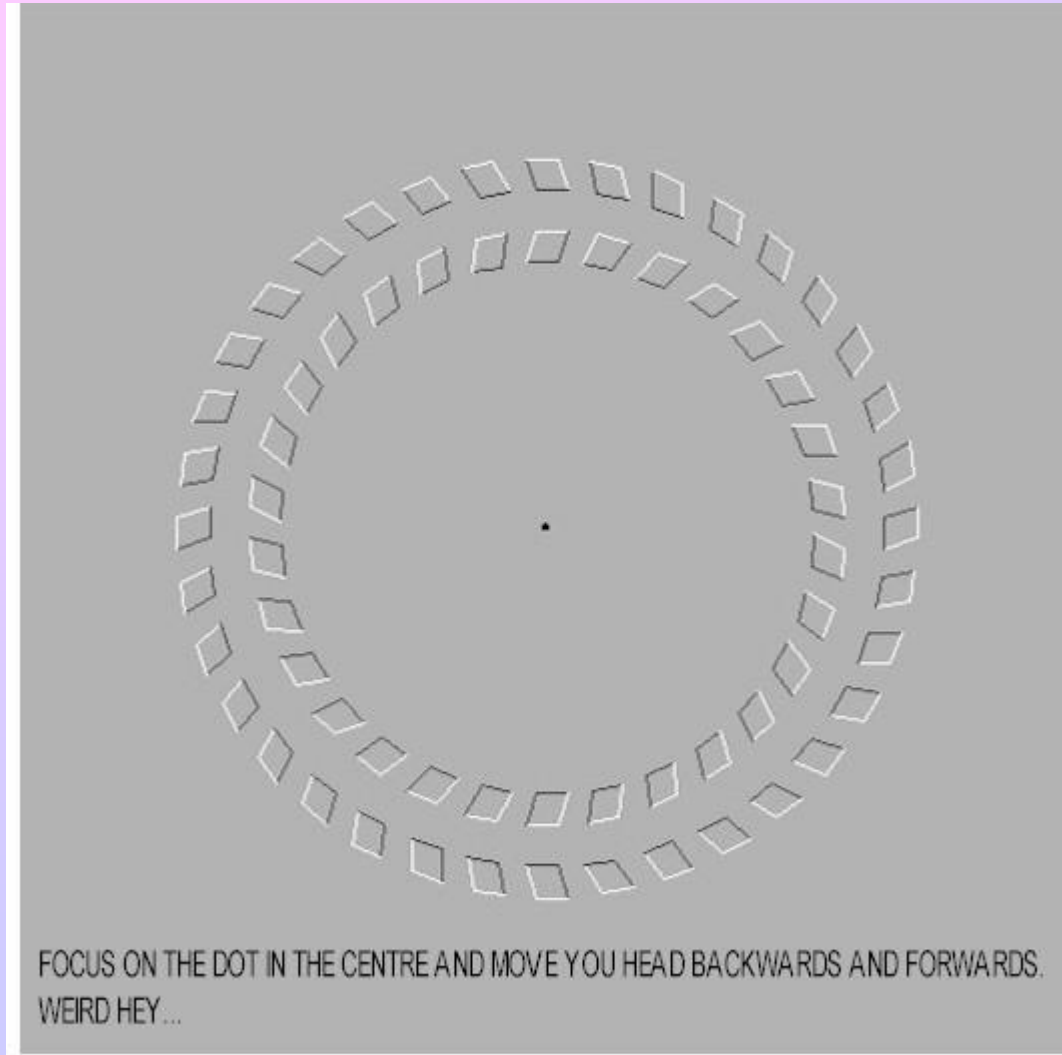
**DO YOU SEE FOUR PEOPLE?**



Parallax Between Science and  
Gita

# Famous Parallaxes

A face? ... Or, the word 'liar'



# Famous Parallaxes

Who is the tallest?





# Famous Nyaya Sutras on Parallaxes

**1. Rajju-Sarpa-Nyaya** Snake is super-imposed on Rope

**2. Shukti-Rajata-Nyaya** Mother of Pearl is not Silver

**3. Akasha-Nilima-Nyaya** Sky appears to be Blue

**4. Stambha-Nara-Nyaya** (Man in the post).

These illustrate the superimposition of the unreal on the real.

**4. Mriga-Trishna-Nyaya**

In the desert a traveler sees at noon a mirage where water, meadows, trees and mansions are seen. He believes the sight to be a true one and pursues the spot.

**5. Kanaka-Kundala-Nyaya** Ornaments are many Gold is one

**6. Mrittika-Ghata-Nyaya** Pots, Jars are big & small– Mud is 1

**7. Surya-Bimba-Nyaya** Sun is one but its shadows in mirriors, waters, tanks ponds are as many

# Famous Stories on Parallaxes

- 1. Kallai Kandal Naayai Kanavillai    Dog & Stone**
- 2. Marathai Maraithathu Mamada Yanai  
Elephant & Wood**
- 3. Bhasmasur – Midas Touch**
- 4. Farmer kills the Goose that laid Golden Eggs**

# Parallax Jokes

- 1. Why are you driving so fast?  
Break has failed.  
Let us reach home before an Accident occurs.**
- 2. If you do NOT have a Girl Friend, ..  
You are missing SOME thing in your life.  
If you HAVE a Girl Friend, ...  
You are missing EVERY thing in your life.**
- 3. “Nobody ever has complained  
that our Parachutes don’t work”.**

# Famous Stories on Parallaxes

1. Ayodhya Prince Ram went to Forest for 14 yrs  
Delhi Prince arrested his father & killed his brothers
2. Eat mango in a place where no one will see.  
A dalit student Kanakadas did not eat. !!
3. Siddhartha treats a bird shot at by Devadutta.  
To whom does the bird belong?
4. Shabari gives half eaten fruits to Ram –  
Ram is happy, Laxman is angry.
5. Lord Krishna enjoys the banana skin given by  
Vidurani and pounded rice by Sudama (Kuchelar)



# Famous Paradoxes (No solutions)

1. Original Copy
2. Nearly Perfect
3. Working Vacations
4. Extensive Briefing
5. Work Party
6. Jumbo Shrimp
7. Clearly Confused
8. Mulayam Singh
9. Responsible Journalism



**Stairs**



Once a Barber lived in Vichitra Puram. All the men in the town either shaved themselves or were shaved by the barber. And the barber only shaved the men who did not shave themselves. **Did the Barber shave himself?**

# Famous Paradoxes (No solutions)

There is no egg in eggplant,

No ham in hamburger;(Ham – Pig, Hamburger – Beef)

Neither Apple nor Pine in Pineapple.

English muffins weren't invented in England or  
French fries in France.

Sweetmeats are candies and not Meats.

Sweetbreads are meat and are not sweet.

Quicksand can work slowly,

Boxing rings are square

Guinea pig is neither from Guinea nor is it a pig.

# Definition of Science

# Science – Definition

## Microsoft Encarta

**Science is systematic study of anything that can be examined, tested, and verified.**

**The word *science* is derived from the Latin word *scire*, meaning “to know.”**

**From its early beginnings, science has developed into one of the greatest and most influential fields of human endeavor. Today different branches of science investigate almost everything that can be observed or detected, and science as a whole shapes the way we understand the universe, our planet, ourselves, and other living things.**

# Science – Definition

## Microsoft Encarta Dictionary

**something studied or performed methodically:**

**an activity that is the object of careful study or that is carried out according to a developed method.**

***Eg. the science of dressing for success***



# Quotations on Science

1. Science may set limits to knowledge, but should not set limits to imagination. Bertrand Russell
2. Aristotle maintained that women have fewer teeth than men; although he was twice married, it never occurred to him to verify this statement by examining his wives' mouths. Bertrand Russell
3. The scientific theory I like best is that the rings of Saturn are composed entirely of lost airline luggage.
4. If it weren't for electricity we'd all be watching television by candlelight.
5. As long as algebra is taught in schools, there will be prayers in the world.

**According to Gita,  
true Knowledge is integration of  
Science (external knowledge) with  
the Knowledge of the Self.**

***ksetra-ksetrajnaya jñānam  
yat taj jñānam matam mama BG 13.2***

**To understand this body and  
its knower is called knowledge.  
That is My opinion.**

# **Srimad Bhagwad Gita is Synthesis for Spiritual Development of**

- **Manliness and Godliness**
- **Science & Spiritualism**
- (Knowledge of the external world) &  
Knowledge of the Self)
- **Materialism & Spiritualism**
- **Action, Emotion & Intellect**

# **Bhagwad Gita is Scientific & More**

**Subject matter of Bhagwad Gita is both world around us and our own mind. It helps us to look at objects with a scientific intellect and at our own mind with an ethical and moral outlook.**

**Science is materialistic while Gita has both materialism and spiritualism integrated in it. Because of its integrated approach Gita has more than one solution for all the problems of all times and climes and has given Bhagwad Gita eternal life and relevance. In fact the parallax in science is Ego which is corrected in Bhagwad Gita.**

# Achievements of Science

It took us

**Centuries** from the **Printing Press** to the **Telephone**,  
**Decades** from the **Telephone** to **Personal Computer**, &  
**Only a Few Years** from **Personal computer** to **Internet**.

What seemed impossible a few years ago is already outdated, and we can  
Scarcely fathom the changes that are yet to come.

We will crack the **Genetic Code**.

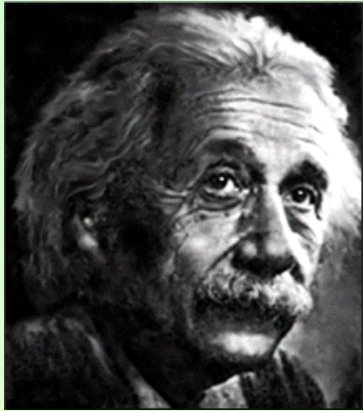
We will **Cure the Incurable**.

We will **Lengthen our Lives**.

We will find a **Cheap Alternative to Fossil Fuels** and  
**Clean up the Planet**.



# Quotations on Gita by Scientists



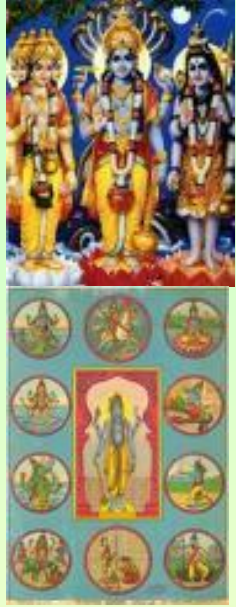
***When I read the Bhagavad-Gita and reflect about how God created this universe everything else seems so superfluous.***  
***Albert Einstein***



***A millennium before Europeans were willing to divest themselves of the Biblical idea that the world was a few thousand years old, the Mayans were thinking of millions and the Hindus billions.***  
***Carl Sagan***

# Hindu Theories of Creation

## Bhagwad Gita Chap 8, Shloka 17



190; axi ; Zureg; Zn^czä. kk  
= fonq/AA  
jkf=a ; ax190kUrka  
re · gksjk=fonks tuk/AA

*sahasra-yuga-paryantam  
ahar yad brahmano viduh  
rätrim yuga-sahasrântäm  
te 'ho rätra vido janäh*

BG 8.17

By human calculation, a thousand ages taken together  
form the duration of Brahmä's one day.  
And such also is the duration of his night.

# Calculating Day & Night Time of Brahma

432,000	Human Years	1 Kali Yug
864,000	(Twice Kali Yug)	1 Dwapar Yug
1296,000	(Thrice Kali Yug)	1 Treta Yug
1728,000	(4 Times Kali Yug)	1 Satya Yug
4,320, 000	(sum total of 4 Yugas)	1 Maha Yug

**4.32 Million Years = 1 Maha Yug**

**1 Day Time of Brahma = 1 Night Time of Brahma**  
**= 1 Kalpa**  
**= 1,000 Maha Yugas**  
**= 4.32 Billion Years**

**By human calculation, a thousand ages taken together form the duration of Brahmā's one day.**

**And such also is the duration of his night. BG 8.17**

# Calculating 100 Years of Brahma

**1 Full Day Time of Brahma**

$$\begin{aligned} &= 1 \text{ Day} + 1 \text{ Night Time of Brahma} \\ &= 8.64 \text{ Billion Human or Solar Years} \end{aligned}$$

$$\begin{aligned} \text{1 Year of Brahma} &= 360 \times 1 \text{ Full Day of Brahma} \\ &= 3110.40 \text{ Billion Years} \\ &= 3.1104 \text{ Trillion Years} \end{aligned}$$

$$\begin{aligned} \text{100 Years of Brahma} &= \text{Maha Kalpa or Brahma Ayu} \\ &= 311.04 \text{ Trillion Years} \\ &= 311,040,000,000,000 \text{ Solar Years} \end{aligned}$$

**We are now in the 51 year of Brahma**

# Why is 108 a Holy Number ?

*Magic of 108. Hindus consider 108 as a holy number.*

**WHY?**

***108 =***

*Diameter of Sun      Diameter of Earth*

*Distance between Sun and earth      Diameter of Sun*

*Distance between Earth and Moon      Diameter of Moon*

# Why is Lord Vishnu called Jagadish?



Jagadish = Jagat Ish  
= Lord of the Universe

JaGat = Universe

Ja Gata = That which Moves



Cosmic  
Dance  
of  
Shiva

Why is Lord Vishnu, the Lord of the Universe called the Lord of that which Moves

In this Universe, from the tiniest electron to Farthest Star every thing is in Motion and hence Lord Vishnu is called the

**Lord of Motion.**



# Circulatory System of Blood



*The word Hridaya which means Heart occurs in Vedas at several places*

*According to Nirukta, the Vedic dictionary, the word Hridaya is formed from three words*

*Hri from Hareti to Receive*

*Da from Dadati to give*

*Ya from Iyati to circulate or move*



*These in fact are the three functions of the Heart which was known to the Vedic seers a few thousand years before the birth of William Harvey*

# Parallax Between Gita & Science

Science	deals with	MOTION (Newton's Laws of Motion)
Gita	deals with	EMOTION
Motion without Emotion may lead to COMMOTION.		
Science	says	Avoid TENSION
Gita	says	Pay ATTENTION & do Meditation
Science	Talks of	IQ (Intellectual Quotient)
Gita	Talks of	EQ (Emotional Quotient)
Gita		SQ (Spiritual Quotient)
Gita		CQ (Creativity Quotient)
Science	Tries to control	NATURE
Gita	Tries to control	Your own Nature – swabhav i.e. 5 senses

# Parallax Between Gita & Science

**Science works on 2 PLANES –  
BODY (Action) & BRAIN (INTELLECT)**

**GITA Has 4 Planes of Operation**  
**BODY KARMAYOG**  
**MIND BHAKTIYOG**  
**INTELLECT JNANAYOG**  
**SPIRIT DHYANAYOG Meditation**

**Science deals with KARMA/ ACTION / REACTION**  
**Gita deals with KARMAYOG (Attitude)**

**Science deals with JNANA/ INTELLECTUAL Activities**  
**Gita deals with JNANAYOG – Sublimation of EGO**

**Science NO PLACE for BHAKTI / EMOTIONS**  
**GITA TEACHES BHAKTIYOG**

**Science deals with MOTIONS & Gita with EMOTIONS**

**Science leads to Stress, Strain and TENSION**

**Gita relieves you thru ATTENTION / MEDITATION**

# Parallax Between Gita & Science

**Science                      Objective and Ethics-free**  
**Science                      Reductionism / Mechanistic Approach**  
**Everything in the world**  
**is like a machine made of many parts and**  
**To study the world, study the parts**

**Gita      Integration of**  
**Path of Action                      Karma-yog**  
**Path of Devotion                  Bhakti-yog**  
**Path of Knowledge              Jnana-yog**  
**Hence different facets of an individual**

**Rajaji:**

**If Knowledge does not Integrate with Bhakti and issue out as Action, such a knowledge is USELESS TINSEL.**

# **Parallax Between Science & Gita**

## **Popular Beliefs in Western World 1600 – 1900 AD**

### **Reductionism Approach or Mechanistic world view of Cartesian-Newtonian science**

1. Struggle For Existence and Survival of the Fittest
2. High Inflation and Unemployment,
3. Energy Crisis,
4. Crisis in Health Care,
5. Pollution and other Environmental Disasters,
6. Rising Wave of Violence and Crime,
7. Micro Families and Vanishing Family Values
8. Unwed Mothers and Teenage Pregnancies
9. Sleeping Pills and Drugs
10. Threat of Nuclear War that can destroy the world 50 times over.

These are all different facets of **one and the same crisis**, and  
that this crisis is essentially a **Crisis of Perception**.

# Parallax Between Science & Gita

## Popular Beliefs in Western World 1600 – 1900 AD

**Reductionism Approach or  
Mechanistic world view of Cartesian-Newtonian science**

### Modern Families      **4 Ds**

<b>Distance</b>	<b>your</b>	<b>Parents</b>
<b>Disassociate</b>	<b>your</b>	<b>Relatives</b>
<b>Divorce</b>	<b>your</b>	<b>Wife and thereby</b>
<b>Destroy</b>	<b>your</b>	<b>children</b>

**Most Hindu Children are lucky that they return home  
where both their Biological parents live together.**



## World's Shortest Celebrity marriages.

<b>_6 Hours</b>	<b>Rudolf Valentino – Jean Acker</b>
<b>24 Hours</b>	<b>Robin Givens – Syetozar Marinkovic</b>
<b>48 Hours</b>	<b>Britney Spears – Jason Alexander</b>
<b>8 Days</b>	<b>Dennis Hopper – Michelle Phillips</b>
<b>9 Days</b>	<b>Cher – Greg Allman</b>
<b>10 Days</b>	<b>Carmen Electra – Dennis Rodman</b>
<b>12 Days</b>	<b>Robert Evans – Catherine Oxenberg</b>
<b>29 Days</b>	<b>Drew Barrymore – Welshman Jeremy Thomas</b>
<b>32 Days</b>	<b>Ernest Borgnine – Ethel Merman</b>

## Growing Popularity of Vedic Marriages

Several Western couples with their children come to Bharat (Kerala, Pushkar in Rajasthan, Varanasi etc) and re-marry in a Hindu temple in a traditional Hindu way to ensure that their marriages last longer.

# Pierre Bayle Argues for Tolerance

1697

French philosopher Pierre Bayle argues against dogma and superstition in his *Historical and Critical Dictionary*.

The French Huguenot (Member of Protestant Reformed Church of France), asserts that **since everything may be doubted, all things should be tolerated.**

Hundreds of thousands of Huguenots fled France after the revocation of the edict, a promise of religious tolerance promised the French Huguenots by Henry IV at the end of the 16th century.

# **Bhagwad Gita on Tolerance**

## **Unity in Diversity**

*sarva-bhūtesu yenaikam  
bhāvam avyayam ikshate  
avibhaktam vibhaktesu  
taj jñānam viddhi sāttvikam BG 18.20*

### **Chapter 18**

#### **Conclusion - The Perfection of Renunciation**

That knowledge by which one undivided spiritual nature is seen in all living entities, though they are divided into innumerable forms, you should understand to be in the mode of goodness.

**Akaashaat Patitam Toyam ...**

**Lord Krishna tolerated 100 mistakes of Sishupal**

**Parsees, Jews, Bangladeshi Muslims, Tibetan Refugees given asylums.**

**Karuna / Reverence for animals, birds, Plants, Rivers, and even inanimate things.**

**Ganga Mata, Gow Mata, Gita Mata, Bharat Mata, Bhumi Mata,**

**Hindu Empires in South East Asia – No Parallels in the world**

# George Berkeley 1710 CE Principles of Human Knowledge

1710 Irish philosopher George Berkeley  
publishes *Treatise Concerning Principles of Human Knowledge*.

**Believed that sensory perceptions  
are the only objects of knowledge.**

Tamil Veda Tiruk-Kural on Control of Senses  
2,000 Years ago

äiç¶ Üöæiçîlùç Ýøçøô Üèøç öæ²ñç¹÷lôç «èlñlùç  
Piçîæó«ù èl¹⁄²ñ èóæ. Shloka 25

äiç¶ Ý-èè-÷»ñç Üièçèæòòùç öøçô-ñèç¹, Piñç Üèùçø  
«iö«öfèiç-i Ýiçèæ¹óæ»ñç Piçîæó«ù èæøiçî àitóintè  
öæ÷èç¹èæùçølùç. iöiçîæç èæøiçîöóçèç¹iç «i«öiçîæó  
öiöæ»ñç à÷æiæç èæ-ièç¹ñç.

Indira himself has cause to say,  
How great the power Ascetics sway.

# George Berkeley 1710 AD

Tamil Veda Tiruk-Kural on  
Five Senses 2000 years

2-ö ä÷x äÄ æ-è iløçøñ àùçÄ äicîxùç  
 ö-è <sup>a</sup> iôxöùçèic«i àö". 27

2.  $iL$   $iL$

2¬ö, ä÷œ, <sup>a</sup>il'¬è, äöœ, öle¬ù  
 P¬öè÷œùç ðl' ðl' è¬÷ Ûœœiçîöùç äö¬è  
 Ý÷ölnç

They gain the world, who grasp  
and tell

# Berkeley Principles of Human Knowledge – 1710 CE

## Vedanta says

**Manomaya Kosha or The mind-sheath  
consists of**

- **the mind (Manas),**
- **the subconscious (Chitta) and**
- **the five Jnanendriyas or the sense-organs of knowledge.**

# Berkeley Principles of Human Knowledge – 1710 CE And Bhagwad Gita

## Gita Chap – 4 Jnana Karma Sanyasa Yog or Transcendental Knowledge

*sarvam karmākhilam pārtha  
jnāne pari samāpyate*

**BG 4.33**

**All actions culminate in spiritual knowledge.**

*na hi jnānena sadrsam  
pavitram iha vidyate*

**BG 4.38**

**In this world, there is nothing so sublime and pure  
as spiritual knowledge.**

**Shradha-van Labhate Jnanam BG 4.39**

**A Faithful man begets Spiritual Knowledge.**



# **Cartesian-Newtonian Science** **impact on Economics & Politics**

- 1776**            **Capitalism by Adam Smith - Scottish**
- 1820**            **Socialism by Henri De Saint - French**
- 1848**            **Communism by Karl Marx - German**
- 1850**            **Survival of the Fittest**  
                      **Herbert Spencer – British**

# Cartesian-Newtonian Science impact on Economics & Politics

1776      Capitalism by Adam Smith - Scottish

“For at least another hundred years we must pre-tend to ourselves and to every one that fair is foul and foul is fair; for foul is useful and fair is not. Avarice and usury and precaution must be our gods for a little longer still.”      **John Maynard Keynes 1940**

There is enough for man's need but not for his greed.  
                 **Mahatma Gandhi                      1940**

Shad-Ripus are:

Kama, Krodha, Lobha,  
Lust, Anger, Greed

Moha,  
Temptation

Mada,  
Intoxication

Matsara  
Envy

# Cartesian-Newtonian Science impact on Economics & Politics

1820 Socialism by Henri De Saint – French

1989 – 1991 Collapse of Communist regimes USSR and  
East Europe

Capitalism is unequal sharing of blessings and  
Socialism is equal sharing of miseries.

Winston Churchill

All socialism involves slavery. Herbert Spencer

In Capitalism man exploits man;

In communism it is just the opposite.

# Cartesian-Newtonian Science impact on Economics & Politics

1850      Survival of the Fittest – Herbert Spencer – British  
Competition will produce prosperity. (Law of the Jungle)

Government is essentially immoral.

Hero-worship is strongest where there is least regard for human freedom.

No one can be perfectly free till all are free; no one can be perfectly moral till all are moral; no one can be perfectly happy till all are happy.  
(Budha, Adi Sankara did not think so)

When will I be Free?              When “I” cease to be.

I asked God to give me Happiness. God said, No.  
He said, He gives me Blessings. Happiness is up to me.

A man who earns shall eat.  
A man who earns shall Feed.

Cartesian Thinking  
Bhagwad Gita

# Cartesian-Newtonian Science impact on Economics & Politics

## Parallax between Science and Gita and Hindu Values

Artha                      Economic Prosperity

Kama                     Pursuit of Happiness

Should be tempered by Dharma and lead to Moksha

Na Jaatu Kaamat na Bhayaat, na Lobhaat,  
Dharmam Tyajet. Jeevatsyapi hetoho. Dharmo  
nityam, sukha dukhe anityam.

**Bheeshmacharya in Mahabharat**

# Cartesian-Newtonian Science impact on Economics & Politics

## Parallax between Science and Gita and Hindu Values

### Dharma

Duties	Pitru Dharma / Matru Dharma
Properties	Agni Dharma
Basic Nature	Swa-Dharma
Rules	Sadak Dharma
Charity	Dharma-vaan, Dharma-karya
Impartial	Dharma Raj / Dharma Kanta
Harmony	Samaj Dharma
Partner in Rituals	Dharma Patni
Law/ Governance/ Justice	Raja Dharma
Asrama Dharma	Stages of Life
(Brahmacharya, Grihastha, Vaanaprasti, Sanyasa).	

# Cartesian-Newtonian Science impact on Economics & Politics

## Parallax between Science and Gita and Hindu Values

Dharma

Gandhari said: Yato Dharma, Tato Jayaha.

Aahar inad' a BayamaDgaunaM ca  
saamaanyamaott\ pSaviBana-raNaama\ a  
QamaaO- ih toYaama\  
AiQakaOivaSaoYaao QamaaO-Na hInaa:  
pSaviBa: samaanaa: aa

Eating (or things needed for survival), sleep, fear from somebody and sex life (for reproduction), these habits are common between human beings and animals.

(in this respect we cant differentiate between man and animal).  
it is "dharma" which is additional important quality of man, without which he is same as an animal.

Raam goes to Vanavaas for 14 years smilingly

Bharata rules from Nandigram keeping sandals of Raam on throne.

Malaysia – Ministers oath – URUSAN Serj Paduka Beginda.

Pandian Nedunchezhiyan & Quen Kopperun Devi kill themselves.

Parallax Between Science and  
Gita



# **Exploitation of Nature**

## **Folly of Cartesian Thinking**

### **Swine Flu H1N1 in Egypt**

**The authorities killed all Swines (Pigs) in Egypt  
Today the city is stinking with all the rubbish  
which the Pigs used to eat and clean.**

### **Frogs Killed in India to export to China**

**Locusts increased in numbers and  
destroyed the crops. These were being  
eaten by the Frogs earlier.**

# Newtonian Science, Philosophy & Gita

## Science and Philosophy

grows through Hardwork (ACTION = KARMA) and through Intellect (JNANA).

But they have no need for MIND. (Never MIND)

Science is Objective and Ethics-free.

But the Power of the Mind is far beyond Intellect.

<b><u>Gita</u></b>	is an integration of	
<b>KARMA-YOG</b>	<b>Path of Selfless Action</b>	
<b>JNANA-YOG</b>	<b>Path of Spiritual Knowledge</b>	<b>&amp;</b>
<b>BHAKTI-YOG</b>	<b>Path of Devotion</b>	

Hence different facets of an individual are given due importance.  
Gita serves as a Blue Print for overall Personal Development.

**Hence**

**Gita is considered Gita-Mata or “Mother Gita”**

# Parallax Between Science & Society

## Popular Beliefs in Western World till 1600 AD

### Earth

is Flat  
stands on 4 Pillars  
has 4 corners  
was created at 9.00 AM on 25<sup>th</sup> Feb 4004 BC  
is the Center of the Universe

### Sun

was created after Earth  
Goes round earth – rises in east, sets in west

### Creation

of earth, sun, stars, Plants, animals, man  
took place in 6 days

### Man

Greatest Creation in Universe

### Nature

Created for Man's Enjoyment

### Woman

Created for Man's enjoyment, She has no Soul

# Parallax Between Science & Western World View

## Woman

created for Man's enjoyment

She has no soul                      Man can exploit woman

are inferior to men

She has only 28 teeth (Archemedes)

Woman should suffer pain

Chloroform should not be administered to  
women to relieve pain

Midwives should not ease the labor pains

women should not teach

had no Universal Franchise (voting rights)  
till 1944

In **Thomas Hardy's Mayor of Casterbridge**, (1886)

the hero Michael Henchard auctions and sells his  
young wife Susan and daughter Elizabeth Jane  
for 5 guineas to a sailor Mr. Newson.

# **Parallax Between Science, Western World View & Hindu Shastras**

## **Newton-Galileo Science**

**Made a mincemeat of the Western World-View**

## **Ancient Hindu Science**

**Highly advanced even by today's standard eg.  
Hindu Jyotis Sastra (Astronomy), Ayurveda,  
Yog & Meditation, Psychology, Rules of Grammar,  
Vastu Sastra,**

# **Parallax Between Science, Western World View & Hindu Shastras**

## **At the Beginning of 20<sup>th</sup> Century**

### **Newton-Galileo Science**

**Made a mincemeat of the Western World-View**

**Thought it can do the same with Hinduism**

## **At the End of 20<sup>th</sup> Century**

**Newton-Galileo Science and Cartesian Reductionism World-Views**

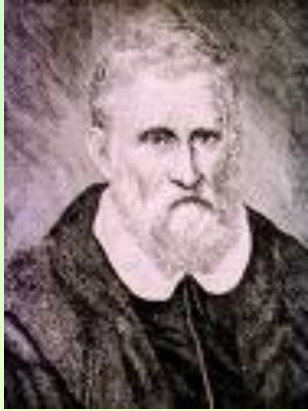
**are being replaced by**

**Quantum Physics and**

**HOLISTIC World-View which is similar to**

**World-View of Bhagwad Gita**

# Visits to India that changed Western World View



**1275 AD**      **Marco Polo of Venice**

visited Asia– described India as the richest country

**Took Camel loads of Books from Bharat**

**1498 AD** **Vascoda Gama,**  
**sailor from Portugal.**

Reached India with the help of a Gujarati sailor.

**Took ship loads of Sanskrit Books**  
**on Hindu Sciences.**

**Indian books on Astronomy, Mathematics,**  
**Calculus flood European Universities**





# Events that changed Western World View



## Gregorian Calendar by Pope Gregory

**XIII** (1502 – 1585 CE)

**1582 Changes in European Calendar brought with the help of Sanskrit Books on Hindu Panchang.**

the day after Thursday, 4 October, 1582 would be not Friday, 5 October, but Friday, 15 October, 1582. Pope Gregory XIII issued the **papal bull** *Inter gravissimas* to promulgate the new calendar on 24 February, 1582. On 15 October, 1582, this calendar replaced the Julian calendar, in use since 45 BC, and has become universally used today. Because of his decree, the reform of the Julian calendar came to be known as the Gregorian calendar.

## Printing Press

**Johannes Gutenberg 1440 AD – Germany**



# Growth of Science in Europe after Vasco Da Gama's Visit to Bharat



**Polish astronomer Nicolaus Copernicus d. 1543**

***On the Revolution of Celestial Spheres, which was published just before his death in 1543.***



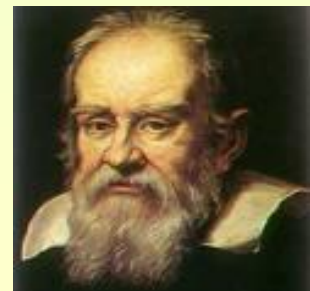
**Johannes Kepler – German (1571 – 1630 CE)**  
**1595 CE The Cosmographic Mystery (Laws of Planetary Motion)**



**Giordano Bruno, 1600 AD Italy, Astronomer**

**Believed in the plurality of worlds.**

**His tongue in a gag, he was tied to a pole naked and burned at the stake, on February 17, 1600.**



**Galileo Galilei Italy - Father of Modern Science - Astronomer, 8 January 1642 – His eyes gouged out, he was kept under house arrest for saying ‘E pur si mouve’ (Earth still moves. It is not stationary).**

# Growth of Science in Europe after Vasco Da Gama's Visit to Bharat



**Sir Isaac Newton**, (1643-1727)

believed that gravity caused the planets to revolve about the Sun, and credited God with the design, yet his religious views are generally considered heretical.



**Wilhelm Leibniz**, (1646 -1716)

German Invented Calculus

# Indian inventions

## Indian inventions

1. Bodhayan( BC 1000)  
Diagonal square theorem

2. Varahamihir (488-587AD)  
Tri-Lostaka

# European Equivalents

## Foreigners` claims

Pythagoras theorem  
(BC 540)

B.Pascal (1623-1662 AD)  
Pascal triangle.

```
      1
     1 1
    1 2 1
   1 3 3 1
  1 4 6 4 1
 1 5 10 10 5 1
```

***Chandas Shastra***, an Ancient Indian book on Sanskrit prosody written by **Pingala** between the **5th and 2nd century BCE**.

While Pingala's work only survives in fragments, the commentator **Halayudha, around 975**, used the triangle to explain obscure references to *Meru-prastaara*, the "Staircase of Mount Meru".

# Indian inventions

# Foreigners` claims

## Indian inventions

3. Brahmagupta (628 AD )

$$N x^2 + 1 = y^2$$

Pell's equations were studied as early as  
They were mainly interested in the equation

$$x^2 - 2y^2 = 1$$

because of its connection to the square root of two. Indeed, if  $x$  and  $y$  are integers satisfying this equation, then  $x / y$  is an approximation of  $\sqrt{2}$ . For example, **Baudhayana** discovered that

$$x = 17, y = 12 \quad \& \quad x = 577, y = 408$$

are two solutions to the Pell's equation, and give very close approximations to the square root of two.

## Foreigners` claims

John Pell (1610-1685)

Pell's equation.

1000 BC in India.

# Indian inventions

# European Equivalents

## Indian inventions

## European Equivalents

4. Virahank's (600AD) series

Fibonacci series (1170-1250)

0,1,1,2,3,5,8,13,21.....

The Fibonacci sequence was well known in ancient India, where it was applied to the metrical sciences (prosody), long before it was known in Europe.

Developments have been attributed to Vedic Scholar Pingala (400 BC), Virahanka (6th century AD), Gopāla (c.1135 AD), and Hemachandra (c.1150 AD).

The motivation came from Sanskrit prosody, where long syllables have length 2 and short syllables have length 1. Any pattern of length  $n$  can be formed by adding a short syllable to a pattern of length  $n - 1$ , or a long syllable to a pattern of length  $n - 2$ ; thus the prosodists showed that the number of patterns of length  $n$  is the sum of the two previous numbers in the sequence. Donald Knuth reviews this work in The Art of Computer Programming.

# Indian inventions

## 5. Mahavira formula(850 AD)

for combinations  $nCr = \frac{n!}{r!(n-r)!}$  ( ! stands for factorial)

## 6. Bhaskaracharya (1114-1193)

Formula for relative difference (retrograde motion)

## 7. Madhav's theorem(1340-1425)

$x = \tan x / 1 - \tan^3 x / 3 + \tan^5 x / 5 - \dots$

## 8. Madhav's series

$\pi = 1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \dots$

## 9. Narayan Pandit (1356 AD)

factorization method for divisors of a number

## 10. Bhaskaracharya (1114-1193)

method of finding greatest common divisor

## 11. Permeshwara's (1360 AD)

Formula for finding circum-radius of a cyclic quadrilateral

# Foreigners' claims

## Herigone's formula(1634 AD)

## Rolle's theorem(1652-1719)

## Gregory Series(1638-1675)

## Leibnitz's expansion (1646-1716)

## Fermat's result (1601-65)

## Euler's division algorithm

## Huiler's formula (1782AD)



# Indian inventions

12. Nilkanth Somyaji (1444-1545)  
Summations  $\sum n$ ,  $\sum n^2$  and  $\sum n^3$

13 Nilkanth Somyaji (1444-1545)  
r sine rule  $a / \sin A = b / \sin B = c / \sin C$

14. Brahmagupta (628 AD)  
volumes of frustum of cone and of pyramid

15 Jyeshtha Deo (1500 AD)  
formulae for  $\sin(x+y)$  and  $\cos(x+y)$  in the text '*Yuktibhasha*'

16 Jyeshtha Deo (1500 AD),  
Linear equations,

17 Jyeshtha Deo (1500 AD)  
volume and surface area of a sphere

18. Shankar Variar (1500-60)  
Values of  $\pi/4$ ,  $\pi/16$  in series

# Foreigners` claims

Euler`s results (1707-1783)

Euler`s results

Kepler

Euler

Liebnitz (1646-1716)

Liebnitz, by method of integration

Gauss(1777-1855)

# **Bharateeya MATHEMATICIAN TIME PERIOD**

Baudhayana (1,000 B.C.E.)  
Apastamba (600 B.C.E.)  
Katyayana (500 B.C.E.)  
Umaswati (150 B.C.E.)

Aryabhata (476-c. 550 C.E.)  
Varahamihira (c. 505-c. 558)  
Brahmagupta (c. 598-c. 670)  
Govindaswami (c. 800-850)  
Mahavira (850 C.E.) (Mahaviracharya)  
Pruthudakaswami (850 C.E.)

Sridhara (900)  
Manjula (930)  
Aryabhata II (950)  
Prashastidhara (958)  
Halayudha (975)  
Jayadeva (1000 C.E.)

Sripathi (1039 C.E.)  
Hemachandra Suri (b. 1089)  
Bhaskara (1114-c. 1185)  
Cangadeva (1205)

Madhava of Sangamagramma (c. 1340-1425)  
Narayana Pandit (1350)  
Paramesvara (1360-1455)

Nilakantha Somayaji (1455-1555)  
Sankara Variar (c. 1500-1560)  
Narayana (c. 1500-1575)  
Jyesthadeva (1550)  
Acyuta Pisharoti (c. 1550-1621)  
Putumana Somayaji (c. 1660-1740)  
Jaganath Pandit (1700)  
Sankara Varman (1800 C.E.)

# **Kerala MATHEMATICIANS**

## **Who Influenced Newton, Leibniz**

Madhava of Sangamagramma (c. 1340-1425)•  
Narayana Pandit (1350)  
Paramesvara (1360-1455)

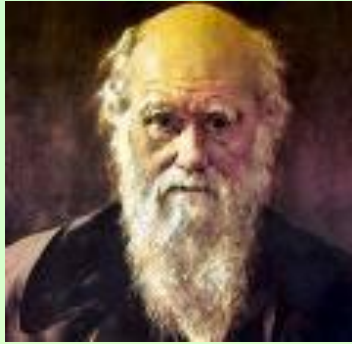
Nilakantha Somayaji (1455-1555)  
Sankara Variar (c. 1500-1560)  
Narayana (c. 1500-1575)  
Jyesthadeva (1550)  
Acyuta Pisarati (c. 1550-1621)  
Putumana Somayaji (c. 1660-1740)  
Jaganath Pandit (1700)  
Sankara Varman (1800 C.E.)

They have discovered many theorems. Many of their theorems are now known in the names of Newton, Gauss, Taylor, Euler, Gregory, Leibniz and Demoivre .

- These were discovered and written minimum 250 to 700 years before western scientists, by the Kerala mathematicians or some other Indian mathematicians like Vateswaracharya in their Sanskrit books which are available even now in the printed form with English translation.

# Parallax Between Science & Western World

## Charles Darwin



**1859 – Origin of Species –  
Evolution Theory is similar to  
Dashavataram  
Opposed by Western Theosophists**

## Herbert Spencer - UK

**1850 coined Survival of the Fittest**



**Thomas Huxley – Bishop Samuel Wilberforce  
Debate**

**30 June 1860- Oxford Evolution Debate at  
Oxford University Museum**

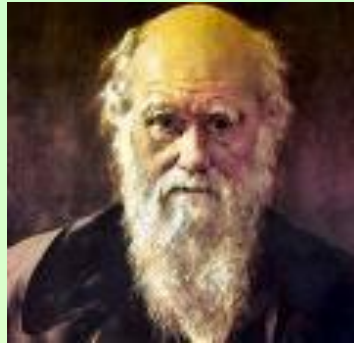


## John Scopes Trial – USA

**1925 (Monkey Trial)**

**Fined US\$ 100 for teaching Origin of Species in Schools**

# Similarities Between Dashavataram & Darwin's Theory of Evolution



## Charles Darwin

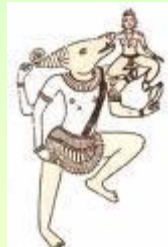
**1859 – Origin of Species – Evolution Theory is similar to Dashavataram  
Opposed by Western Theosophists**



**Matsya**



**Kurma**



**Varaha**



**Narasimha**



**Vamana**



**Parashuram**



**Ram**



**Krishna**



**Buddha**



**Kalki**

# Clash Between Ethics & Western World-View



**Hypatia of Alexandria 415 AD. Mathematician.** was stripped naked, dragged through the streets, stoned and skin scraped off with tiles and bits of shell, tore her limbs and burnt alive.



**Joan of Arc, May 30, 1431. French warrior and saint.** burned at the stake by the English when she was nineteen years old. Her bones were reburied to make sure. 24 years later she was declared innocent and martyr. She was permitted in heaven in 1909 and in 1920 declared a saint.



**5 Million (5,000,000) Midwives** hunted and burnt at the stakes during 1400 - 1700 AD.

**They provide health-care for women, especially during pregnancy and child birth.**

**"Millions of innocent men, women and children have been burnt alive as witches"**

**Thomas Jefferson  
1801 AD**





# Quantum Physics Science of the 20th Century

**“Science, in its most advanced stage now, is closer to Vedanta than ever before.”**

**Alfred North Whitehead**  
**British Mathematician**

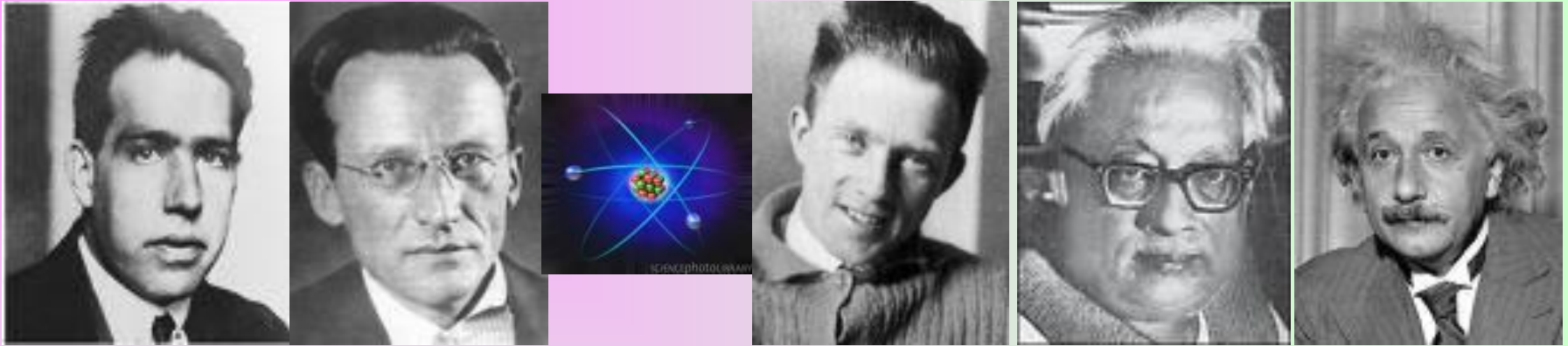
# Science in the 20th Century

**“Science, in its most advanced stage now, is closer to Vedanta than ever before.” Alfred North Whitehead**

- |                                 |                |                                      |
|---------------------------------|----------------|--------------------------------------|
| <b>1. Theory of Relativity</b>  | <b>1905</b>    | <b>Albert Einstein</b>               |
| <b>2. Quantum Physics</b>       | <b>1913</b>    | <b>Neil Bohr</b>                     |
|                                 | <b>1926</b>    | <b>Erwin Schrödinger</b>             |
|                                 | <b>1942</b>    | <b>Robert Openheimer</b>             |
| <b>3. Bosons</b>                | <b>1920</b>    | <b>Satyendranath Bose</b>            |
| <b>4. String Theory</b>         |                |                                      |
| <b>5. Uncertainty Principle</b> | <b>1925-27</b> | <b>Dr Werner Heisenberg</b>          |
| <b>6. Parallel Universe</b>     | <b>1959</b>    | <b>Dr Segre &amp; Dr Chamberlain</b> |



# Modern Science and Gita/ Hindu Philosophy



**At the beginning of the 20<sup>th</sup> century it was thought that everything could be explained in terms of the properties of continuous matter, such as elasticity & heat conduction.**

**The discovery of atomic structure and Uncertainty Principle put an end to it.**

# Lord Nataraja at CERN Geneva



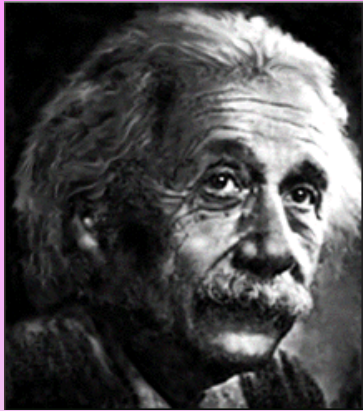
Lord Shiva veritably presided over the world's largest experiment as scientists today sent the first beam of protons zooming at nearly the speed of light around the world's most powerful particle accelerator at the CERN laboratory near Geneva in search of the 'God particle'.

Next to the 2m statue of the dancing Shiva or Nataraj at the European Center for Research in Particle Physics in Geneva is a plaque that explains the connection: "It is the clearest image of the activity of God which any art or religion can boast of" ...

"Hundreds of years ago, Indian artists created visual images of dancing Shivas in a beautiful series of bronzes. In our time, physicists have used the most advanced technology to portray the patterns of the cosmic dance.

The metaphor of the cosmic dance thus unifies ancient mythology, religious art and modern physics."

# Quotations on Gita by Scientists



**Albert Einstein**      1879 – 1955  
Nobel Prize- 1923  
Einstein Theory of Relativity  
Bose-Einstein Statistics

**I have made the Gita as the main source of my inspiration and guide for the purpose of scientific investigations and formation of my theories.**

***When I read the Bhagavad-Gita and reflect about how God created this universe everything else seems so superfluous.***

# Quotations on Gita by Scientists

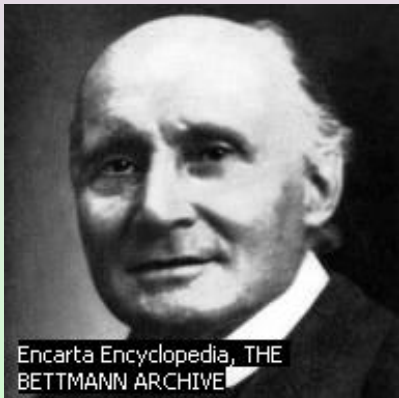


**Niels Henrik David Bohr (1885-1962)**

Danish nuclear physicist who developed the Bohr model of the atom

**I go into the Upanishads  
to ask questions.**

**Alfred North Whitehead, British Mathematician:**  
(1861-1947)



**"The vastest knowledge of today cannot transcend the buddhi of the Rishis in ancient India"**

**"Science, in its most advanced stage now, is closer to Vedanta than ever before."**

# Quotations on Gita by Scientists



**Erwin Schrodinger** (1887-1961),  
Austrian theoretical physicist, Nobel Laureate 1933

*“Some blood transfusion from the East to the West” to save Western science from spiritual anemia.”*



**Werner Heisenberg** (1901 –1976)

German - Noble Prize in 1932  
Uncertainty Principle of Quantum Theory and  
Particle Physics.

**“After the conversations about Indian Philosophy, some of the ideas of Quantum Physics that had seemed so crazy suddenly made much more sense.”**

# J. Robert Oppenheimer, American nuclear physicist (1904-1967):

*"If the radiance of a thousand suns were to burst into the sky, that would be like the splendor of the Mighty One. . . . Now I am become death, the destroyer of worlds."*



Oppenheimer "the father of the atomic bomb" quoting from the Hindu scripture Bhagavad-Gita upon witnessing the mushroom cloud resulting from the detonation of the world's first atomic bomb in New Mexico, U.S.A., on July 16, 1945.

*"Access to the Vedas is the greatest privilege this century may claim over all previous centuries."*



# Quotations on Gita by Scientists



**Werner Heisenberg** (1901 –1976)

German - Noble Prize in 1932

Uncertainty Principle of Quantum Theory and Particle Physics.

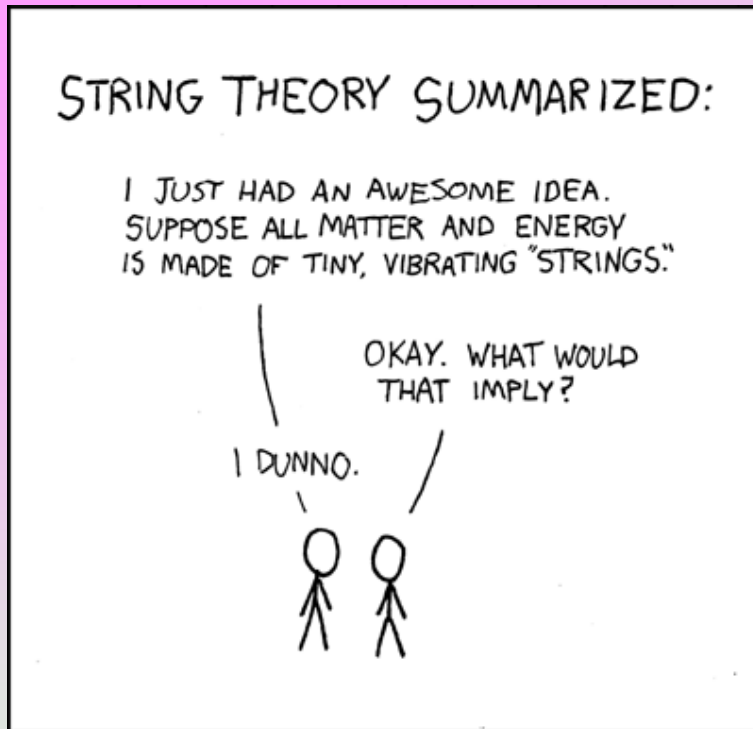
**“After the conversations about Indian Philosophy, some of the ideas of Quantum Physics that had seemed so crazy suddenly made much more sense.”**

**Heisenberg's Uncertainty Principle      Similar to Brahman**

*The measurement of position necessarily disturbs a particle's momentum, and vice versa.      Here the observer becomes a Participant.*

The more precisely the position is determined, the less precisely the momentum is known in this instant, and vice versa.

# Modern String Theory & Gita 7.7



1960s String Theory – Particles like Proton and Neutron (like Pearls) regarded as a wave on a **STRING**. The **strong forces between the particles would correspond to pieces of STRING** that went between other bits of **STRING** like in a spider's web. For this theory to give the observed value of the strong force between particles, the STRINGS had to be like rubber bands with a pull of about ten tons.

*mayi sarvam idam protam  
sūtre mani-ganah iva*

Everything rests upon Me,  
as pearls are strung on a thread.      Gita 7.7

*mayi*—in Me; *sarvam*—all that be; *idam*—which we see; *protam*—is strung; *sūtre*—on a thread; *mani-ganah*—pearls; *iva*—like.



# Multiverse or Parallel Universe

## Anti Matter - 1959



Dr. Emilio Segre  
1959 Antiproton

proved (theoretically) that matter exists in two forms — as particles and antiparticles.



Dr. Owen Chamberlain  
1959 Antiproton

there may exist another world, or an anti-world, built up of anti-matter. If these two worlds should ever clash, they would both be annihilated in one blinding flash.



A.C. Bhaktivedanta Swami Prabhupada  
1959 Easy Journey to Other Planets

two worlds did exist, the material and the spiritual, but the nature of the spiritual world was that it could never be annihilated.

# Dr. Carl Sagan, (1934-1996)

**famous astrophysicist**



*The Hindu religion is the only one of the world's great faiths dedicated to the idea that the Cosmos itself undergoes an immense, indeed an infinite, number of deaths and rebirths.*

**It is the only religion in which the time scales correspond, to those of modern scientific cosmology.**



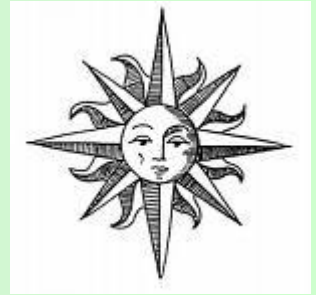
*A millennium before Europeans were willing to divest themselves of the Biblical idea that the world was a few thousand years old, the Mayans were thinking of millions and the Hindus billions.*

# Science in Vedas

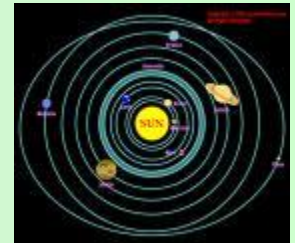
## Sun, Solar System & Earth



The Sun never sets or rises and it is the earth, which rotates (Sama-Ved 121).



The gravitational effect of solar system makes the earth stable (R.V.1-103-2, 1-115-4 and 5-81-2).



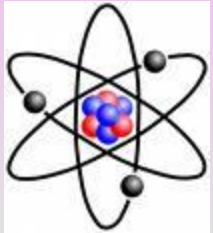
The axle of the earth does not get rusted and the earth continues to revolve on its axle (R.V. 1-164-29).



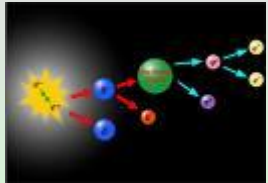
# Science in Vedas



**The science of Time and its subtle nature is described in (R.V.1-92-12 and 1-95-8).**



**The need to study the properties of water, air and fire for discovering and manufacturing aircrafts, ships and other vehicles capable of moving in the firmament, land and water are mentioned in Rig Veda 1-3-1,2, 1-34-1, 1-140-1 and many other hymns.**



**Reference to infinite number of both gross and subtle atoms and the energy principle as spirit of God in each atom is given in R.V. 5-47-2 and Sama Veda 222.**

**Atoms and sub atomic particles are not inert and have unsuspected vitality owing to this energy principle.**

**Physical sciences relating to agriculture, medicine, astronomy mathematics particularly algebra, toxicology etc. are described in R.V.1-71-9, 4-57-5, Sama Veda 121 and many other hymns.**

# **Science in Vedas**

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# Modern Science, Philosophy and Gita

*balam balavataam cāham  
kāma-rāga-vivarjitam  
Dharma aviruddho bhūtesu  
kāmo 'smi bharata rsabha*

I am the strength of the strong, devoid of passion and desire. I am sex life which is not contrary to religious principles, O lord of the Bhāratas [Arjuna].

## 7.11 Knowledge of the Absolute

*Yukta āhāra-vihārasya  
yukta-cestasya karmasu  
yukta-svapna avabodhasya  
yogo bhavati duḥkha-hā*

He who is regulated in his habits of eating, sleeping, recreation and work can mitigate all material pains by practicing the yoga system.

## 6.17 Dhyana Yoga

a

# Modern Science, Philosophy and Gita

**Modern Science and Philosophy depend on Path of Action (Karma) and Path of Knowledge (Jnana).**

**Bhagwad Gita turns**

<b>Karma</b>	<b>into</b>	<b>Karmayog</b>
<b>Jnana</b>	<b>into</b>	<b>Jnanayog</b>
<b>Bhakti</b>	<b>into</b>	<b>Bhaktiyog</b>

**And integrates these three.**

**Hence different facets of an individual are given importance.**

**Hence Gita is relevant to entire mankind.**



# What is the Essence of Bhagwad Gita



If we recite **“Gi-Ta”** again and again we get another word

**“Tya-Gi”** or which means to live for others.  
Sarva Bhuta Hita.

**“Acting without rewards for oneself”  
is the essence of Gita.**



# What is the Essence of Bhagwad Gita

Join the  
1<sup>st</sup> word of 1<sup>st</sup> Shloka and  
Last word of Last Shloka.

dharma-kñetre kuru-kñetre  
māmakāu pāēōavāç caiva

samavetā yuyutsavaù  
kim akurvata saījaya

&

yatra yogeçvaraù kãñēo  
tatra çrér vijayo bhütir

yatra pārtho dhanur-dharaù  
dhruvā nétir matir mama

Mama Dharma

means

My Duty

**Performing one's Duty is the essence of Gita**

# Sunita Pandya carries Bhagwad Gita to Outer Space



Sunita Pandya (Williams) .

USA - Longest Space walk 22 Hrs 27 Mints,

Took Statue of **Lord Ganesha**, **Bhagwad Gita** &  
a letter in Hindi to outer space

# Famous Quotations on Bhagwad Gita



**Warren Hastings** (1732 – 1818) Governor General

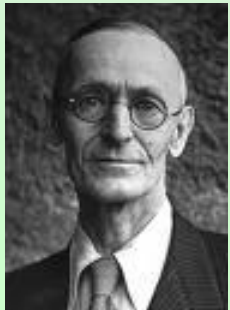
Writings such as the Gita will survive when the British dominion in India shall have long ceased to exist, and when the sources which it once yielded of wealth and power are lost to remembrance. (1785 preface to Gita by Charles Wilkins)



**Aldous Huxley** (1894 – 1963)

**English Novelist & Philosopher**

"The Gita is one of the clearest and most comprehensive summaries of the Perennial Philosophies ever to have been done. Hence its enduring values, not only for Indians but for all mankind."



**Herman Hesse** (1877-1962) German novelist & Nobel laureate:

"The marvel of the Bhagavad-Gita is its truly beautiful revelation of life's wisdom which enables philosophy to blossom into religion."

# Quotes on Bhagwad Gita



Wilhelm von Humboldt :  
German 1767 – 1835)

He influenced George Wilhelm Friedrich Hegel  
who influenced Karl Marx.

pronounced the Gita as the

"most beautiful, perhaps the only true  
philosophical song existing in any known  
tongue..... perhaps the deepest and loftiest  
thing the world has to show."

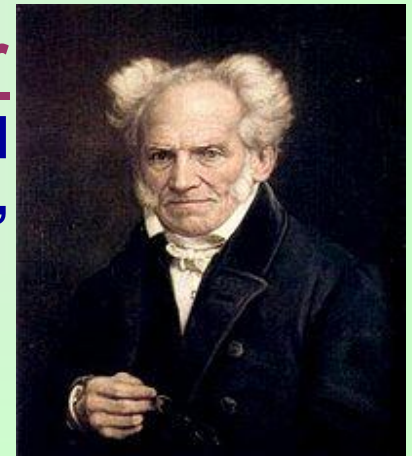
Arthur Schopenhauer

1788 - 1860 German Philosopher, influenced  
Schrödinger, Sigmund Freud, Einstein,

In the whole world there is no such study so  
beneficial and so elevating as that of the  
Upanishads.

It has been the solace of my life ;  
it will be the solace of my death.

Parallax Between Science and  
Gita



# Great Europeans Influenced by Gita

**Sir Charles Wilkins                      1749 – 1836**

**1785                      1<sup>st</sup> Translation of  
Bhagwad Gita in English**

**Major influence on Romantic Literature &  
on European Perception of Philosophy**

**Influenced**

**William Wordsworth,                      P.B.Shelly  
William Blake                                      John Keats**

**1787                      Abbe Peraud translated Gita  
in French from English**

**1802                      German Translation**



# Great English Poets & Scholars Influenced by Sir Charles Wilkins Gita



## William Wordsworth

1770 – 1850 English Poet,  
launched Romantic Age  
in English Literature



## Percy Bysshe Shelley

1792 - 1822

Major English Romantic Poets,  
Vegetarian

## Cremation of P.B. Shelley



## Annie Besant (1847 – 1933)

*After a study of some forty years and more of  
the great religions of the world, I find none so  
perfect, none so scientific, none so  
philosophical and none so spiritual that the  
great religion known by the name of Hinduism.*



## Arnold Toynbee 1889 – 1975, British Historian

*At this supremely dangerous moment in  
human history, the only way of salvation for  
mankind is the Indian way."*

Parallax Between Science and  
Gita

## William Blake

1757 - 1827

Major English Romantic Poets,



## Paul Brunton

(Raphael Hurst)

1898 - 1981

British Philosopher



# Great French Scholars Influenced by Gita



## Francois Marie Voltaire

**(1694-1774) France's greatest writer and philosopher:**

**"The Veda was the most precious gift for which the West had ever been indebted to the East."**

**"I am convinced that everything has come down to us from the banks of the Ganga — astronomy, astrology, metempsychosis, etc."**



## Roger-Pol Droit

**French philosopher, and Le Monde journalist:**

**"The Greeks loved so much Indian philosophy that Demetrios Galianos had even translated the Bhagavad-Gita".**

**"There is absolutely not a shadow of a doubt that the Greeks knew all about Indian philosophy."**

# Great French Scholars Influenced by Gita



**Romain Rolland (1866 – 1944) French Nobel Laureate**

*Religious faith in the case of the Hindus has never been allowed to run counter to scientific laws, moreover the former is never made a condition for the knowledge they teach.*

**1784 William Jones established Asiatic Society in Calcutta**

**1785 Charles Wilkins translated Gita in English Prose**

**1787 Abbe Peraud French Translation from English**

**1823 August Wilhelm Schlegel Latin Translation**

**1832 Jean Denis Languinas French Translation  
from original Sanskrit text**

**1885 Edwin Arnold Song Celestial  
English translation in Poetic form**



# Great German Poets Influenced by Sir Charles Wilkins Gita



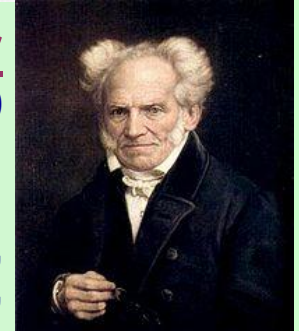
Friedrich von Schlegel  
1772 - 1829  
German Poet,

August Wilhelm Schlegel  
1767 - 1845  
German Poet,



William Humboldt  
1767 - 1835  
German Philosopher,  
Friend of Goethe,  
Humboldt University, Berlin

Arthur Schopenhauer  
1788 - 1860  
German Philosopher,  
influenced Schrödinger,  
Sigmund Freud,  
Einstein,



1770 - 1831  
George Wilhelm Friedrich Hegel  
German Philosopher, Dialectic Materialism  
Age of Enlightenment with Immanuel Kant  
Influenced Karl Marx

Max Muller  
1823 - 1900

German Orientalist, Philologist,



# Great American Scholars Influenced by Sir Charles Wilkins Gita



Ralph Waldo Emerson (1803 – 1882)

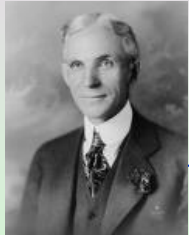
US Prophet, Father Figure of American Literature.

I owed a magnificent day to the Bhagwat Gita.



Henry David Thoreau (1817-1862) on Hinduism:

*"I would say to the readers of the Scriptures, if they wish for a good book, read the Bhagvat-Geeta.... translated by Charles Wilkins. It deserves to be read with reverence even by Yankees...."*



The discovery of Reincarnation put my mind at ease. "

American Auto Industrialist Henry Ford (1863 – 1947)



T.S. Eliot: 1888- 1965; American, Nobel Laureate in 1948,  
Greatest Poet of 20<sup>th</sup> Century

"Indian philosophers' subtleties make most of the great European philosophers look like schoolboys."

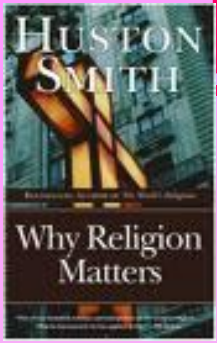
# Great American Scholars Influenced by Sir Charles Wilkins Gita



Christopher W. B. Isherwood (1904-1986)

Anglo American Translator, biographer, novelist,

"I believe the Gita to be one of the major religious documents of the world."



# Huston Smith — American writer

"The Vedic science movement began in 1893 when Swami Vivekananda (1863-1902) addressed the World Parliament of Religions in Chicago.

In that famous address, he sought to present Hinduism not just as a fulfillment of all other religions, but also as a **fulfillment of all of science.**

Vivekananda claimed that only the spiritual monism of Advaita Vedanta could fulfill the ultimate goal of natural science, which he saw as the search for the ultimate source of the energy that creates and sustains the world.

The Hindu literature of the early 20th century, especially the writings of Dr S. Radhakrishnan, Dayanand Saraswati and the many followers of Vivekananda, is replete with celebration of Hinduism as a "scientific" religion.

# Quotes on Bhagwad Gita



Early American Philosopher - Henry David Thoreau (1817-1862) on Hinduism:

*"I would say to the readers of the Scriptures, if they wish for a good book, read the Bhagvat-Geeta.... translated by Charles Wilkins. It deserves to be read with reverence even by Yankees...."*

- *"Besides the Bhagvat-Geeta, our Shakespeare seems sometimes youthfully green...."*
- Henry David Thoreau (1832) American early Thinker, Transcendentalist

# Quotes on Bhagwad Gita



## Henry David Thoreau :

On Gita he said : In the morning I bathe my intellect in the **stupendous and cosmogonical philosophy of the Gita** in comparison with which **our modern world and its literature seem puny and trivial.**

- Henry David Thoreau (1832) American early Thinker, Transcendentalist



# Famous Commentaries (Mahabhashyas) on Gita

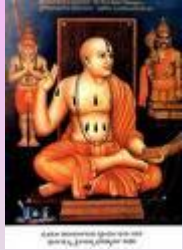


**Adi Shankara – Adwaita Philosophy**



**Ramanujacharya – Vishishta Dwaita**

**Madhwacharya – Dwaita Philosophy**



**Nimbarkacharya - Dwaitadwaita**



**Sant Jyaneshwar – paved the path of  
Hindavi Swaraj of Shivaji Maharaj**

**Madhusudan Saraswati – UP –  
Gudarth Deepika-**

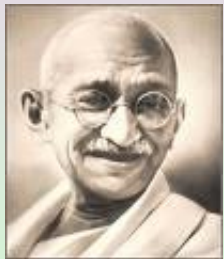
# Famous Commentaries on Gita during Freedom Struggle



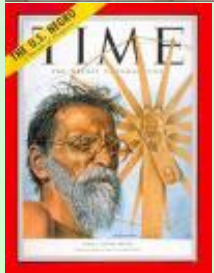
**Lokamanya Tilak – Gita Rahasya –**  
while in Mandalay Jail for 18 months



**Yogi Aurobindo – while in Alipore Jail**



**Mahatma Gandhi– Charkha as Yajnya**



**Vinoba Bhave – while in Jail**



# Famous Commentaries on Gita During Modern Era



**Swami Chinmayananda**  
**Geeta Jnana Yagna around the world**



**Srila Prabhupada**  
**Gita As it is – in 80 languages of the world**



**Rama Krishna Math Swamijis**



**Vivekananda Kendra, Kanya Kumari**  
**Sewa Vratis in Arunachal Pradesh, Assam,**  
**Nagaland, Andamans etc**