Twitter Thread by <u>Brahmasri Samavedam Shanmukha</u> <u>Sarma</u>



Brahmasri Samavedam Shanmukha Sarma @SriSamavedam



The distinction of measuring the time in a scientific manner is achieved only by Bh∎rat∎yas. Time has been measured from the smallest dimension to infiniteness. Even Time is envisioned as God and venerated. Param∎∎vara was extolled as 'Mah∎k∎la', the very embodiment of Time.



Narayala Upanilad envisages Narayala as 'Kalala a Narayala:', the very embodiment of Time, ages ago. The measurement of Time by Bharatayas is as ancient as the very God Himself. Count of many future ages has also been done even from very ancient times.

Since these calculations aren't dependent upon the birth & death of any individual, but are done based on astronomical science, they are thoroughly scientific. Unfortunately, during the British rule, the Bharataya way of Time measurement was casted as an illusion...

...with an evil intention to establish their command. Though it is 70+ years since independence, blindly time is still measured as BC & AD or CE in this religion-less land without even making any attempt to comprehend the magnanimity of Bh rat ya Time measurement methods.



Time measurement based on inhalation and exhalation: (image)

1 paramāṇuvu (micro atom) = 60,750th part of a second

1 tṛṭi = 29.6296th part of a micro second

1 tatpara = 2.96296th part of a millisecond

1 nimēṣa (time for an eyewink) = 88.889th part of a millisecond

45 nimēṣas = 1 prāṇa/ 4 seconds

6 prāṇas = 1 vināḍi/24 seconds

60 vinādis = 1 nādi/24 minutes

60 nāḍis = 1 ahōrātramu/1 day

Time measurement based on S∎rya Siddh∎nta : (image)

```
100 tṛṭis = 1 tatpara
30 tatparas = 1 nimēṣa
18 nimēṣas = 1 kāṣṭhamu
30 kāṣṭhas = 1 Kāla (1 Minute)
24 kālas (minutes) = 1 ghaḍiya
2 ghaḍiyas = 1 muhūrtamu
30 muhūrtams = 1 ahōrātramu (1 day)
```

Var■hamihira, an astronomical scientist, distinguished 'H■ra' from the above mentioned ah∎r■tramu and designed the measurement of Time based on 'H■ra Paddhati'.

1 day is divided into 24 heras. Based on this only, later a day is divided into 24 hours.

Time was measured as days, weeks, fortnights, months & so forth.

Fortnights, months, and years are counted based upon the movement of Sun and Moon.

Coz it is hard to count fortnights based on S■rya Siddh■nta,

it's easy to count fortnights, months, & years based on candra ka■as which are directly visible to the human eye.

Time is divided giving names to twelve months & 60 years.

Once the cycle of sixty years is complete, they repeat themselves.

60 Samvatsaras

oo canivatsaras							
1	Prabhava	21	Sarvajit	41	Plavanga		
2	Vibhava	22	Sarvadaari	42	Keelaka		
3	Shukla	23	Virodhi	43	Sowmya		
4	Pramoda	24	Vikruta	44	Saadhaarana		
5	Prajotpatti	25	Khara	45	Virodhikruta		
6	Angeerasa	26	Nandana	46	Paridhaavi		
7	Shree Mukha	27	Vijaya	47	Pamaadeecha		
8	Bhaava	28	Jaya	48	Ananda		
9	Yuva	29	Manmatha	49	Raakshasa		
10	Dhaatru	30	Durmukhi	50	Nala		
11	Eeshwara	31	Hevilambi	51	Pingala		
12	Bahudaanya	32	Vilambi	52	Kaalayukthi		
13	Pramaathi	33	Vikaari	53	Siddarthi		
14	Vikrama	34	Shaarvari	54	Roudri		
15	Vrusha	35	Plava	55	Durmathi		
16	ChitraBhaanu	36	Shubakrutu	56	Dundubhi		
17	Swabhaanu	37	Shobhakrutu	57	Rudirodgaari		
18	Taarana	38	Krodhi	58	Rakthaashi		
19	Paartheeva	39	√ishwaavası	59	Krodhana		
20	Vyaya	40	Paraabhava	60	Akshaya (Kshaya)		

Based on the star that is close on the full moon day, the month is named accordingly. For example, the month is named 'Chaitra', as the star chitta is present on the full moon day of that month.

Month	Nakṣatra
Caitra	Citrā
Vaiśākha	Viśākhā
Jyaistha	Jyeṣṭhā
Āśāḍha	Āśāḍhās
Śrāvaṇa	Śrona
Bhādrapada	Prosthapadas
Āśvayuja	Aśvinī
Kārtika	Kṛttikā
Mārgaśīrṣa	Mṛgaśiras
Paușa	Tiṣya
Māgha	Maghā
Phālguna	Phālgunī

Seasons - Ritu:

Based on the transformations in nature, one-year time is divided into 6 seasons.

Vasanta - chaitra, vais kha
Grama - jymmha, mmhaha
Varaa - mravala, bhadrapada
marad - mrayayia, kartakamu
Hamanta - margalira, pulaya
milira - magha, phalgula

```
    Vasanta (Spring)
    Śarad (Autumn)
```

- 2. Grīşma (Summer)5. Hēmanta (Winter)
- 3. Varṣa (Rainy)6. Śiśira (Leaf falling)
- Vasanta is that time of the year when fallen leaves sprout into tenders making nature very pleasurable. New year begins in this season & ends with leaf falling **■i■**ira season.

Indian scriptures scientifically detail how to carve out one's lifestyle based on seasonal changes.

Sa**■**krama**■**a:

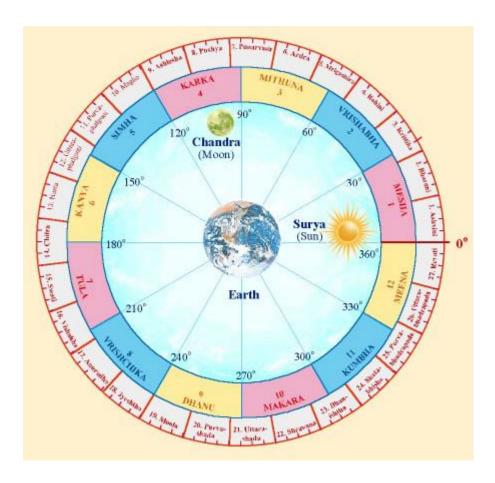
Based on the arrangement of stars in the celestial sphere, the twelve zodiacs starting from Aries to Pisces formed. During the rotation of earth around Sun, Sakramala is formed whenever Sun enters into that specific zodiac.



For ex: whenever Sun enters into mala & vralabha zodiacs respectively, it is called 'mala saakramaa' & 'vralabha saakramaa'. These saakramaa days are very sacred.

Two among them are very prominent -

1. Makara sa≣krama≣a day when Sun enters into Capricorn



2. Kark■■aka sa■krama■a day when Sun enters into Cancer.

Makara Sankranti is celebrated as 'Sankranti' festival (Pongal).

■yana:

- '■yana' means journey. One year is divided into two ■yanas -
- 1. Uttar

 yana and
- 2. Dak**■**in**■**yana.

These ■yanas are formed based on time taken by earth to rotate around Sun. While Uttar■yana begins with Makara sa■krama■a day, Dak■in■yana begins with Kark■■aka sa■krama■a day.

The Indian Time measurement didn't stop with years, but went forward to calculate the Yugas.

In Indian astronomy, yuga starting from 5 years to Mah■ Yugas has been calculated. The word 'Yuga' is derived from the word 'Y■ga' (union). According to Vedic astrology, names are given for every 5 years such as parivatsaramu, i■■vatsaramu, anuvatsaramu, & idvatvatsaramu.

Br
haspati (Guru or Jupiter) takes twelve years to complete on full cycle of moving across in all the twelve zodiacs. Based on this, the yuga that occurs every twelve years is called 'b
rhaspatya yuga'. Kumbhamelas occur every twelve years based on this yuga.



The union of Moon, Sun, dhani ha star, & Br haspati in the zodiac of Capricorn occurs once in every 60 years. This is also termed as one yuga.

Four yugas are mentioned taking the above yugas as parts within them. They are − Kr∎ta, tr∎t∎, Dv∎para & Kali.

- 1. Kr∎ta 17,28,000 years
- 2. tr■t■ 12,96,000 years
- 3. Dv**■**para 8,64,000 years
- 4. Kali 4,32,000 years.

Combined, all these four yugas is called one 'Mah■ yuga' = 43,20,000 years

Time is relative.

There is diff between the time measurement of gods living in divine planes & humans living in earthly planes.

1 yr on earth is equal to 1 day for gods.

71 mah■ yugas is 1 manvantara.

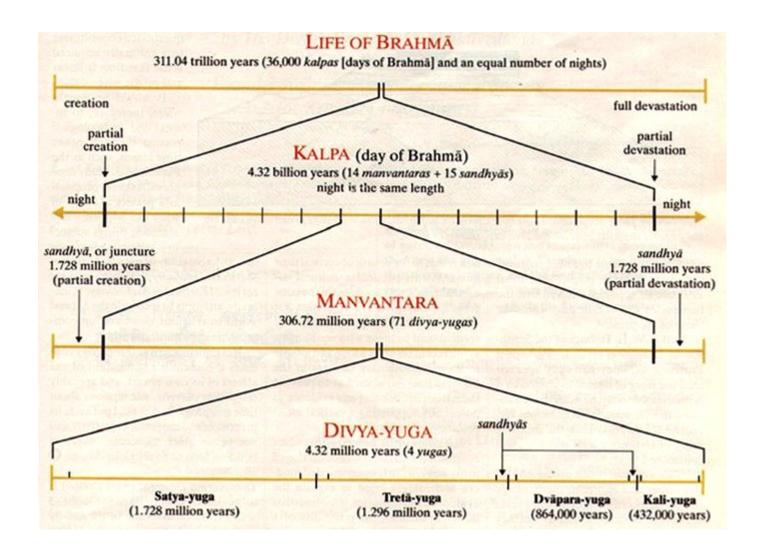
14 manvantaras are mentioned in our scriptures & each has diff Indra as head of gods.

Manvatara/Manu	Indra
Svayambhuva	Yajna (Avatar of Vishnu)
Swarochish	Vipaschit
Uttam	Sushaanti
Taamas	Shibi
Raivat	Vibhu
Chaakshush	Manojav
Shraaddhdev	Purandar (the present Indra)
Savarni	Bali
Daksha Saavarni	Adbhut
Brahma Saavarni	Shanti
Dharma Saavarni	Vish
Rudraputra Saavarni	Ritudhaama
Ruchi (Deva Saavarni)	Devaspati
Bhaum (Indra Saavarni)	Suchi

Between manvantaras, a sub pra∎aya (small scale dissolution) occurs.

- 1,000 mah■ yugas is called 1 kalpa.
- 1 kalpa is day & another kalpa is night for Brahma.

Lifetime of Brahma, the Creator 1Mah■ Kalpa – 311,040,000,000,000 years



Present Time:

Current Manvantara - Vaivasvata, the 7th manvantara

Kalpa - Nighttime of Brahma

Mah■ Yuga - 28th Mah■ Yuga

Current Yuga - Kali Yuga

Current Year - 5121 year in Kali Yuga

Unit ^[8]	Definition	Human	
mahā-kalpa	36,000 kalpa & pralaya	211 040 000 000 000 00	
mahā-pralaya	mahā-kalpa length	311,040,000,000,000 yr	
parārdha	¹∕₂ mahā-kalpa	155,520,000,000,000 yr	
kalpa	14 m + 15 ms; 1,000 cy	4 220 000 000 vr	
pralaya	kalpa length	4,320,000,000 yr	
manvantara [m]	71 catur-yuga	306,720,000 yr	
manvantara-sandhyā [ms]	Kṛta-yuga length	1,728,000 yr	
catur-yuga [cy]	Kṛta, Tretā, Dvāpara & Kali-yugas	4,320,000 yr	

At the completion of one Mah■ Kalpa, Brahma and the entire universe present at that time

dissolves into the Supreme. Again, creation starts.

This is the 'Cycle of Time'.

Details of ■akas:

Derived from the rule of great emperors, (not based on Christ),

■akas are determined for Bh■rat■yas. For the Kali yuga, total six emperors are mentioned as ■akakarta i.e. the beginner of an era.

- 1. Yudhi∎∎hira ■akamu Began in 3102 B.C. & continued for 3044 years
- 2. Vikrama ■akamu Began in 57 B.C. & continued for 135 years
- 3. ■■liv■hana ■akamu Began in 78 A.D. & continued for 18,000 years.

Future ■akas are also determined.

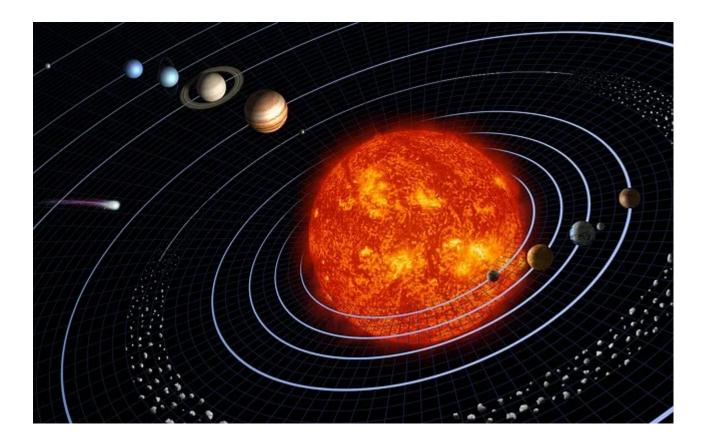
- 4. Vijay ■bhinandana ■akamu Duration is 10,000 years
- 5. N■g■rjuna ■akamu Duration is 400,000 years
- 6. Kalki ■akamu 821 years before the end of kali yuga.

Currently, it is 1938th year in ■■liv■hana ■aka.

Further scientific explorations of Bharatayas enabled them to establish the relationship between timelines of people living on this earth in relationship with stars & planets present in space.

That knowledge is nothing but the science of astrology. Their discoveries helped to determine the influence of specific star and planet on an individual present on earth at a specific time. Many intellectuals, domestic & foreign, are conducting scientific researches on these..

.. aspects and thereby unfolding many secrets. Based on the specific time of birth of an individual & influence of distinct stars & planets with respect to corresponding places, there are scriptures that help determine to initiate what kind of work to achieve definitive success.



Bharatayas are habituated to look for auspicious times even to wear new clothes & use new items. This is not an orthodox belief, but the ultimate scientific knowledge.

Even from the times of Newton, Physics proposed many theories such as Multiverse theory, which states ..

that there are many worlds which are interlinked through time called the 'Time of Relativity'. It also stated that there is possibility of reaching of those worlds thru practices, one can travel into the future to know future happenings & similarly 1 can travel into the past too.

All the above have been postulated by Bharataya Maharais (scientists) ages ago. Let's realize this truth and take pride as a Bharataya.

*** End ***

