

AstroPro



Program Highlights

Generates Vedic Almanac Specific To Your Place

- Lunar Year, Month, Day.
- Sunrise, Sunset,
Moonrise, Moonset.
- Star, Tithi, Yoga, and
Karana.
- Festival alert.
- Planet's zodiac position.
- True Rahukala.

Almanac - Tithi, Vara, Tara, Yoga, Karana & Griha

Place: NC-Raleigh [78.63W, 35.77N] Date: 3-23-2012 Time: 7.13

mm-dd-yyyy hr.min

Samvatsara: Nandana Month: Chaitra

Day's Almanac at Sunrise

Week Day	Friday	True Rahukala	Sunrise	7.13
Tithi	Prathamī (12.35 hr.min)	Shuddha	Sunset	19.29
Tara (star)	Revati (29.44 hr.min)	part 1	Moonrise	7.25
Yoga	Brahma	Karana Bava	Moonset	20.46
Festival	Ugadi-New Year (Saka-1934)			

Note: Transition hours in excess of 24 hr be treated as hours after midnight / next day.

Planet's Zodiac Position

Almanac - Zodiac position of planets

Date: 3-23-2012 Place: NC-Raleigh [78.63W, 35.77N]

Day's Chart

Ravi Chan Budh Lagn	Guru Shuk	Ketu	
	Date: 3-23-2012		Kuja
	Rahu	Shan	

Ravi (Sun)	U.Bhadra-2
Chan (Moon)	Revati-1
Kuja (Mars)	Magha-4(R)
Budha (Mercury)	U.Bhadra-1(R)
Guru (Jupiter)	Bharani-2
Shukra (Venus)	Bharani-4
Shani (Saturn)	Chitta-4(R)
Rahu (Asc Node)	Anuradha-4
Ketu (Desc Node)	Rohini-2
Lagna (Ascendant)	U.Bhadra-2

R - Retrograde

OK / Close

Set Your Place

- Set any place with known longitude, latitude and its standard meridian.
- Can choose nearest city from the default list by clicking Long/Lat button.
- Set day light saving time if applicable.

Default Place Setting

Place Ref Time : Sunrise

Longitude East West

Latitude North South

Standard Meridian

Note: Click 'Edit Place' to select the nearest city from your residence
You can also edit directly if you know both longitude and latitude

List of Major Cities & Country

Edit Place [X]

Country: USA
City: AL-Montgomery

Country List:
USA
Canada
Europe
South Asia
Asia Pacific
Middle East
Australia
South America

Longitude: 86.10W
Latitude: 30.60N
Std. Meridian: 75.00

OK Cancel

Edit Place [X]

Country: India
City: Agra

Country List:
India

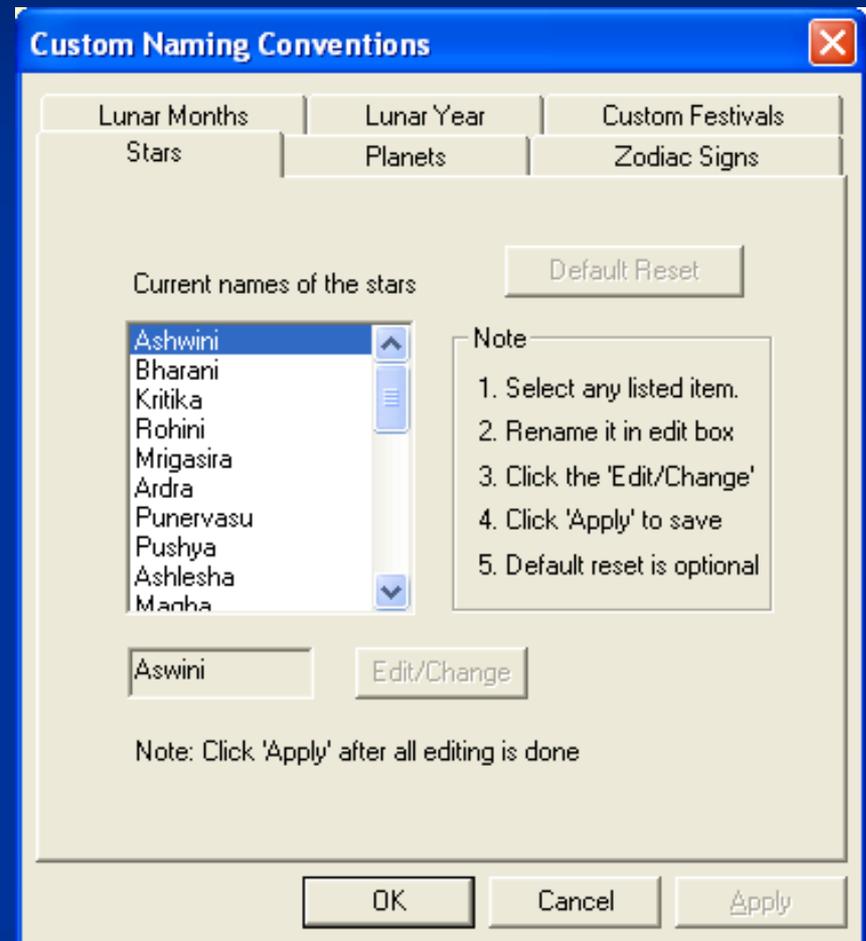
City List:
Lucknow
Madras
Madurai
Mangalore
Mysore
N.Delhi
Nagpur
Nasik
Nellore
Panaji
Patna

Longitude: 78.00E
Latitude: 27.20N
Std. Meridian: 82.5

OK Cancel

Customize Naming Convention To Suite Your Local Tradition.

- Can change names of stars, planets, zodiac signs and lunar months as well as lunar year.
- Can choose either default or custom naming convention for the almanac display.



Customize Local Festivals and Family Events

- Add son's or daughter's birth day. Example shows son's birth day is being added as on Chaitra 10th lunar day.
- Similarly can add diseased parent's tithi day.
- Add any local temple/car festival days.

Custom Naming Conventions

Stars Planets Zodiac Signs
Lunar Months Lunar Year Custom Festivals

Event

Lunar Month and day of the event

Custom Events

Note: To save all modifications and changes click 'Apply'

Generates Festival List for any given year.

- In the year 2012, son's birth day (Chaitra -10) falls on April 1st.
- Father's tithi falls on March 15 (Phalguna 23)
- Helps plan your trip/vacation in advance.

Lunar days and Hindu festivals for the year 2012 for NC-Raleigh

Date	Weekday	Lunar month-day	Festivals
Jan-4	Wednesday	Pushya-11	Yekadashi
Jan-8	Sunday	Pushya-15	Poomami
Jan-12	Thursday	Pushya-19	Sankashta Chaturthi
Jan-14	Saturday	Pushya-21	Makara-Sankranthi(14.21)
Jan-22	Sunday	Pushya-30	Amavasya
Jan-30	Monday	Magh-7	Ratha Saphthami
Feb-3	Friday	Magh-11	Yekadashi
Feb-7	Tuesday	Magh-15	Poomami
Feb-10	Friday	Magh-18	Sankashta Chaturthi
Feb-12	Sunday	Magh-21	Kumbh-Sankranthi(27.18)
Feb-19	Sunday	Magh-28	Maha-Shivaratri
Feb-21	Tuesday	Magh-30	Amavasya
Mar-4	Sunday	Phalguna-11	Yekadashi
Mar-7	Wednesday	Phalguna-14	Holi- Poomami
Mar-10	Saturday	Phalguna-18	Sankashta Chaturthi
Mar-13	Tuesday	Phalguna-21	Meena-Sankranthi(25.09)
Mar-15	Thursday	Phalguna-23	Father's Tithi
Mar-22	Thursday	Phalguna-30	Amavasya
Mar-23	Friday	Chaitra-1	Ugadi-New Year (Saka-1934)
Mar-31	Saturday	Chaitra-9	Shri Rama Navami
Apr-1	Sunday	Chaitra-10	Son's Birthday
Apr-2	Monday	Chaitra-11	Yekadashi
Apr-6	Friday	Chaitra-15	Shri Hanuman Jayanthi
Apr-9	Monday	Chaitra-19	Sankashta Chaturthi
Apr-13	Friday	Chaitra-23	Mesh-Sankranthi(9.37)
Apr-20	Friday	Chaitra-30	Amavasya
Apr-24	Tuesday	Vaishakh-3	Akshaya Thritiye
May-2	Wednesday	Vaishakh-11	Yekadashi
May-4	Friday	Vaishakh-13	Shri Narasimha Jayanthi
May-5	Saturday	Vaishakh-15	Vaishakhi Poomami
May-8	Tuesday	Vaishakh-18	Amavasya Chaturthi

Generates Custom Calendar for given year and month.

- Shows the calendar for April 2012, month of Chaitra in Nandana Samvasara.
- Son's Birthday (Chaitra-10) falls on April 1st.

Almanac for the month of April, 2012 at NC-Raleigh

Nandana Samvasara - Chaitra Shukla Paksha
Sunrise: 6.60 (hr.min) Sunset: 19.36 (hr.min)

Date-Day	Tithi (hr.min)	Star (hr.min)	Yoga	Karana	Festivals
1-Sunday	10 (28.11)	Pushya(24.01)	Sukarman	Taitula	Son's Birthday
2-Monday	11 (26.51)	Ashlesha(23.33)	Dhriti	Varuja	Yekadashi
3-Tuesday	12 (24.45)	Magha(22.17)	Shoola	Bava	
4-Wednesday	13 (22.01)	Hubba(20.23)	Ganda	Kaulava	
5-Thursday	14 (18.50)	Uttara(17.59)	Vridhhi	Garija	
6-Friday	15 (15.20)	Hasta(15.17)	Vyaghata	Bava	Shri Hanuman Jayanthi

Nandana Samvasara - Chaitra Krishna Paksha
Sunrise: 6.51 (hr.min) Sunset: 19.41 (hr.min)

7-Saturday	1 (11.41)	Chitta(12.26)	Harshana	Kaulava	
8-Sunday	2 (8.03)	Swathi(9.36)	Vajra	Garija	
9-Monday	4 (25.34)	Vishakha(6.58)	Siddhi	Bava	Sankashta Chaturthi
10-Tuesday	5 (22.58)	Jyesta(26.58)	Vyatipta	Kaulava	
11-Wednesday	6 (20.55)	Moola(25.46)	Parigha	Garija	
12-Thursday	7 (19.27)	P.Ashada(25.11)	Shiva	Visti	
13-Friday	8 (18.37)	U.Ashada(25.12)	Siddhi	Balava	Mesh-Sankranthi(9.37)
14-Saturday	9 (18.25)	Shravana(25.50)	Sadhya	Garija	
15-Sunday	10 (18.48)	Dhanishta(27.01)	Shubha	Visti	
16-Monday	11 (19.43)	Shatabhisha(28.41)	Shukla	Bava	
17-Tuesday	12 (21.06)	P.Bhadra(Full day)	Brahma	Kaulava	
18-Wednesday	13 (22.52)	P.Bhadra(6.48)	Indra	Garija	
19-Thursday	14 (24.59)	U.Bhadra(9.17)	Vaidhriti	Visti	
20-Friday	15 (27.21)	Revati(12.04)	Vishakambh	Chatuspada	Amavasya

Nandana Samvasara - Vaishakh Shukla Paksha
Sunrise: 6.33 (hr.min) Sunset: 19.53 (hr.min)

21-Saturday	1 (29.54)	Ashwini(15.03)	Priti	Kimstughna	
22-Sunday	2 (32.33)	Bharani(18.10)	Ayushman	Balava	
23-Monday	2 (8.33)	Kritika(21.18)	Saubhagya	Kaulava	
24-Tuesday	3 (11.08)	Rohini(24.20)	Shobhana	Garija	Akshaya Thritiye
25-Wednesday	4 (13.30)	Mrigasira(27.06)	Atiganda	Visti	
26-Thursday	5 (15.30)	Ardra(29.27)	Sukarman	Balava	
27-Friday	6 (16.59)	Punervasu(Full day)	Dhriti	Taitula	

Simulate Eclipses (Houston-Texas)

Eclipses ✕

TX-Houston

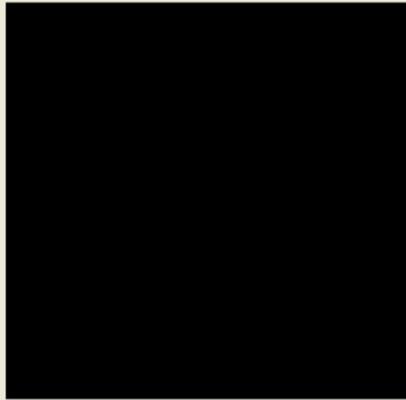
Year Month

Day Time: 0

Option

All Lunar Solar

Eclipse Animation with Time



Observed time may vary depending upon local atmospheric refraction conditions.

Solar Eclipse May 20, 2012, As seen in Houston-Texas., USA

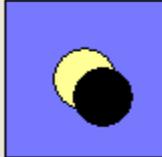
- Solar eclipse just before sunset .
- Provides all relevant astronomical reference data about the eclipse as shown in the next slide.



Solar Eclipse May 20, 2012

As seen in Houston-Texas, USA

Solar Eclipse Data [Close]

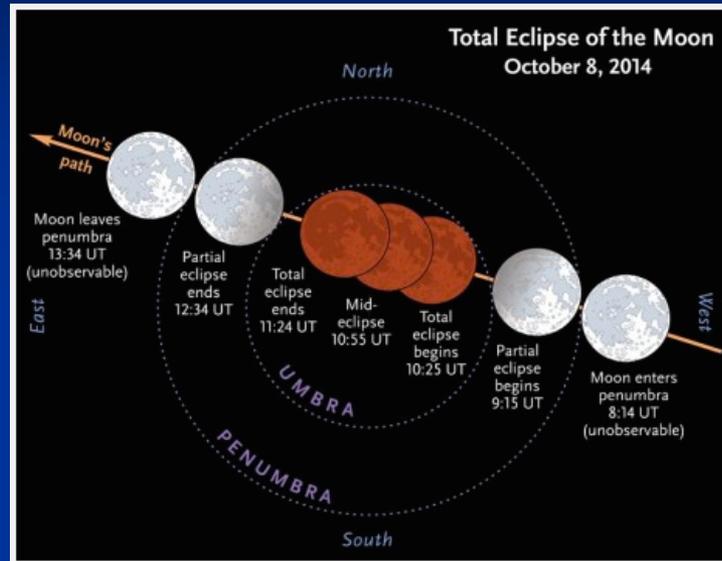
Eclipse parameters		Sunrise / Sunset		Eclipse Max	
Eclipse duration	1h 58m 37.17s	Semi dia - Sun	0° 15' 48.13s	Rise	6.26 hr.min
Total-Eclipse duration		Semi dia - Moon	0° 14' 43.31s	Set	20.11 hr.min
Magnitude	0.547				

Apparant Beginning		Apparant Max		Apparant Ending	
Starting Time	19.33 hr.min	Eclipse Max	20.06 hr.min	Ending Time	21.31 hr.min
Altitude	6.94°	Altitude	0.74°	Altitude	-16.09°
Azimuth	289.43°	Azimuth	293.31°	Azimuth	305.31°

Note: Altitude Azimuth are the Topocentric co-ordinates for local viewing.
Altitude negative value indicate the Sun is below the horizon (Already set or going to rise)

[OK]

Total Lunar Eclipse Oct 2014



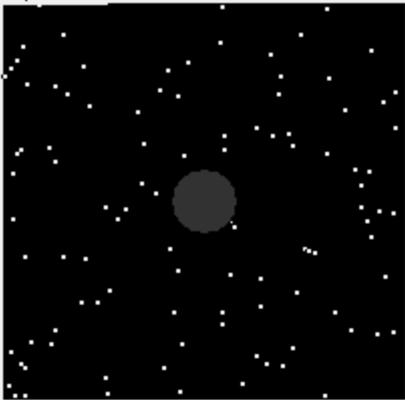
<i>ECLIPSE EVENT</i>	<i>EDT</i>	<i>CDT</i>	<i>MDT</i>	<i>PDT</i>
Penumbra first visible	4:45 a.m.	3:45 a.m.	2:45 a.m.	1:45 a.m.
Partial eclipse begins	5:15 a.m.	4:15 a.m.	3:15 a.m.	2:15 a.m.
Total eclipse begins	6:25 a.m.	5:25 a.m.	4:25 a.m.	3:35 a.m.
Mid-eclipse	6:55 a.m.	5:55 a.m.	4:55 a.m.	3:55 a.m.
Total eclipse ends	7:24 a.m.	6:24 a.m.	5:24 a.m.	4:24 a.m.
Partial eclipse ends	—	7:34 a.m.	6:34 a.m.	5:34 a.m.
Penumbra last visible?	—	—	7:05 a.m.	6:05 a.m.

Total Lunar Eclipse Oct 8, 2014

Los Angeles

2014 Lunar Eclipse detail for CA-LosAngeles

Eclipse Max



Eclipse parameters

Eclipse duration

Total-Eclipse duration

Magnitude Shadow

Sun at Eclipse Middle

Right Ascension

Declination

Semi diameter

Moon at Eclipse Middle

Right Ascension

Declination

Semi diameter

Eclipse Stages

	hr.min
Begin Umbral	<input type="text" value="2.15"/>
Begin Total	<input type="text" value="3.22"/>
Mid Eclipse	<input type="text" value="3.52"/>
End Total	<input type="text" value="4.22"/>
End Umbral	<input type="text" value="5.37"/>

Moonrise

Moonset

Muhurtas For Important Events As per Hindu Tradition

- Upanayana (Thread ceremony)
- Marriage ceremony
- Business deals
- Real estate deals
- Traveling long distance
- Griha Pravesh (House Warming)
- General purpose

Chart Analysis

Vimsottari Dasa

Maha Dasa	From	To
Rahu	14 Aug 1955	10 Oct 1970
Guru	11 Oct 1970	18 Jul 1986
Shani	19 Jul 1986	9 Apr 2005
Budha	10 Apr 2005	10 Jan 2022
Ketu	11 Jan 2022	4 Dec 2028
Shukra	5 Dec 2028	21 Aug 2048
Ravi	22 Aug 2048	21 Jul 2054
Chandra	22 Jul 2054	29 May 2064

Dasa Bhukti Analysis

1.Rahu Maha Dasa			2.Guru Maha Dasa		
Bhukti	From	To	Bhukti	From	To
Rahu	14 Aug 1955	11 Sep 1955	Guru	11 Oct 1970	16 Nov 1972
Guru	12 Sep 1955	22 Jan 1958	Shani	17 Nov 1972	17 May 1975
Shani	23 Jan 1958	13 Nov 1960	Budha	18 May 1975	10 Aug 1977
Budha	14 Nov 1960	20 May 1963	Ketu	11 Aug 1977	12 Jul 1978
Ketu	21 May 1963	1 Jun 1964	Shukra	13 Jul 1978	26 Feb 1981
Shukra	2 Jun 1964	17 May 1967	Ravi	27 Feb 1981	11 Dec 1981
Ravi	18 May 1967	5 Apr 1968	Chandra	12 Dec 1981	5 Apr 1983
Chandra	6 Apr 1968	27 Sep 1969	Kuja	6 Apr 1983	6 Mar 1984
Kuja	28 Sep 1969	10 Oct 1970	Rahu	7 Mar 1984	18 Jul 1986

3.Shani Maha Dasa			4.Budha Maha Dasa		
Bhukti	From	To	Bhukti	From	To
Shani	19 Jul 1986	5 Jul 1989	Budha	10 Apr 2005	24 Aug 2007
Budha	6 Jul 1989	29 Feb 1992	Ketu	25 Aug 2007	15 Aug 2008
Ketu	1 Mar 1992	3 Apr 1993	Shukra	16 Aug 2008	1 Jun 2011
Shukra	4 Apr 1993	17 May 1996	Ravi	2 Jun 2011	2 Apr 2012
Ravi	18 May 1996	24 Apr 1997	Chandra	3 Apr 2012	25 Aug 2013
Chandra	25 Apr 1997	15 Nov 1998	Kuja	26 Aug 2013	17 Aug 2014
Kuja	16 Nov 1998	19 Dec 1999	Rahu	18 Aug 2014	20 Feb 2017
Rahu	20 Dec 1999	10 Oct 2002	Guru	21 Feb 2017	17 May 2019
Guru	11 Oct 2002	9 Apr 2005	Shani	18 May 2019	10 Jan 2022

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Dasa Varga Analysis

Dasa Lord	Rasi	Hora	Drekana	Septamsa	Navamsa	Dwadashamsa	Trisamsa
Ravi	Karkataka	Ravi	Meena	Simha	Meena	Vrishabha	Kuja
Chandra	Mithuna	Ravi	Tula	Simha	Dhanu	Kanya	Shani
Kuja	Karkataka	Ravi	Meena	Simha	Meena	Mithuna	Kuja
Budha	Simha	Ravi	Mesha	Kanya	Vrishabha	Tula	Shani
Guru	Karkataka	Ravi	Vrishika	Mithuna	Dhanu	Kumbha	Guru
Shukra	Karkataka	Ravi	Meena	Karkataka	Makara	Meena	Shani
Shani	Tula	Chandra	Mithuna	Meena	Mesha	Mithuna	Budha
Rahu	Dhanu	Ravi	Mesha	Dhanu	Mesha	Dhanu	Kuja
Ketu	Mithuna	Ravi	Tula	Mithuna	Tula	Mithuna	Kuja
Lagna	Kanya	Ravi	Kanya	Tula	Kanya	Karkataka	Kuja

Bhava Analysis

Bhava	1	2	3	4	5	6
Start	161° 55'	191° 55'	221° 29'	251° 3'	281° 3'	311° 29'
Middle	177° 8'	206° 42'	236° 16'	265° 50'	296° 16'	326° 42'

Bhava	7	8	9	10	11	12
Start	341° 55'	11° 55'	41° 29'	71° 3'	101° 3'	131° 29'
Middle	357° 8'	26° 42'	56° 16'	85° 50'	116° 16'	146° 42'

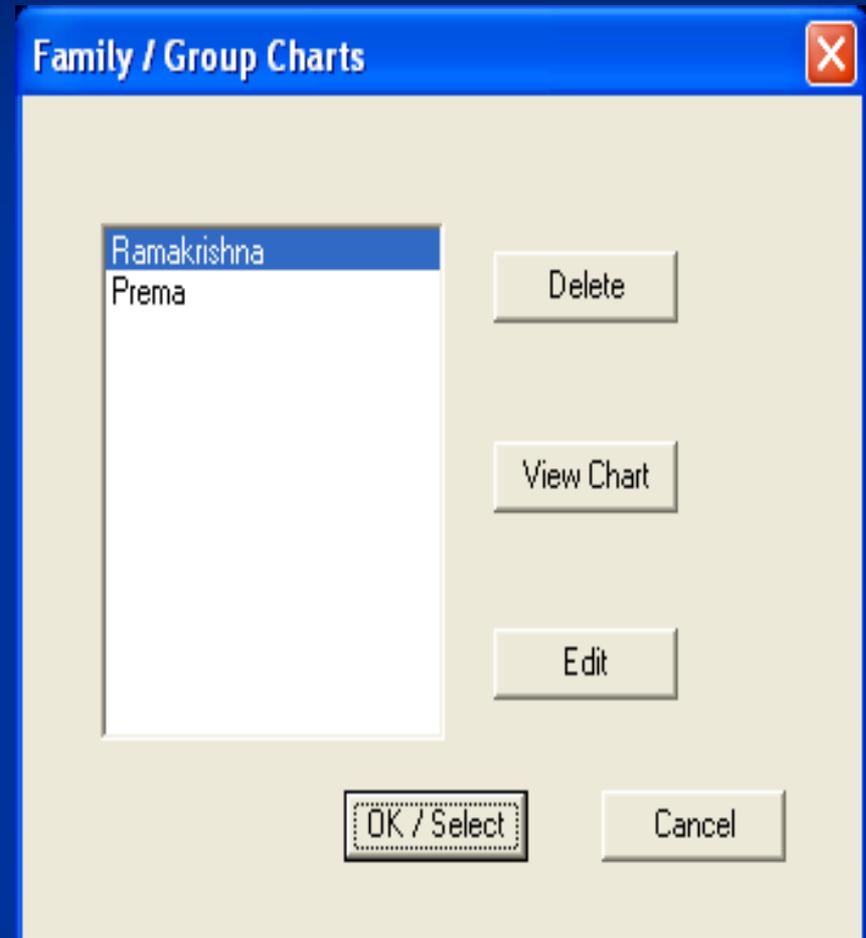
Ashtakarga Analysis

Griha	Mesh (Ari)	Vrisbh (Tau)	Mithun (Gem)	Kark (Canc)	Simh (Leo)	Kanya (Virg)	Tula (Libr)	Vrishk (Scrp)	Dhanu (Sagt)	Makard (Capr)	Cumbh (Aqrs)	Meena (Pisc)
Ravi (Sun)	5	5	4	5	5	0	4	4	4	5	3	4
Chand (Moon)	5	5	4	2	4	3	3	5	5	3	5	5
Kuja (Mars)	5	5	5	3	3	2	3	3	4	3	3	0
Budh (Merc)	5	6	5	6	4	3	5	4	4	4	4	4
Guru (Jup)	6	6	2	5	5	5	5	2	5	5	6	4
Shuk (Ven)	5	7	5	4	3	4	4	4	4	4	5	3
Shan (Sat)	4	5	5	3	3	2	1	4	5	2	3	2
Total	35	39	30	28	27	19	25	26	31	26	29	22

22	35	39	30
29	Sarvashtaka Chart		28
26			27
31	26	25	19

Single File for All Members

- Up to 100 member's chart in one file.
- Instant access.
- Easy to maintain.



Stars Compatibility

- Finds compatibility for any given stars of boy and girl.
- Example shows 72% compatibility between Rohini and Anuradha star.
- Provides detail of score under each category.

The screenshot shows a software window titled "Compatibility of Stars". It contains two rows of input fields. The first row is for the "Boy's Star" with a dropdown menu set to "Rohini" and a "Pada/Qtr" dropdown set to "Part 1". The second row is for the "Girl's Star" with a dropdown menu set to "Anuradha" and a "Pada/Qtr" dropdown set to "Part 1". Below these fields is a section titled "Compatibility" which contains a text box showing "Total points: 26.00/36.0", a "Compatibility %" field showing "72", and a "Details" button. To the right of the "Compatibility" section is a list of categories and their scores: Varna Kuta (0.0), Vyasa Kuta (0.5), Dina Kuta (1.5), Yoni Kuta (2.0), Griha Maitra (3.0), Gana Kuta (4.0), Rasi Kuta (7.0), and Nadi Kuta (8.0). At the bottom of the window are "OK" and "Cancel" buttons.

Category	Score
Varna Kuta	0.0
Vyasa Kuta	0.5
Dina Kuta	1.5
Yoni Kuta	2.0
Griha Maitra	3.0
Gana Kuta	4.0
Rasi Kuta	7.0
Nadi Kuta	8.0

Matrimonial

- Key factors in match making process
 - Compatibility
 - Mars doshas
 - Sama-sandhi
- Generates report with point scored as shown in the following slide.

Horoscope Matching

Primary Person

Boy Girl

Name

Date of Birth

Time of Birth

Place

Long/Lat

Matching Person

Name

Date of birth

Time of Birth

Place

Long/Lat

```
matching_sum - Notepad
File Edit Format View Help
Matching Summary Report
-----
Name      : Ramakrishna Bhat
Birth date: 14 Aug-1955
Birth star: Ardra

Matching with

Name      : Prema
Birth date: 9 Mar-1958
Birth star: Swathi
-----
Criteria                                Remarks
-----
1.Compatibility : 69% (25.0 out of 36)
2.Doshas       :
                 In Ramakrishna's chart, total doshas 10 (Mars dosha 2).
                 In Prema's chart, total doshas 9 (Mars dosha 2).
3.Samasandhi   : There are no bad transitions running simulataniously.
4.Yogakaraka Dasa:
                 Yogakarka dasas for Ramakrishna:
                 Guru dasa from 11 Oct 1970 for 16 years
                 Budha dasa from 10 Apr 2005 for 17 years
                 Shukra dasa from 5 Dec 2028 for 20 years
```

Ephemeris Data

- Tropical (Geocentric Longitude and Latitude)
- Equatorial (Declination and Right Ascension)
- Topocentric (Altitude and Azimuth)

Tropical

- Geocentric ecliptic system where longitude (λ) is measured counterclockwise from the vernal equinox and latitude (β) is measured from the ecliptic.

Tropical Longitude and Latitude for the month of May, 2012 at TX-Houston

Date	Tropical Longitude at 12 noon							Precession (Ayanamsa): 24° 1'	
	Sun	Moon	Mars	Mercury	Jupiter	Venus	Saturn	Mean Rahu : 65° 42'	
May-1	41° 46'	160° 53'	155° 27'	17° 50'	50° 20'	80° 41'	205° 17'		
May-2	42° 44'	175° 6'	155° 39'	19° 20'	50° 34'	81° 7'	205° 13'		
May-3	43° 42'	189° 45'	155° 51'	20° 53'	50° 49'	81° 32'	205° 9'		
May-4	44° 40'	204° 44'	156° 4'	22° 27'	51° 3'	81° 56'	205° 4'		
May-5	45° 38'	219° 55'	156° 17'	24° 4'	51° 17'	82° 17'	205° 0'		
May-6	46° 36'	235° 9'	156° 31'	25° 42'	51° 31'	82° 37'	204° 56'		
May-7	47° 34'	250° 15'	156° 45'	27° 23'	51° 45'	82° 55'	204° 52'		
May-8	48° 32'	265° 7'	157° 0'	29° 5'	51° 60'	83° 10'	204° 48'		
May-9	49° 30'	279° 36'	157° 16'	30° 50'	52° 14'	83° 24'	204° 44'		
May-10	50° 28'	293° 40'	157° 32'	32° 36'	52° 28'	83° 36'	204° 40'		
May-11	51° 26'	307° 17'	157° 48'	34° 24'	52° 42'	83° 45'	204° 36'		
May-12	52° 24'	320° 30'	158° 5'	36° 15'	52° 56'	83° 53'	204° 33'		
May-13	53° 22'	333° 19'	158° 22'	38° 7'	53° 11'	83° 58'	204° 29'		
May-14	54° 20'	345° 50'	158° 39'	40° 1'	53° 25'	84° 1'	204° 25'		
May-15	55° 18'	358° 5'	158° 57'	41° 58'	53° 39'	84° 2'	204° 22'		

Equatorial

- The angular separation of any celestial objects are not affected by the earth's rotation. This angle is called declination (δ). The second co-ordinate is defined that is unaffected by the rotation is the angle from vernal equinox measured along the equator. This angle is Right Ascension (α in degrees or RA in hours).

Right Ascension & Declination for the month of May, 2012 at TX-Houston

Right Ascension (RA) at 12 noon

Date	Sun	Moon	Mars	Mercury	Jupiter	Venus	Saturn
May-1	2h 36'	10h 28'	10h 32'	1h 9'	3h 13'	5h 18'	13h 38'
May-2	2h 40'	11h 20'	10h 32'	1h 14'	3h 13'	5h 20'	13h 38'
May-3	2h 44'	12h 14'	10h 33'	1h 20'	3h 14'	5h 22'	13h 37'
May-4	2h 48'	13h 11'	10h 34'	1h 25'	3h 15'	5h 23'	13h 37'
May-5	2h 52'	14h 11'	10h 35'	1h 31'	3h 16'	5h 25'	13h 37'
May-6	2h 56'	15h 13'	10h 36'	1h 37'	3h 17'	5h 27'	13h 37'
May-7	2h 60'	16h 18'	10h 36'	1h 44'	3h 18'	5h 28'	13h 36'
May-8	3h 4'	17h 22'	10h 37'	1h 50'	3h 19'	5h 29'	13h 36'
May-9	3h 7'	18h 24'	10h 38'	1h 56'	3h 20'	5h 30'	13h 36'
May-10	3h 11'	19h 24'	10h 39'	2h 3'	3h 21'	5h 31'	13h 36'
May-11	3h 15'	20h 19'	10h 40'	2h 10'	3h 22'	5h 32'	13h 35'
May-12	3h 19'	21h 11'	10h 41'	2h 16'	3h 23'	5h 33'	13h 35'
May-13	3h 23'	22h 0'	10h 42'	2h 23'	3h 24'	5h 33'	13h 35'
May-14	3h 27'	22h 47'	10h 43'	2h 31'	3h 25'	5h 33'	13h 35'
May-15	3h 31'	23h 33'	10h 44'	2h 38'	3h 26'	5h 33'	13h 34'
May-16	3h 35'	0h 18'	10h 45'	2h 46'	3h 27'	5h 33'	13h 34'

Topocentric

- This is the observer's coordinates for the celestial objects that changes with the time. It is expressed as Altitude (vertical angle with respect to the Zenith) and Azimuth the angular distance of this vertical from some fixed distance that is usually south and measured in a counter-clockwise direction. The rising and setting of the planets is also given as a guide for local observation.

Topocentric coordinates for local observation

Location: TX-Houston Date: 5-26-2012 Time: 6.23

	Rising	Setting	Altitude	Azimuth
Sun	6.23	20.14	0° 2'	64° 49'
Moon	11.15		-44° 44'	16° 23'
Mars	13.40	2.23	-45° 5'	324° 3'
Mercury	6.19	20.11	0° 46'	65° 24'
Jupiter	5.53	19.25	6° 8'	71° 49'
Venus	7.20	21.29	-10° 17'	52° 1'
Saturn	16.47	4.23	-26° 5'	277° 44'

Note: For planet below the horizon altitude is negative
Azimuth reckoned from south in ccw direction.

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