

The Cycle of Becoming, Quotient Structures, Harmonic Charts, and Arc Transforms, OR ...



How I Discovered and Fell in Love with the Arc Transform!



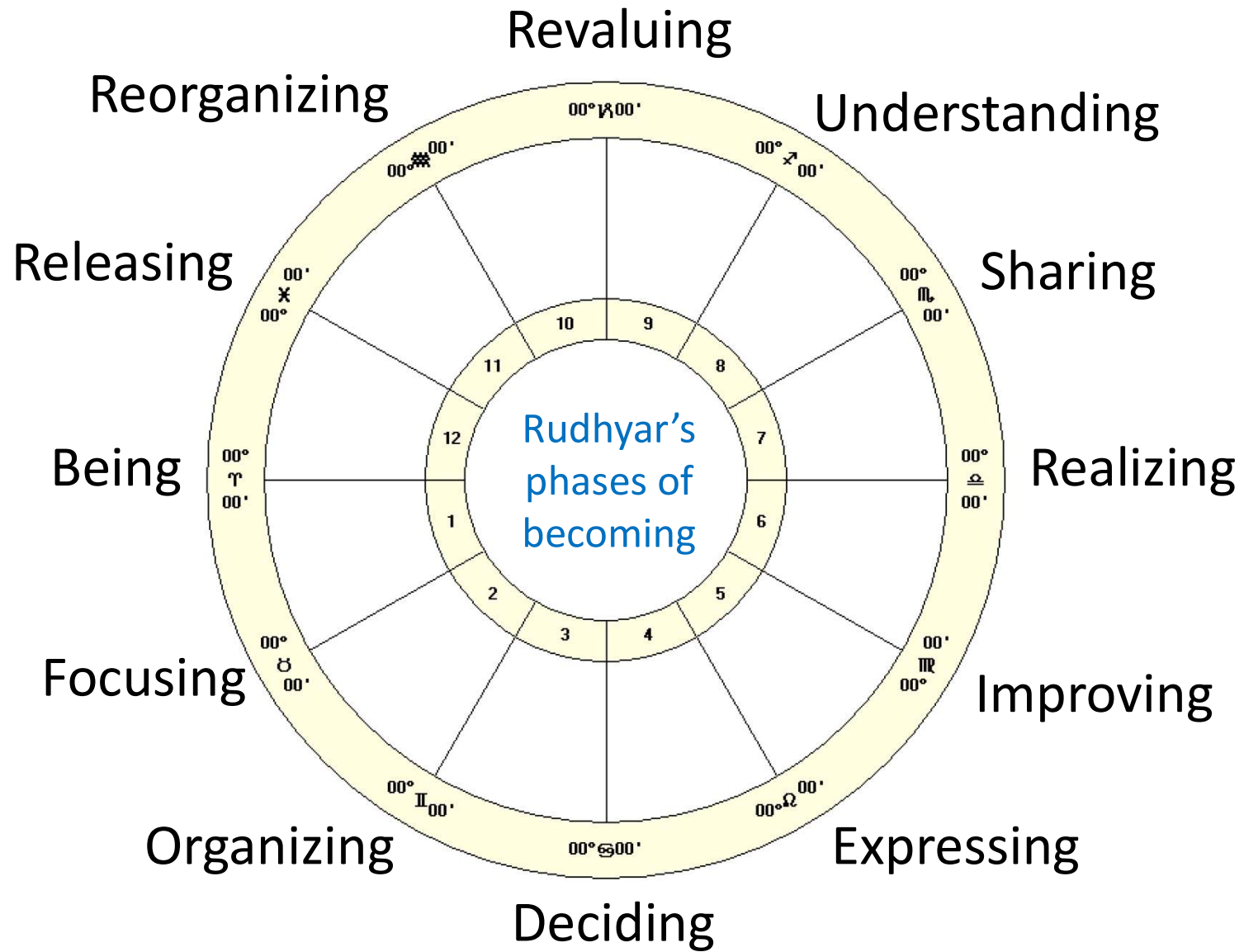
THE CYCLE OF BECOMING

When I first began casting horoscopes in 1970, most people just interpreted sextiles and trines as “good,” squares and oppositions as “bad,” conjunctions as “maybe,” and semisextiles and inconjuncts (quincunx) as “who knows?”

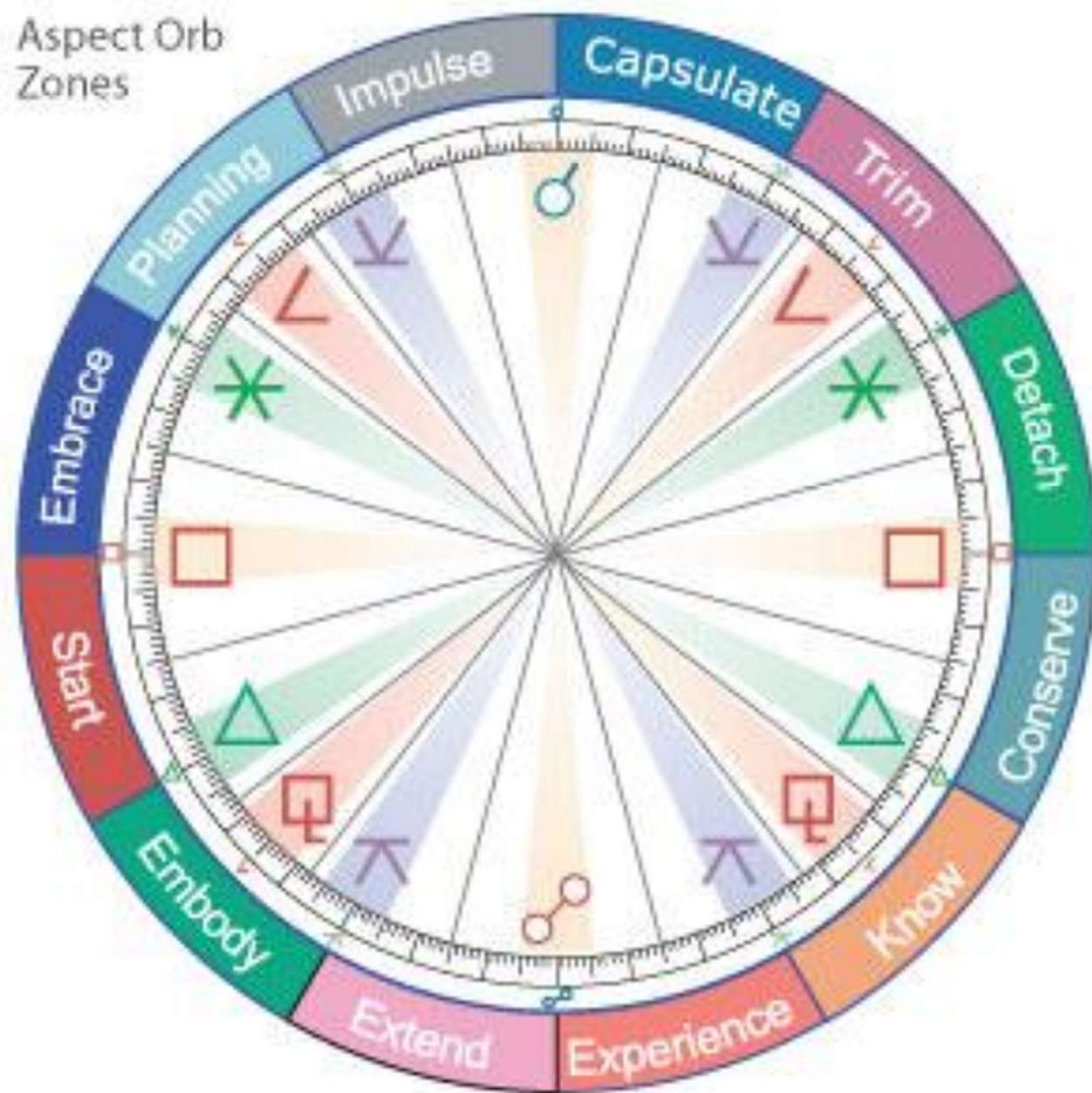
Dane Rudhyar was the first person I knew of who talked about aspects as parts of a larger cycle that begins and ends with the conjunction of two planets.

Thus, it was quite an eye-opener when I discovered his writings.

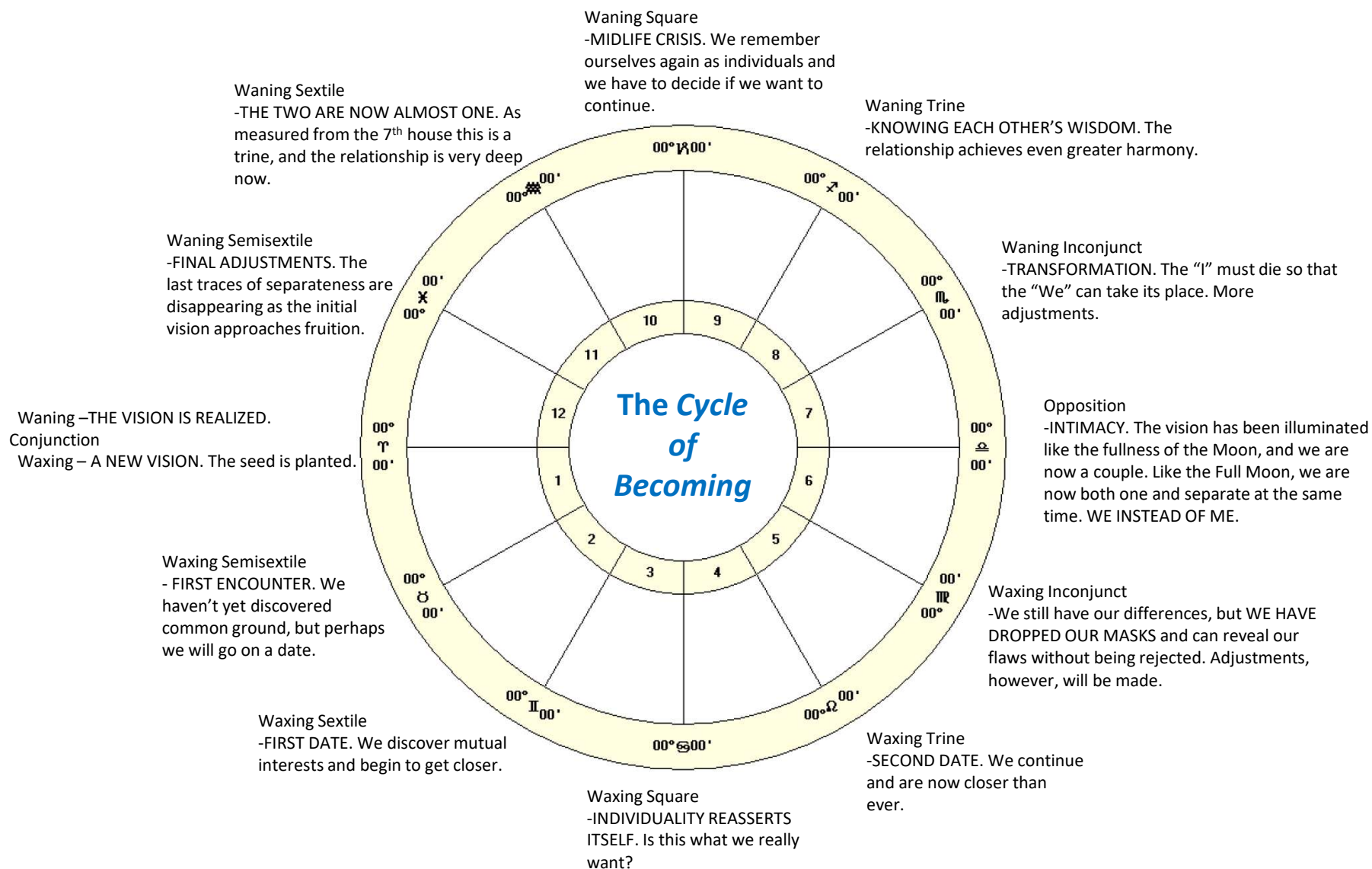
In particular, in his book “Astrological Aspects: A Process Oriented Approach” Rudhyar and his co-author Leyla Rael identified the following stages of any cycle that he refers to as “phases of becoming” ...



Several years later, astrologer Michael Erlewine came up with his own description of the phases of a cycle which he labeled as (1) impulse, (2) planning, (3) embrace, (4) start, (5) embody, (6) extend, (7) experience, (8) know, (9) conserve, (10) detach, (11) trim, and (12) capsulate.

Aspect Orb
Zones

Likewise, I have my own version of this that I call the *cycle of becoming*, and I liken the stages of this cycle to the stages that people might experience in any relationship.



The *cycle of becoming* defines not only the stages of a relationship, but also the forms of expression (signs) and the activities (houses) that support each step of the journey. (*The next two slides you can read on your own.)

Angle	Aspect	Meaning	House	Sign
0 degrees	Conjunction	The relationship begins. All is but a vision, a small seed, at this point.	House 1 - The focus is squarely on the beginning.	Aries - The first sign of the zodiac assists the relationship with its energy.
30 degrees	Waxing Semisextile	After the initial meeting, the two separate with intention to see each other again.	House 2 - The focus of this house is to maintain what was begun in the previous house.	Taurus - This sign is persevering, and the beginning of any relationship is assisted by perseverance.
60 degrees	Waxing Sextile	The two come back together in greater harmony.	House 3 - The focus of this house is to analyze how the relationship is going and to make adjustments toward harmony.	Gemini - This sign assists the relationship through analysis of its progress followed by the necessary adjustments.
90 degrees	Waxing Square	This point is both stable and unstable at the same time. It is stable in the sense that this is a station along the way that things will pause at for a while. But it is also unstable in the sense that tension exists at this point. This is the point at which one will have to decide to either pursue deeper harmony or to sever the relationship completely. Will the relationship continue or will it end? That is the decision that must be made here.	House 4 - This house represents our personal environment, and within this environment we have to set up a hierarchy of what's important to notice and what isn't. If the relationship isn't going to continue, then its importance will be reduced to zero.	Cancer - This sign assists this phase of the relationship by being more sensitive to its surroundings than most of the other signs of the zodiac.
120 degrees	Waxing Trine	This is a point of maximum harmony in the relationship.	House 5 - This house facilitates harmony in the relationship by promoting pleasure, recreation, and personal creativity. It also maintains our perception of our personal environment by relieving stress. When we are overcome with stress, our ability to correctly perceive elements of our environment is impaired.	Leo - This sign puts the most focus on our self. How does this assist the harmony of the relationship? Because the closer we get to understanding who we really are, the more love and unity we will feel since our awareness is an undivided whole. By aligning with our real self, we are aligning with the source of our life and creativity.
150 degrees	Waxing Inconjunct	The two are close enough that they can now be around each other without having to wear their masks. Additional adjustments, however, will likely have to be made before the culmination of the relationship.	House 6 - This house is traditionally associated with health and employment. In actuality, it is a feedback house for the first six. In this house, personal karma is met, corrections are made, and this usually takes work and may also involve some illness.	Virgo - This sign assists with this phase of the relationship through its attention to minutia and the details of any situation. By striving for perfect order, Virgo sets the stage for the final flowering. Also, since Virgo is ruled by Mercury, this suggests that at this point the adjustments have to be made by the verbal, left hemisphere of the brain.

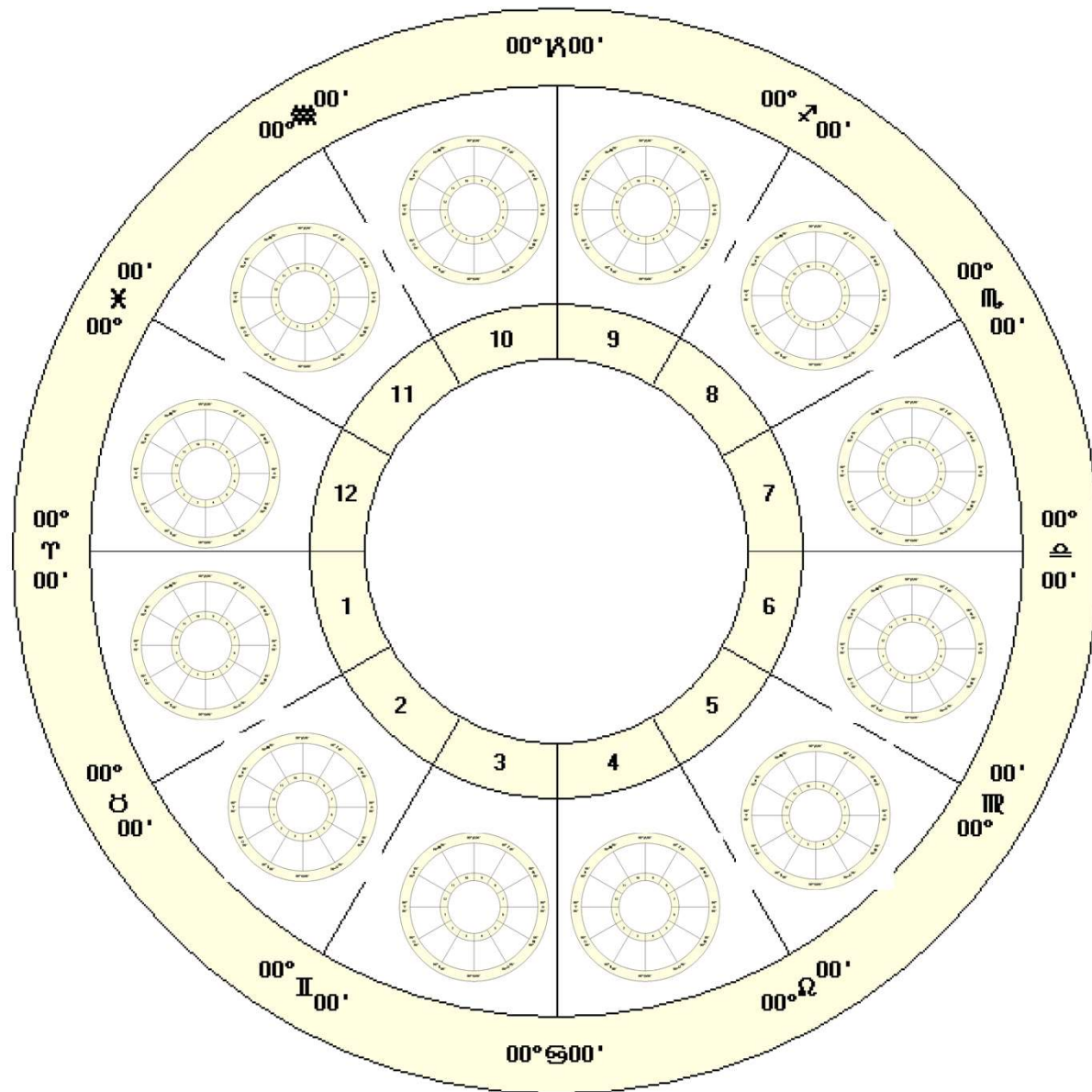
Angle	Aspect	Meaning	House	Sign
180 degrees	Opposition	Like the Full Moon in the Lunar cycle, the opposition represents the peak of the relationship. At this point both the union and the individuality are experienced with equal force. The other and the self are being integrated to form the "we."	House 7 - This is traditionally the house of marriage and partnerships, and this facilitates the integration of opposites that the opposition wants to achieve.	Libra - This sign is ruled by Venus, and it is social and seeks harmonious relationships with others. This form of expression facilitates the goal of the opposition.
210 degrees	Waning Inconjunct	At the waning inconjunct, the opposition has been experienced and passed, and now the focus is on maintaining the "we."	House 8 - This is traditionally the house of death and transformation. However, it is also the second house when counting from the seventh, and so it works to maintain the union that flowered at the opposition. To maintain the union, however, the ego and the sense of separateness from the other must die and be transformed. This is how House 8 assists this stage of the relationship. Also, since the eighth house is the second from the seventh, it rules the resources needed by the relationship.	Scorpio - This sign is introverted and feeling-oriented, and it is ruled by Pluto. This means that Scorpio has very strong emotions and feelings, and it is this sort of strength of attachment that is needed in order to convince the self to abandon separateness in favor of union. Additionally, because of the strong emotions and feelings that are involved at this point of the relationship, any adjustments to be made will be more right brain than left brain. More related to feelings than verbal thoughts.
240 degrees	Waning Trine	At the waning trine the two are now one as they reside in great harmony.	House 9 - The ninth house traditionally rules religion, higher learning, and long distance traveling. These are all activities that expand our perspective. Also, the ninth house is the third from the seventh, and as such it represents the group mind or the mind of the other. This suggests that in order to have a strong relationship we must not only know ourselves, we must also deeply know the other person.	Sagittarius - This sign is ruled by Jupiter, and, thus, it is all about growth and expansion. It is also extroverted and feeling oriented, and its exuberance facilitates this phase of the relationship.
270 degrees	Waning Square	At the waning square, individuality reasserts itself one more time. Perhaps it is a midlife crisis. Perhaps the union was never meant to be afterall. However, if this last crisis is successfully traversed, then the union will be headed toward its final completion.	House 10 - Houses 4 & 10 both create crises for the relationship because attention is being directed to other things, either the personal environment or the social environment. Consequently, in these houses there is a danger of being pulled away from the relationship into something else. However, a balance between competing interests can always be found.	Capricorn - This sign is an earth sign (introverted-thinking), and it is ruled by Saturn which seeks to control and regulate things. This personality type seeks to control the social environment as represented by the tenth house, and through control one can increase one's status. However, such inclinations towards control can also facilitate a crisis in the relationship.

Angle	Aspect	Meaning	House	Sign
300 degrees	Waning Sextile	The waning sextile is also a waxing trine when measured from the seventh house. This is a point at which midlife crises have been successfully maneuvered, and the union is stronger than ever.	House 11 - Traditionally, this is the house of friends, hopes, and ambitions. It is actually a house that is associated with group activities and group creativity, and this also suggests that we can create great harmony in society if we only work together.	Aquarius - This sign is opposite Leo which is focused primarily on the self. Hence, as its opposite, Aquarius is focused more on the collective rather than the individual, and this focus on the collective fosters the sense of "we" that is now very strong in the relationship.
330 degrees	Waning Semisextile	The waning semisextile is the last station before the completion of the cycle. At this point everything is being left behind that does not conform to the perfect union.	House 12 - Traditionally known as the house of self-undoing and hidden enemies, the twelfth house is really about a withdrawal from manifestation as the cycle nears completion. Every cycle we undergo is about learning something, and once the task is complete, the knowledge remains, but the vehicle can be jettisoned. House 12 is also the sixth as measured from House 7, and so it speaks to those minor adjustments that must be made in order to complete the original vision.	Pisces - This sign is ruled by Neptune which dissolves the boundaries that define many of our perceptions. This facilitates the withdrawal from action that occurs as the task is completed.

One of the things we learn from this *cycle of becoming* is that the stages of this cycle also define aspects, signs, and houses within a horoscope. Here are some other important lessons we can draw from this cycle.

The zodiac is defined by the phases of a cycle, and not by constellations. Furthermore, every cycle defines its own zodiac.

In particular, the 360° *cycle of becoming* is comprised of twelve subcycles of length 30° each.

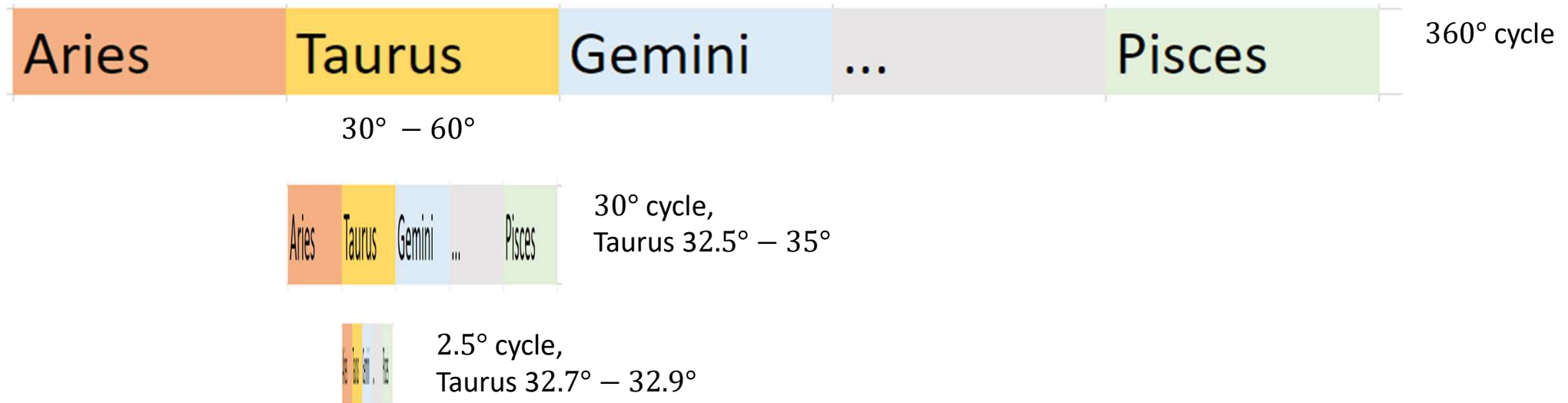


We can replace each 30° sign with its own zodiac. In practice, there are two ways this is often done, and each way works in particular situations.

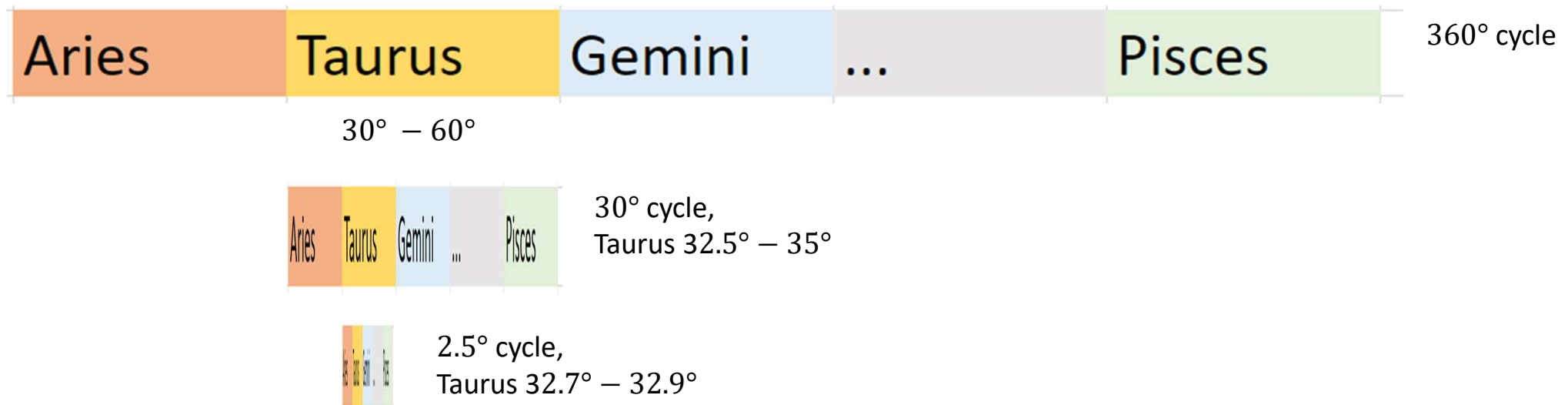
One way to do this is to begin each sign with a zodiac that starts at Aries and where each sign in this subcycle occupies $2.5^\circ = \frac{30^\circ}{12}$. I call this the *generic way* to superimpose a zodiac upon a cycle.

We could also add another subcycle to this by dividing each 2.5° segment into even smaller segments of length $0.208\overline{3}^\circ = \frac{2.5^\circ}{12}$.

When we do so, we get something like the following ...



If we continue this process *ad infinitum*, then we can imagine winding up at the point of the zodiac that is the “most Taurus.”



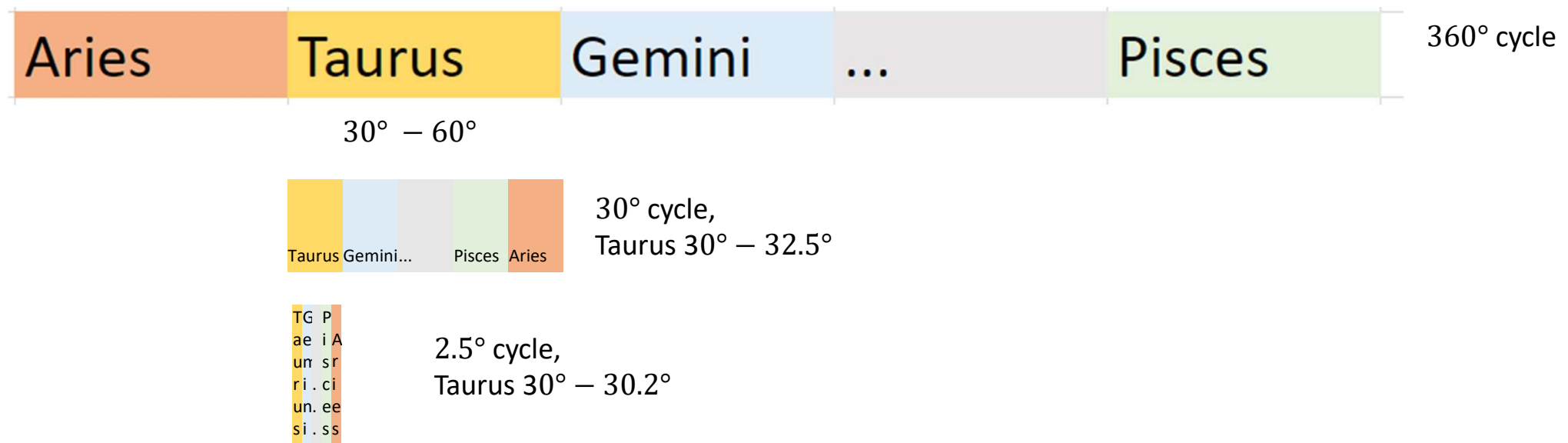
Fortunately, we can mathematically derive a simple formula that can be used for this. Under this scheme, the point in the zodiac that is most representative of each sign is located at $360^\circ \left(\frac{n}{11} \right)$ where n represents the number of 30° segments that precede the start of the sign.

And here are the results for each sign. Interestingly, the quintessential point for Pisces is also the first point of Aries under this scheme.

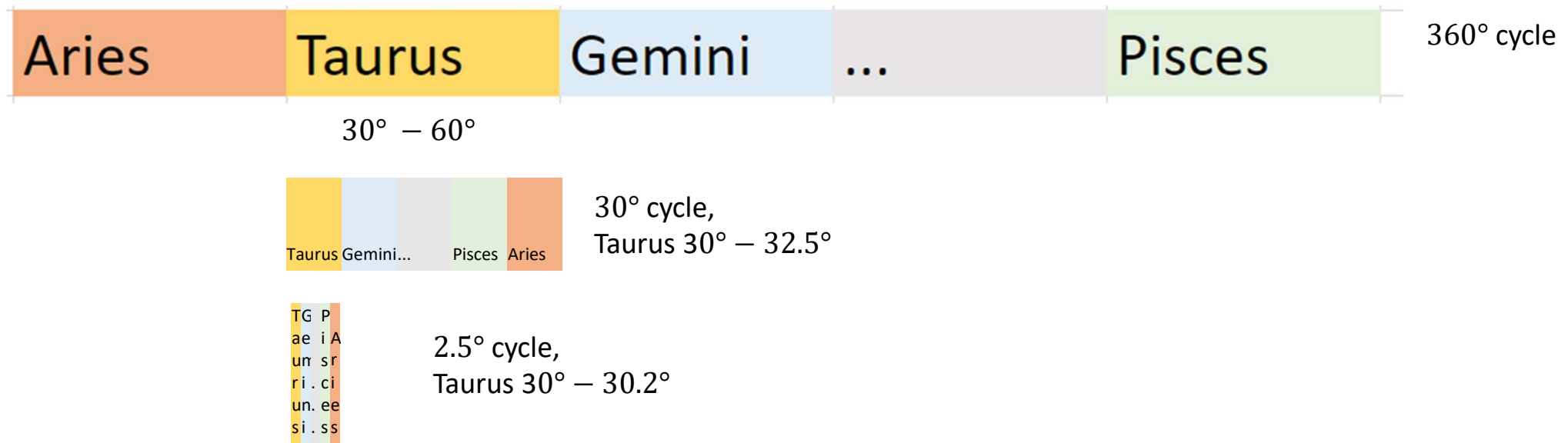
SIGN	VALUE FOR n	$(360)(n/11)$	THE "ESSENCE" POINT
Aries	0	0	0 Aries
Taurus	1	32.72	2 Taurus 44
Gemini	2	65.45	5 Gemini 27
Cancer	3	98.18	8 Cancer 11
Leo	4	130.90	10 Leo 55
Virgo	5	163.63	13 Virgo 38
Libra	6	196.36	16 Libra 22
Scorpio	7	229.09	19 Scorpio 5
Sagittarius	8	261.81	21 Sagittarius 49
Capricorn	9	294.54	24 Capricorn 33
Aquarius	10	327.27	27 Aquarius 16
Pisces	11	360	0 Aries

However, another way to subdivide a sign into another zodiac is by using the *dwadasama* system of Vedic astrology. In this system, each *dwad* consists of 2.5° , and the first *dwad* of each sign begins another zodiac with that same sign. Thus, the first *dwad* of Aries represents Aries, the first *dwad* of Taurus represents Taurus, and so on. Using this *dwad* system, the point that is most representative of each sign is the beginning point of that sign.

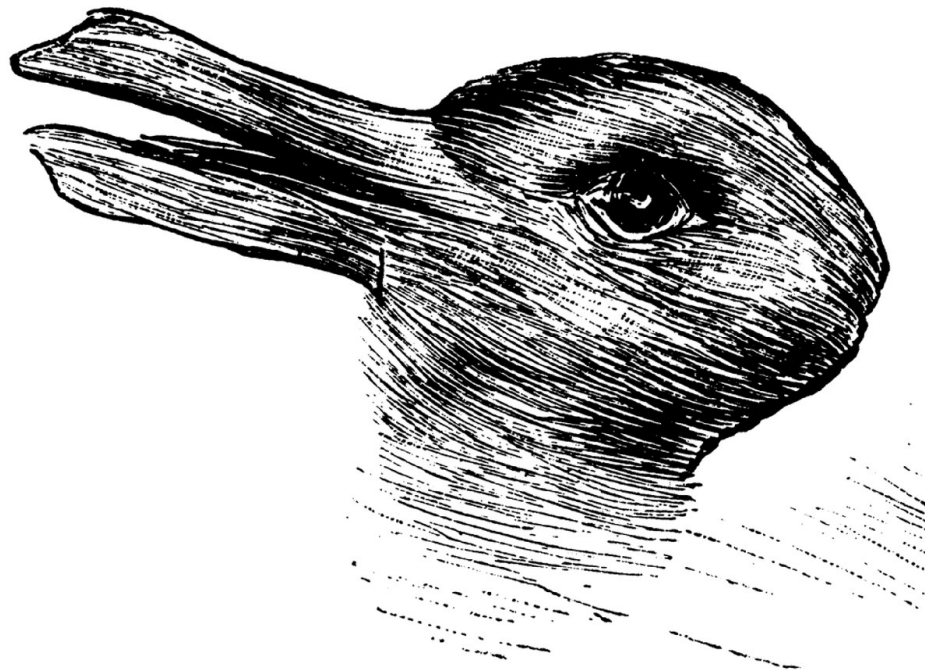
Below is an illustration that shows that in the *dwadasama* system that the point that is the most Taurus is the starting point for that sign.



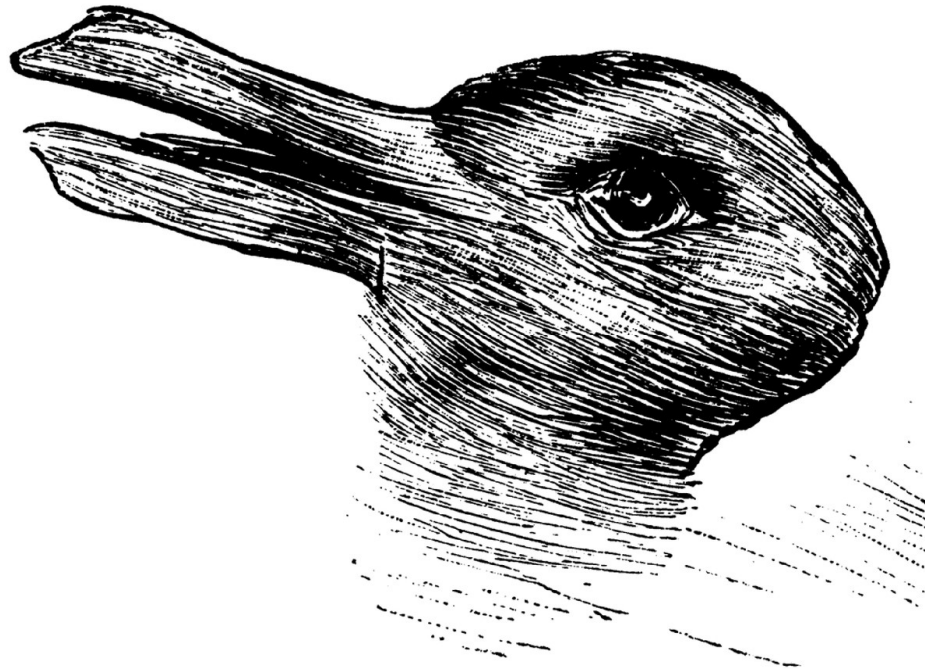
Likewise, the point that is most Gemini is 0 degrees Gemini, the point most Cancer is 0 degrees Cancer, and so on.



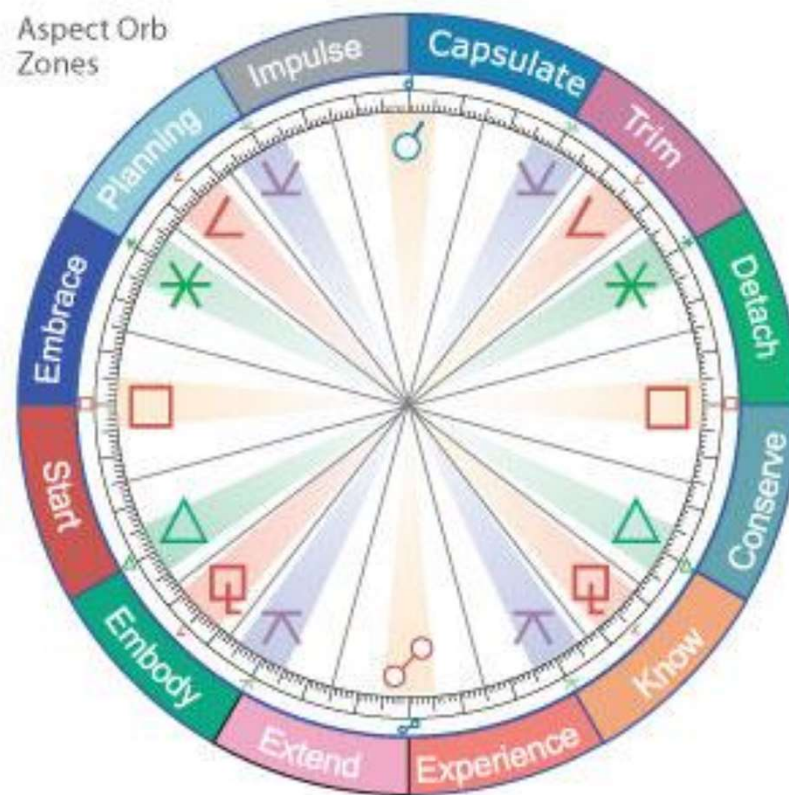
It may seem contradictory to have two different ways to impose a zodiac upon a cycle, but just like the image below can be seen as either a duck or a rabbit, so can different systems of astrology all be valid at the same time (in my opinion).



Thus, different zodiacs, different house systems, different coordinate systems, and different ways to subdivide an astrological sign into another zodiac can all be valid just as the image below is both a valid duck and a valid rabbit.



The bottom line, though, is that every cycle defines a zodiac, and the end goal of every astrological aspect is the oneness of that final union.



QUOTIENT STRUCTURES

In mathematics we usually think of “union” as meaning to combine one collection with another, resulting in an even larger collection such as when we combine odd counting numbers with even counting numbers in order to get the collection of ALL counting numbers.

$$\{1,3,5,7, \dots\} \cup \{2,4,6,8, \dots\} = \{1,2,3,4,5,6,7,8, \dots\}$$

However, there exists another kind of union where the *“two become one.”* This is the type of union between spouses that is described in the Bible.

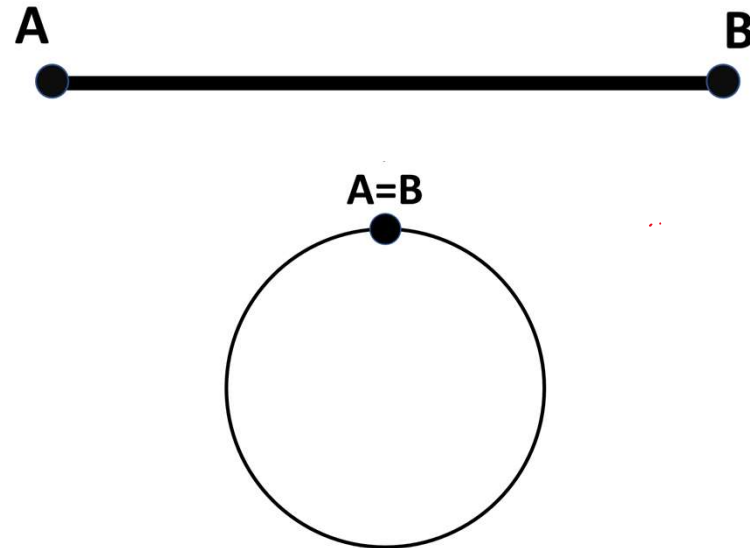
Therefore a man shall leave his father and his mother and hold fast to his wife, and they shall become one flesh. (Genesis 2:24)

Therefore, a man shall leave his father and his mother and hold fast to his wife, and the two shall become one flesh. So they are no longer two but one flesh. (Matthew 19:5)

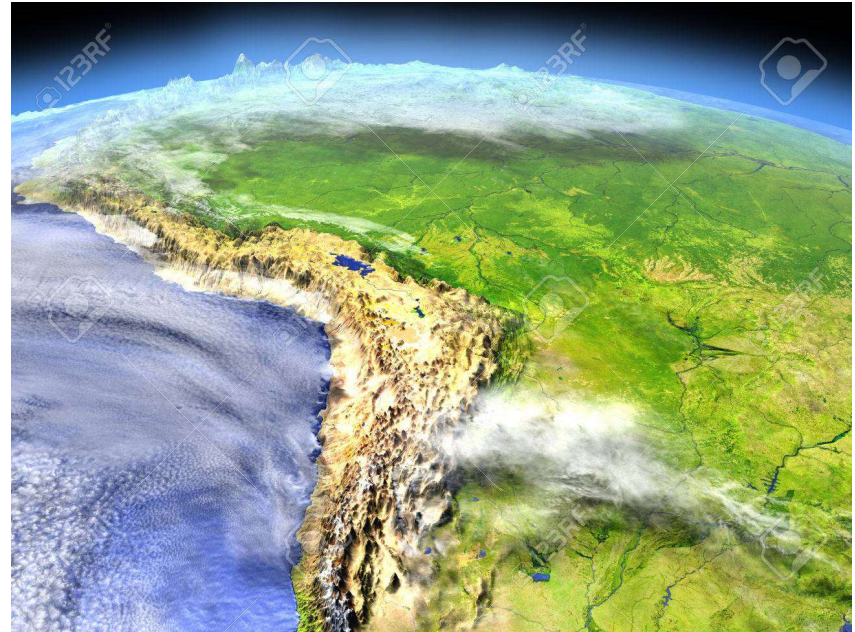
In mathematics we call this type of union (the “*two become one*” union) a *quotient structure* because we like to think of it in terms of some individual differences being divided or canceled out.

$$\frac{6}{2} = \frac{2 \cdot 3}{2} = \frac{\cancel{2} \cdot 3}{\cancel{2}} = 3$$

For example, in mathematics we can turn a line segment into a circle by “*dividing out*” the difference between the endpoints. The circle can then be thought of as a “*quotient*” of the line segment



To give another example, we can think of the “forest” as the *quotient structure* that results when we no longer make any distinction between the “trees.”



Any time that pieces of a puzzle come together, the end result is a *quotient structure* where we see the whole instead of the individual parts.



Similarly, when the pieces of some puzzle in our mind come together to form an epiphany or “aha” moment, we are mentally creating a *quotient structure*.



Likewise when “seat,” “legs,” and “back” come together to form a “chair,” that chair can also be thought of as a *“quotient”* of its component parts.



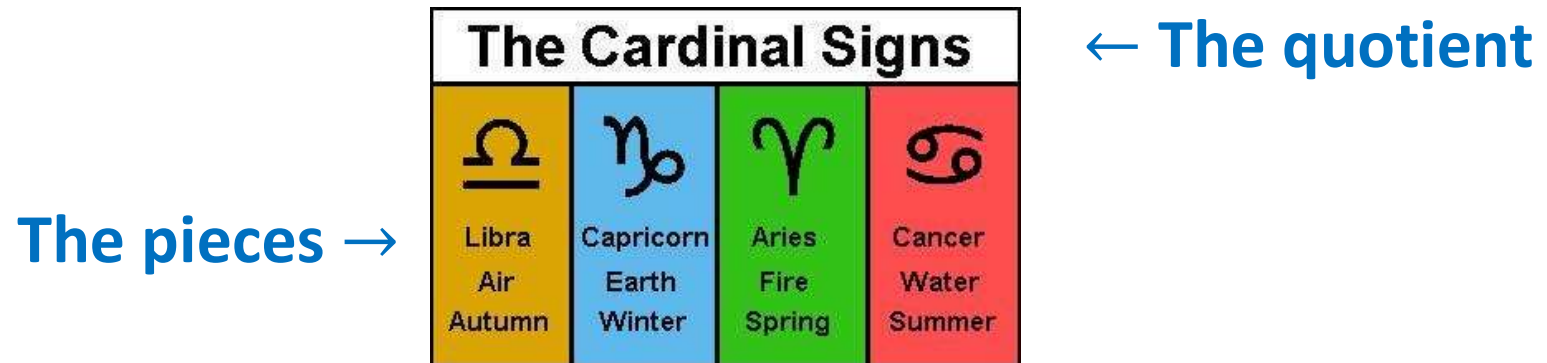
Another way to think about quotient structures is in terms of boxes that things are tossed into. If everything goes into one and only one box, then when we are at the “box” level and are making no distinction between the contents of any given box, then we have formed another *quotient structure*.



We do this all of the time both in and out of astrology. For example, when we lump all people of a given sign together, we are forming a *quotient structure*.



In a similar way, if we make no distinction between the signs Aries, Cancer, Libra, and Capricorn, then we've created a particular *quotient structure* that within astrology is known simply as “cardinal.”



The “pieces” are always the *component parts*, and the “whole” is always the *quotient*. For example a car is a whole or *quotient* that is comprised of hundreds of parts.

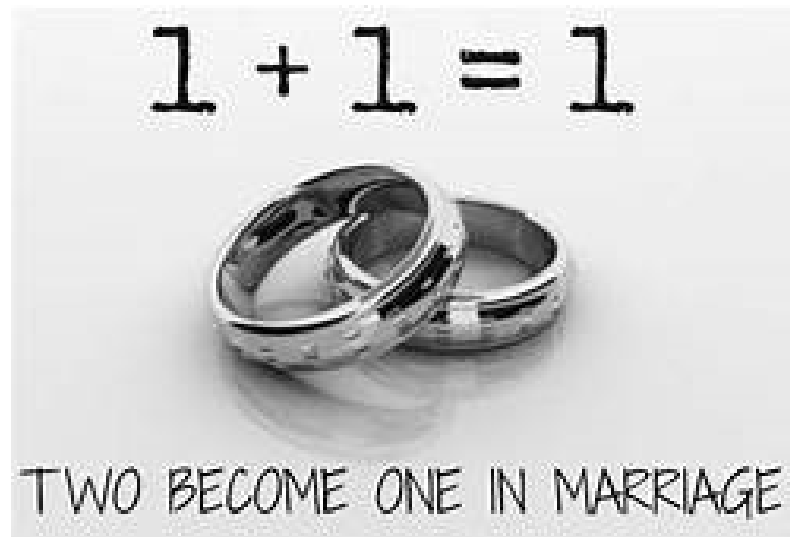


In summary, whenever the pieces of any puzzle come together or whenever we group things into categories, we are forming *quotient structures*, and *quotient structures* can be a unifying concept in astrology that can help us better understand many things.

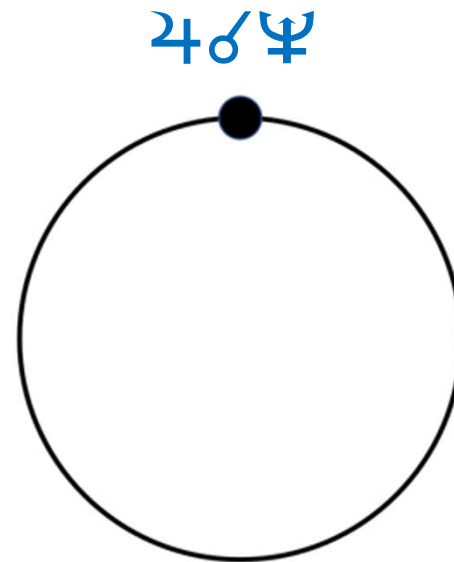
There are lots of things in astrology that can be thought of as *quotient structures*, and below is a table illustrating some astrological pieces that come together to form quotients.

PIECES	QUOTIENT
People born between May 21 and June 20	Gemini
Gemini, Libra, and Aquarius	Air Signs
The twelve signs	The Zodiac
The experiences accrued at each of the phases of a cycle	The integration of these experiences at the final conjunction/union

Remember that astrology is all about cycles, and the end game of every cycle is union. Furthermore, this isn't the "let's make a bigger collection" type of union. This is the *"two become one"* type of union.

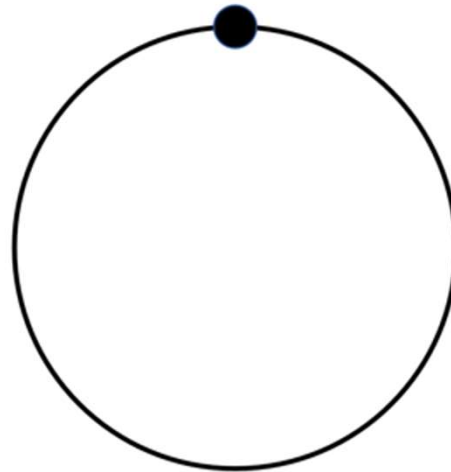


We may be born with Jupiter square Neptune,
but this is but one step toward a final goal of
Jupiter conjunct Neptune.



Again in summary, astrology is a science of cycles, and the goal of every astrological cycle is to form a *quotient structure* that represents the blending of planetary meanings in that final conjunction. This goal is important to keep in mind.

♂♂♂



HARMONIC CHARTS

Harmonic astrology can be very deep, but the simplest application of a *harmonic chart* is to identify particular aspects by turning them into conjunctions in the appropriate *harmonic chart*. For example, a *2nd harmonic chart* turns oppositions into conjunctions, a *3rd harmonic chart* turns trines into conjunctions, a *4th harmonic chart* turns squares into conjunctions, and so on.

The calculations below show the relationship between specific **angles** and their *harmonics*.

$$\text{Angle} \rightarrow 180^\circ = \frac{360^\circ}{2} \quad \leftarrow \text{Harmonic}$$

$$120^\circ = \frac{360^\circ}{3}$$

$$90^\circ = \frac{360^\circ}{4}$$

If n is a counting number like 1, 2, 3, and so on, then I call the angle $\frac{360^\circ}{n}$ the *root n^{th} harmonic*.

$$\text{Root } 3^{rd} \text{ harmonic} \rightarrow 120^\circ = \frac{360^\circ}{3} \quad \leftarrow \text{Harmonic}$$

$$\text{Root } 4^{th} \text{ harmonic} \rightarrow 90^\circ = \frac{360^\circ}{4} \quad \leftarrow \text{Harmonic}$$

To generate all the angles for a given *harmonic*, just keep adding the root *harmonic* angle to itself until you arrive via “clock arithmetic” back at 0° .

2nd harmonic angles $\rightarrow 180^\circ, 360^\circ = 0^\circ$

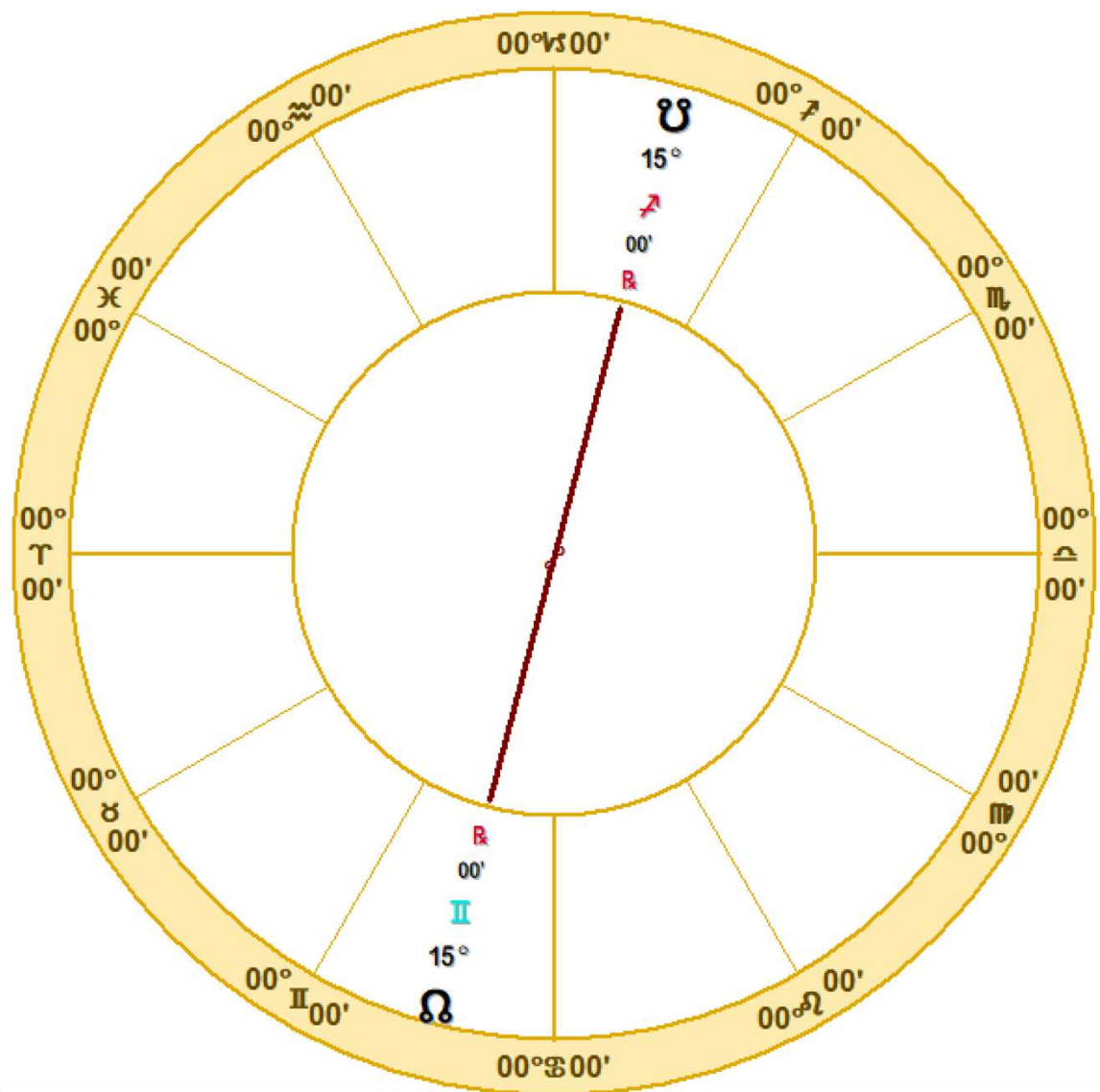
3rd harmonic angles $\rightarrow 120^\circ, 240^\circ, 360^\circ = 0^\circ$

4th harmonic angles $\rightarrow 90^\circ, 180^\circ, 270^\circ, 360^\circ = 0^\circ$



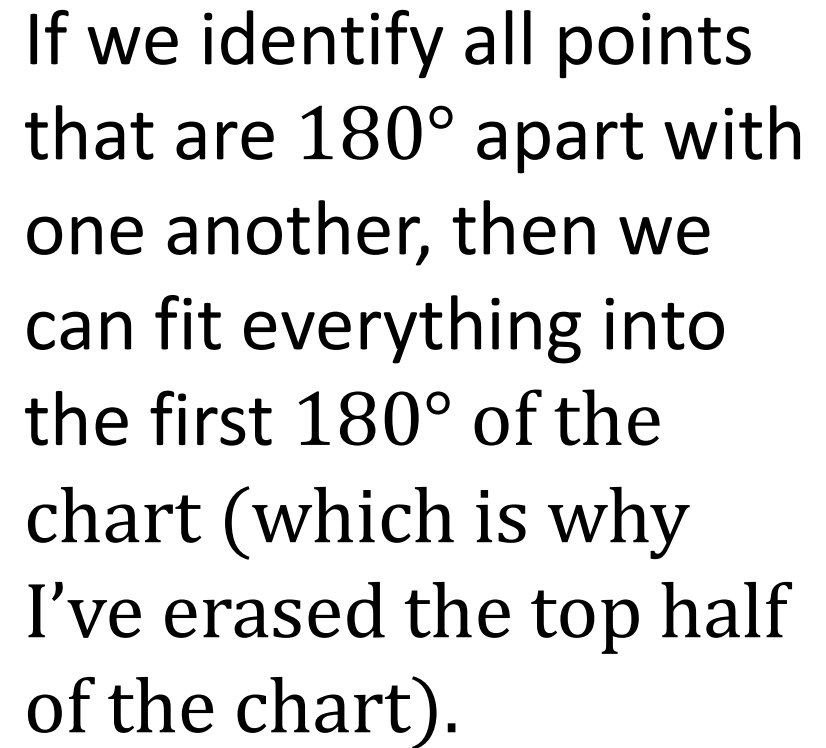
Root harmonic angle

So now that we know what a *harmonic angle* is,
how do we create a *harmonic chart* and what
does this have to do with *quotient structures*?

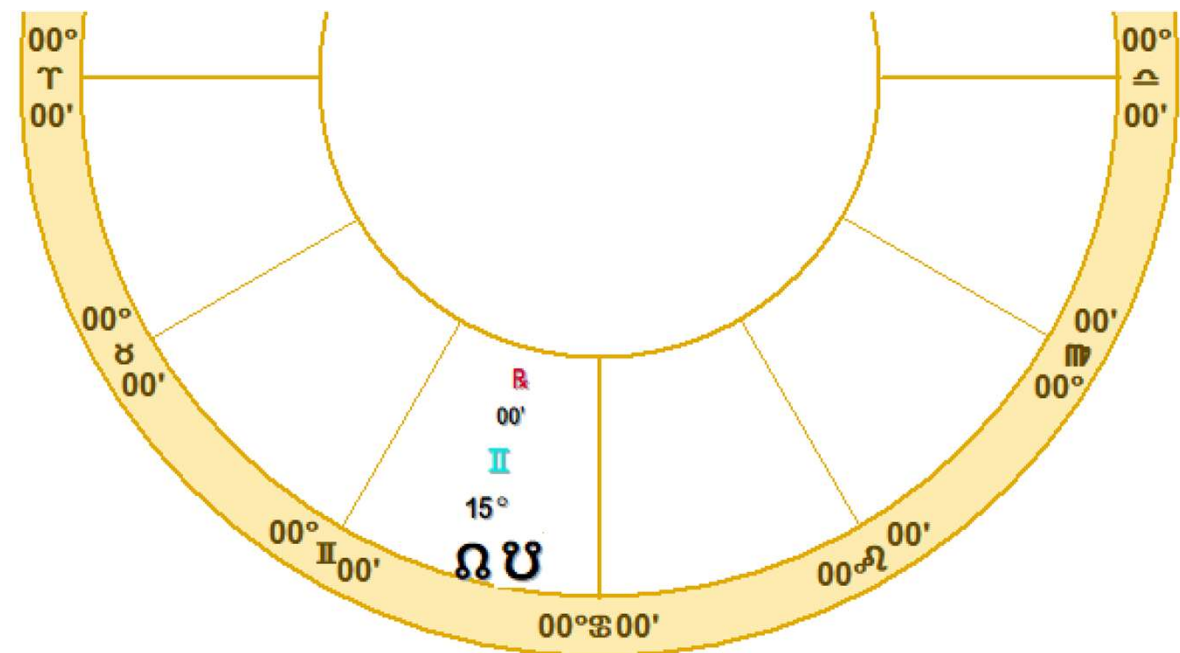


To create, for example, a 2nd harmonic chart, we identify all points that are 180° apart with one another. For instance, consider the chart to the left that has North Node at 15° ♈ and South Node at 15° ♋.

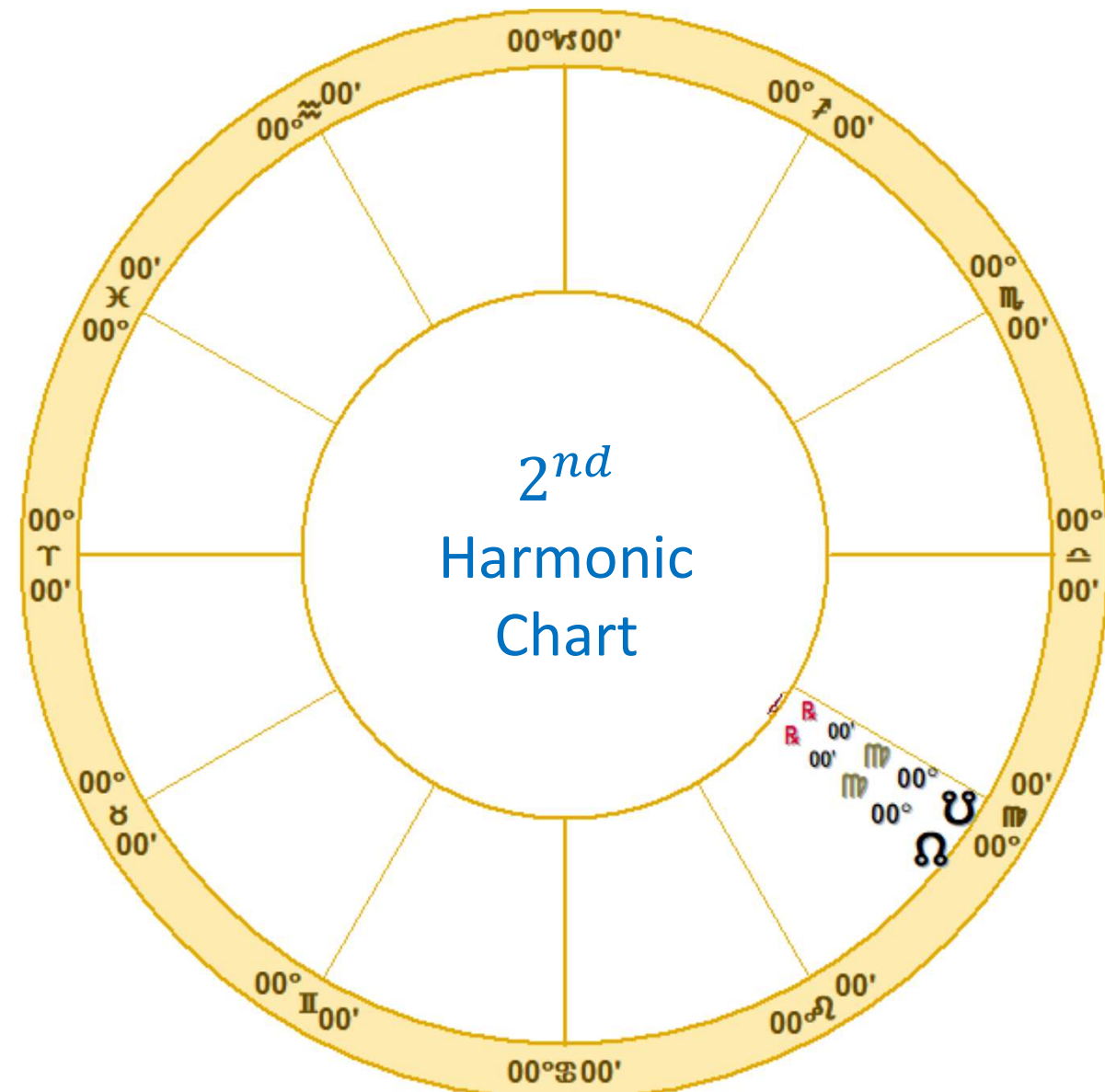
If we identify all points that are 180° apart with one another, then we can fit everything into the first 180° of the chart (which is why I've erased the top half of the chart).



?



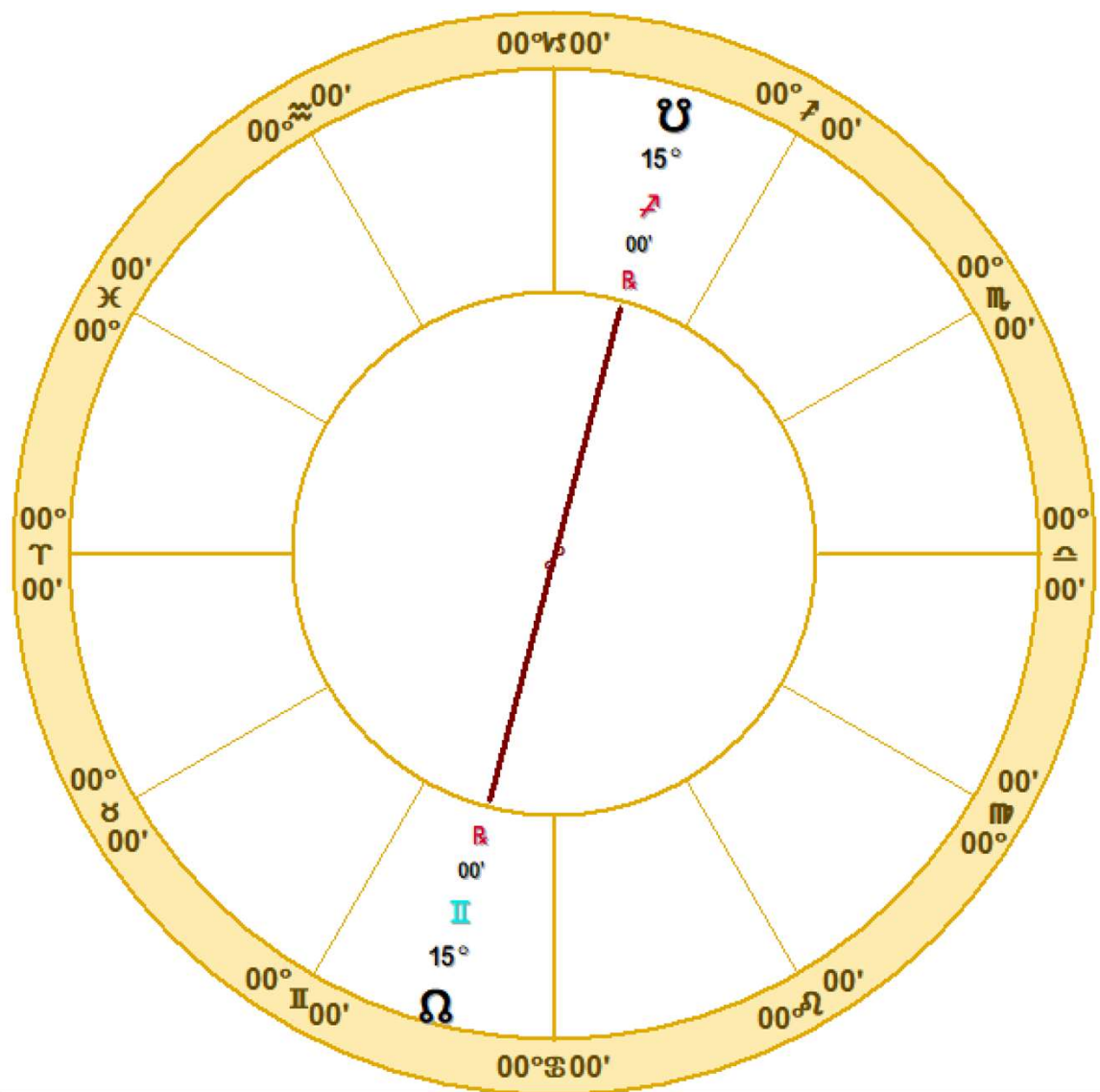
However, we very much prefer to work with charts that go from 0° to 360° instead of just 180° , and so we stretch things out by multiplying all our zodiac positions by 2. Furthermore, since our nodes are 75° from the start of Aries, they will be 150° from Aries in our final *2nd harmonic chart*.



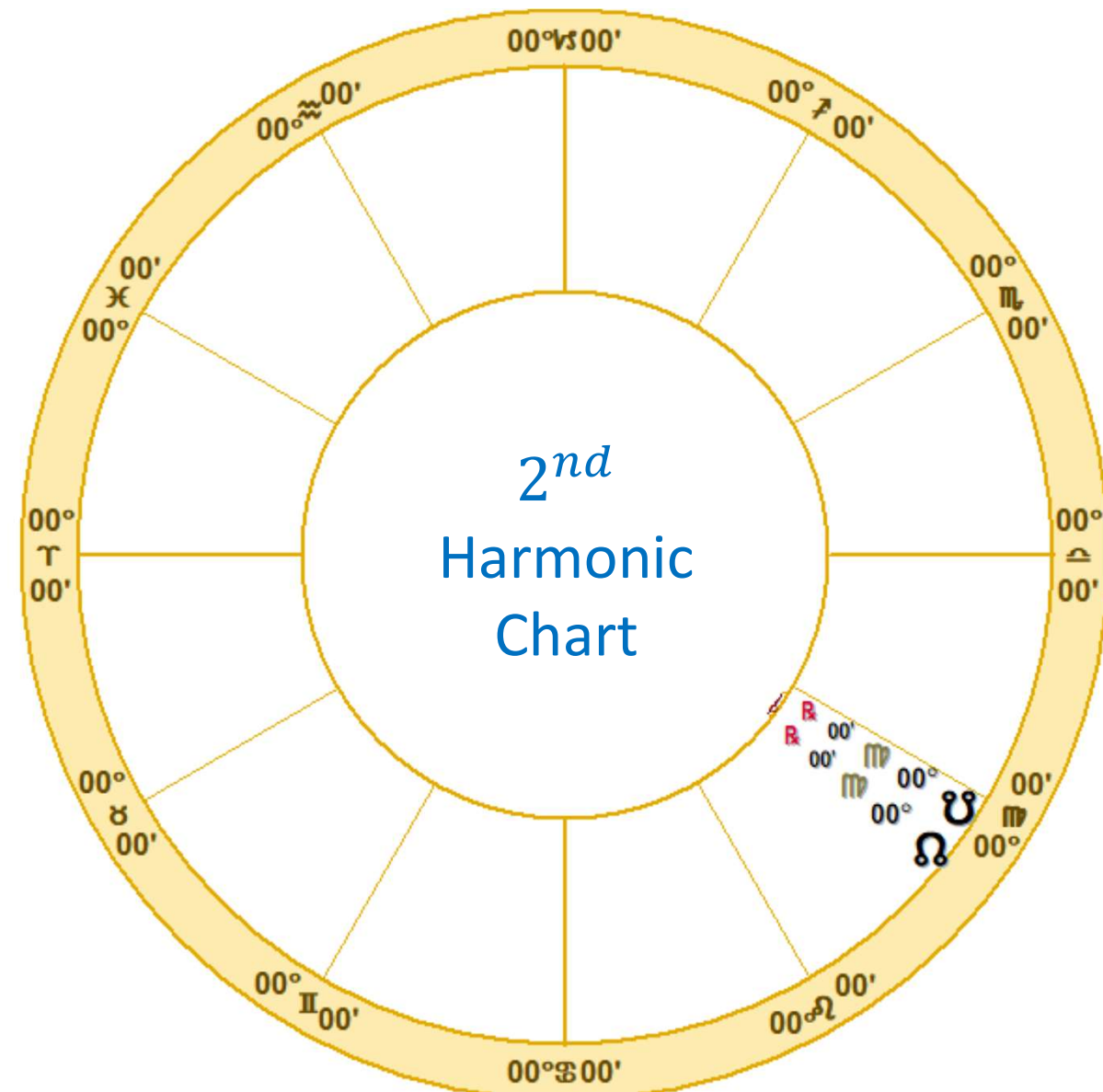
And here is the final result! As expected, both the North and the South Node are now conjunct and 150° away from the start of Aries, and 150° corresponds to 0° ♎.



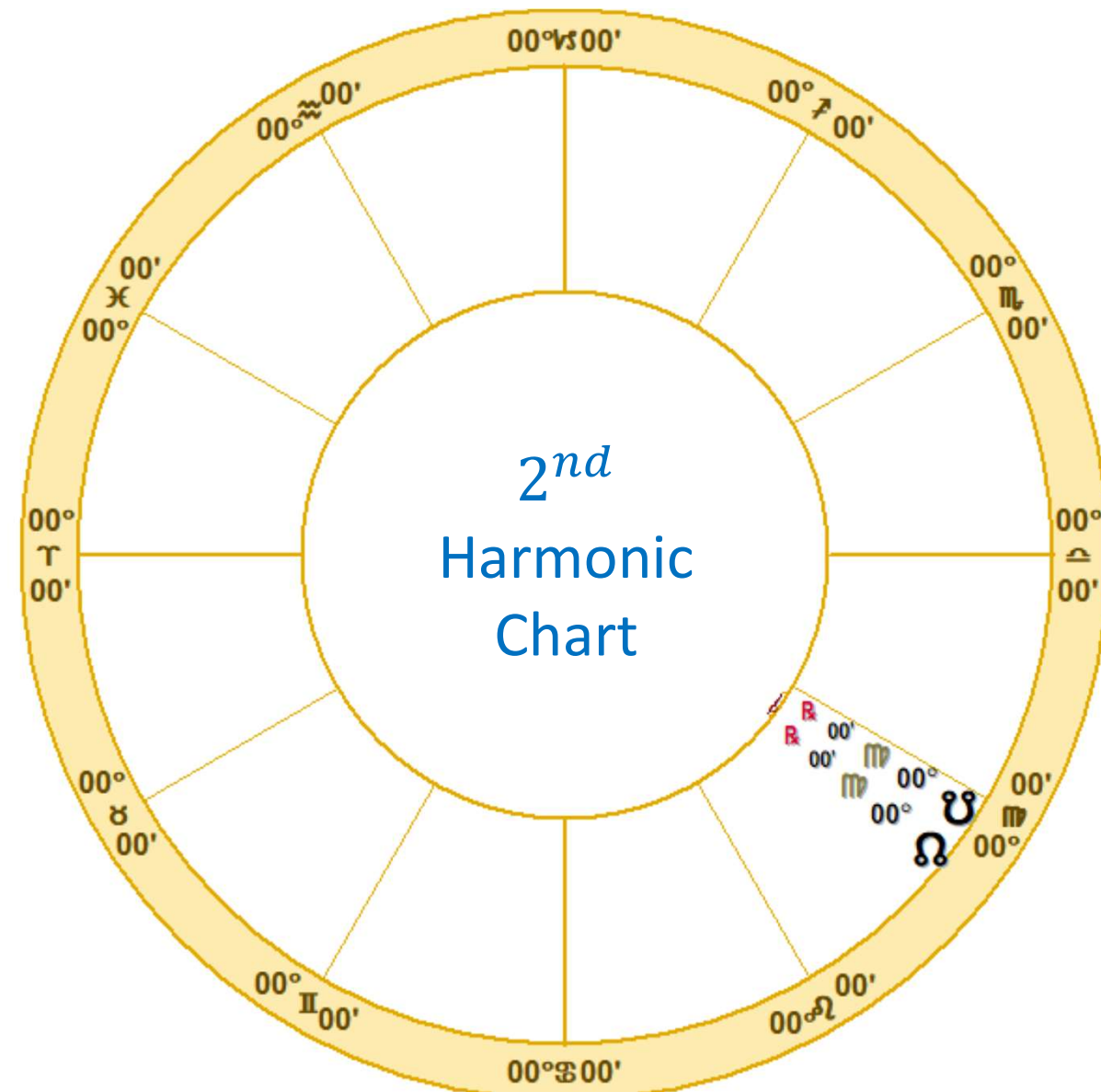
A computational shortcut that works with all *harmonics* is to first represent each planetary position in terms of its absolute distance from 0° Aries, multiply by the *harmonic*, and then express the result as an angle from 0° to 360°.



We've already seen what happens when we do this for our original North Node. We get $2(15^\circ \text{II}) = 2(75^\circ) = 150^\circ = 0^\circ \text{M}$. For the South Node we have $2(15^\circ \text{XII}) = 2(255^\circ) = 510^\circ = (510 - 360)^\circ = 150^\circ = 0^\circ \text{M}$.

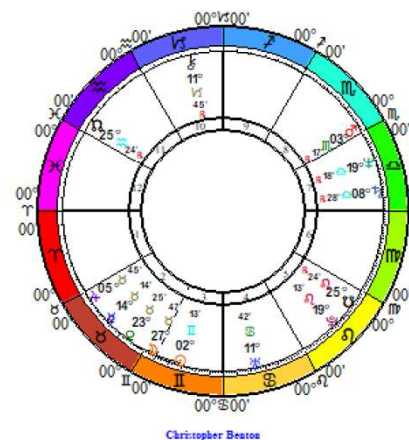


When we create a *2nd harmonic chart*, it is a *quotient structure* because the difference between any two points that are 180° apart in the original chart is “divided” out. The “*two become one.*”

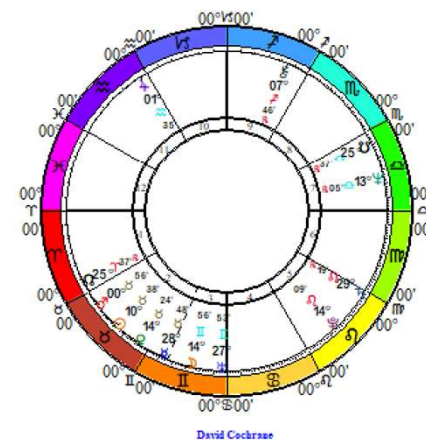


And why is it important for someone like me to think of *harmonic charts* as *quotient structures*? Simply because there is a whole lot of previously developed mathematics surrounding this concept, and the more mathematics I can bring into my models, the more tools I have for achieving a deep understanding of what's going on!

And now let's get ready to look at a few *harmonic charts*. But first let me mention David Cochrane. He is one of the very top astrologers in the world, and he is the founder and CEO of Cosmic Patterns software that now sells both Sirius, Winstar, and other software packages for astrological research. He has a bachelor's degree in psychology and a masters in data analysis, and in my opinion he is the current **Sorcerer Supreme** when it comes to *harmonic charts*, midpoints, and evidence-based astrology. Also, his and my horoscopes look a lot alike.



Christopher Beaton



David Cochrane



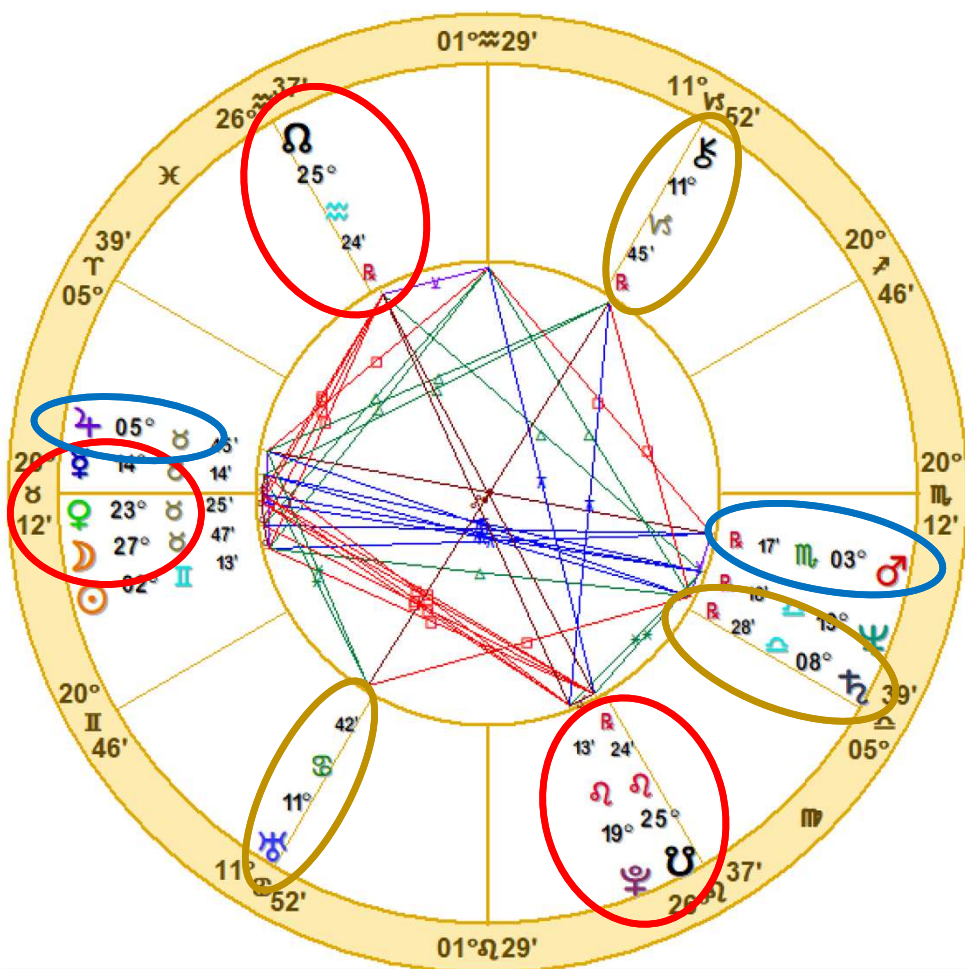
In David Cochrane's free ebook on the first 32 harmonics, we find the following regarding the 4th *harmonic*.

“The 4th harmonic shows how we deal with stress, strain, and struggle (Marks). It indicates resistance and matter (Godefrey). It Indicates the basic challenges and things the person wishes to achieve, and that the person feels are important to become better at, rectify, or improve.”

To this I would add the following point.

With all n^{th} *harmonic charts* we are creating a quotient structure in which, for the given value of n , all of the n^{th} *harmonic angles* are made equivalent to zero. Thus, in a 4^{th} harmonic chart the angles of 90° , 180° , and 270° are all made equivalent to 0° which, in turn, is the union that represents the end goal of the *cycle of becoming*.

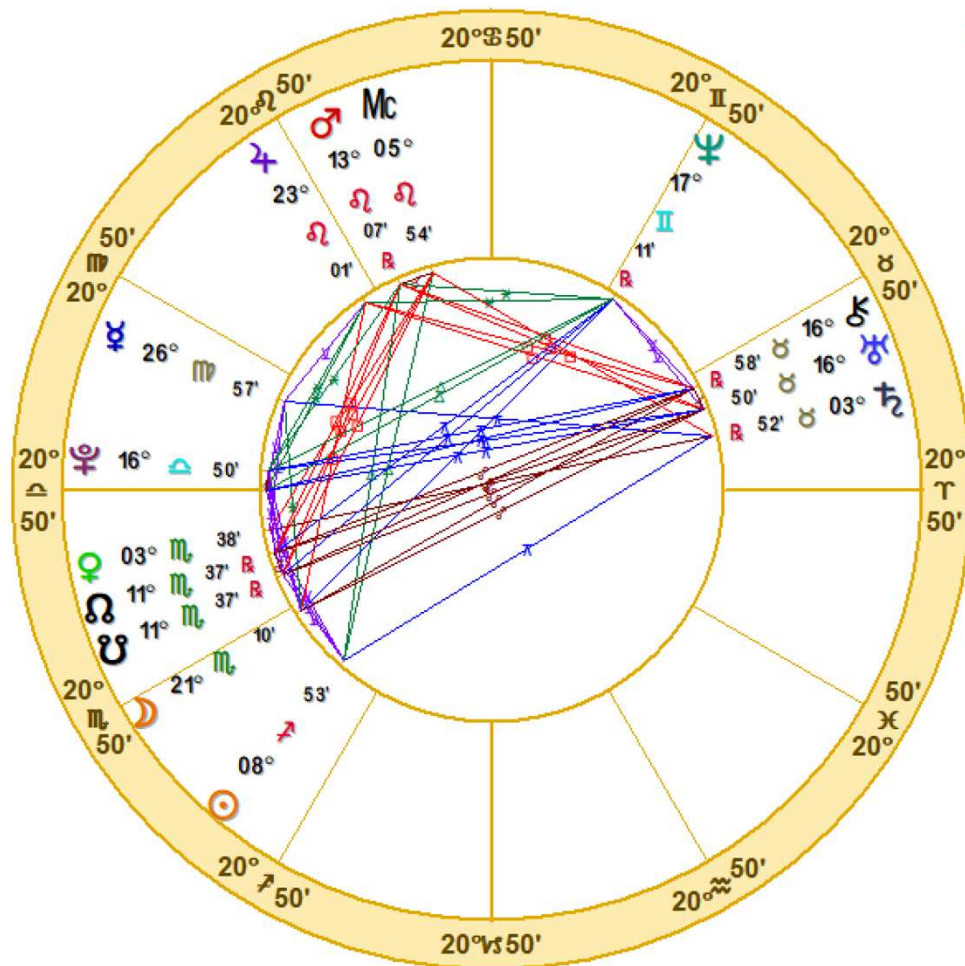
Hence, if our natal chart has two planets that are square one another, then in the 4th harmonic chart this square will be turned into a conjunction. But that conjunction also represents the end of the cycle that those two planets are involved in. Thus, in my opinion, the 4th harmonic chart represents not so much what adversity lies ahead of us as it does who we will be once we have resolved the natal chart conflicts indicated by those natal 4th harmonic angles.



NATAL CHART
Christopher Benton
 May 23, 1952
 4:29 AM
 Standard Time
 Joplin, Missouri
 37N05'03" 94W30'47"
 Time Zone: 6 hours West
 Geocentric
 Tropical Regiomontanus

Doc Benton
 The Hanged Man
 Scottsdale, AZ 85255

In my natal chart, for example, there are squares and oppositions between Pluto/Lunar Nodes and planets in Taurus, Uranus/Chiron, Uranus/Saturn, Saturn/Chiron, and Jupiter/Mars.



4th Harmonic NATAL CHART

Christopher Benton

May 23, 1952

4:29 AM

Standard Time

Joplin, Missouri

37N05'03" 94W30'47"

Time Zone: 6 hours West

Geocentric

Tropical Equal

Doc Benton

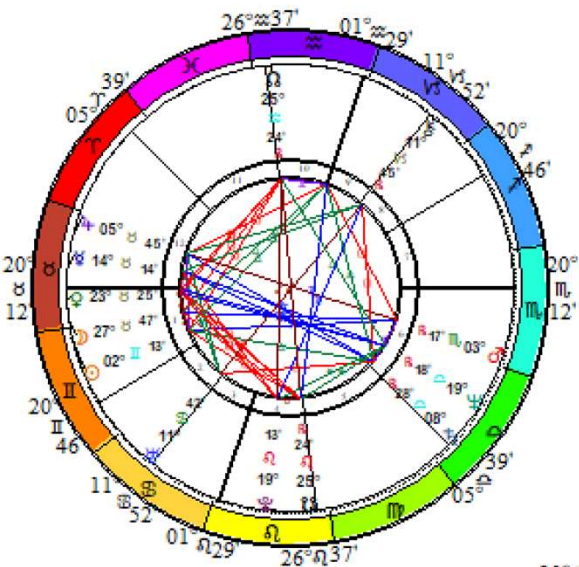
The Hanged Man

Scottsdale, AZ 85255

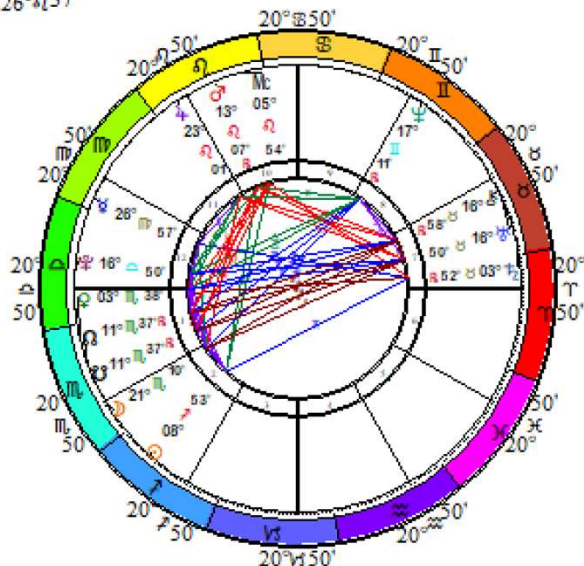
My *4th harmonic chart*, however, shows the person that I'll become after learning the lessons presented by my natal squares and oppositions. Also, the conjunctions in the *4th harmonic chart* are not exact because the aspects in the natal chart weren't exact either.

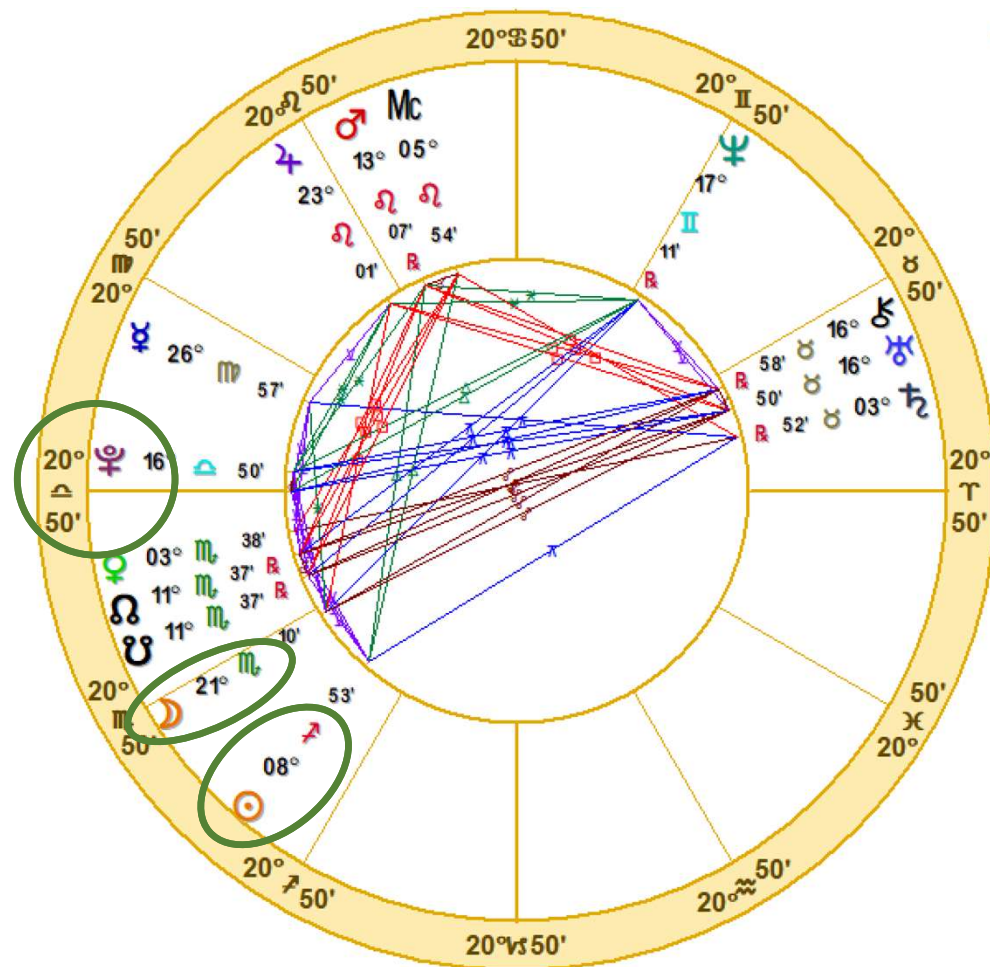
Christopher Benton
 May 23, 1952
 4:29 AM
 Joplin, Missouri
 37N05'03" 94W30'47"
 Standard Time
 Time Zone: 6 hours West
 Tropical Regressionianus
 NATAL CHART

In my natal chart, I am more of a recluse (1st and 12th house planets squared by ruler of the 7th), but the 4th harmonic shows that as I resolve my issues with squares and oppositions, I become more sociable.



Christopher Benton
 May 23, 1952
 4:29 AM
 Joplin, Missouri
 37N05'03" 94W30'47"
 Standard Time
 Time Zone: 6 hours West
 Tropical Equal
 4th Harmonic NATAL CHART





4th Harmonic NATAL CHART

Christopher Benton

May 23, 1952

4:29 AM

Standard Time

Joplin, Missouri

37N05'03" 94W30'47"

Time Zone: 6 hours West

Geocentric

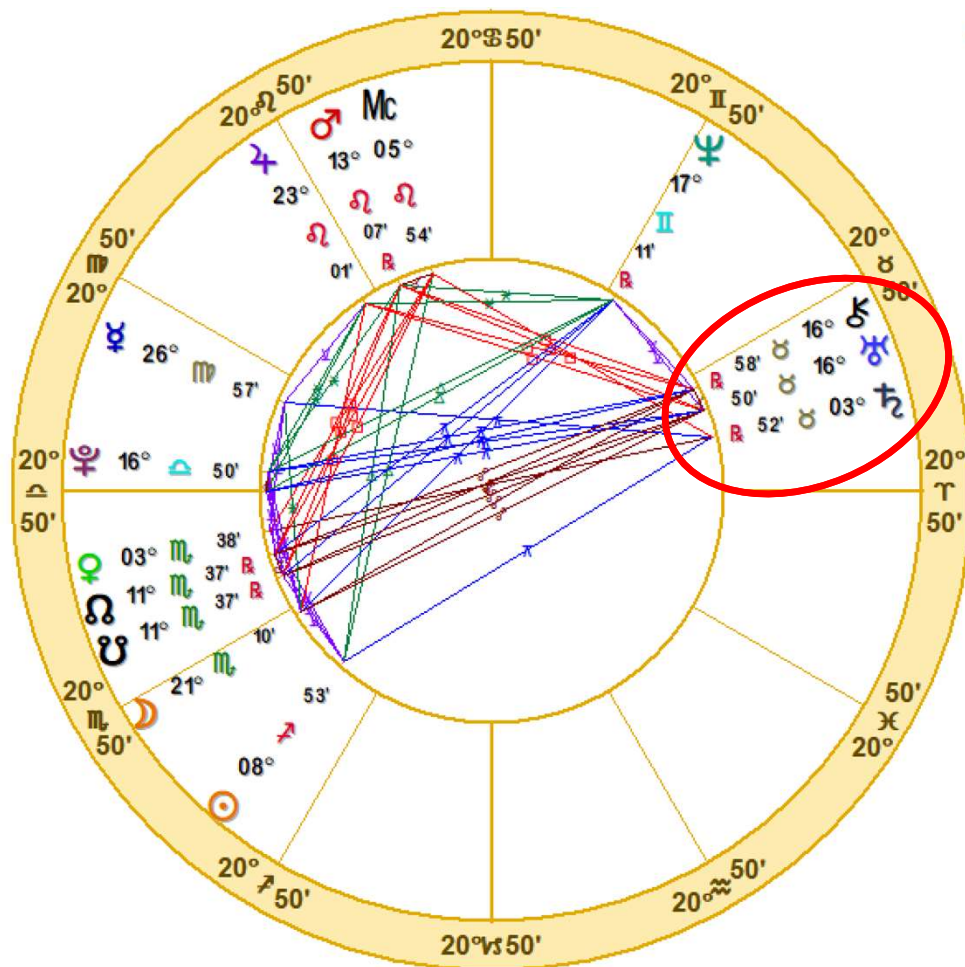
Tropical Equal

Doc Benton

The Hanged Man

Scottsdale, AZ 85255

The person shown in this chart is more sociable (Libra rising), has found his personal power (Pluto conjunct Ascendant), is very expansive and outgoing (Sun in Sagittarius), but is also seen as deep with intense emotions (Moon in Scorpio).



4th Harmonic NATAL CHART

Christopher Benton

May 23, 1952

4:29 AM

Standard Time

Joplin, Missouri

37N05'03" 94W30'47"

Time Zone: 6 hours West

Geocentric

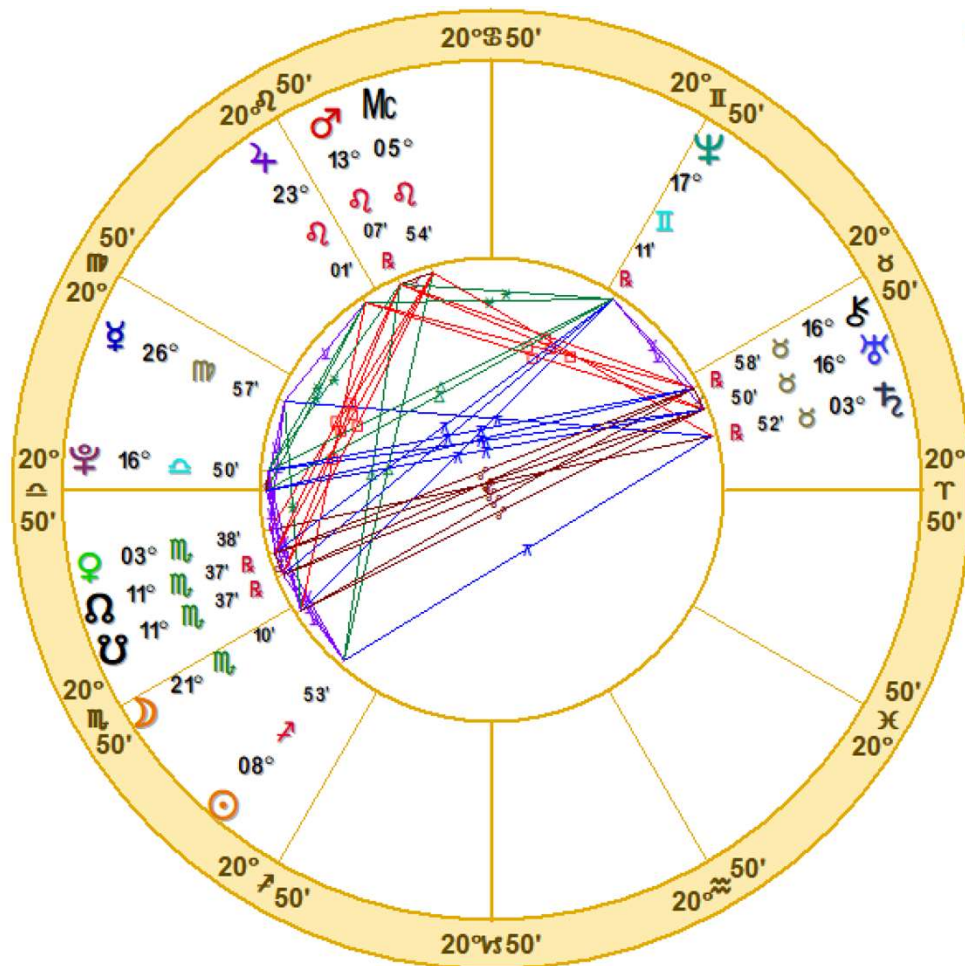
Tropical Equal

Doc Benton

The Hanged Man

Scottsdale, AZ 85255

The combination of Saturn, Uranus, and Chiron in Taurus shows that discipline, creativity, and a higher perspective are now operating in a persistent and coordinated way. In other words, I'm far more enlightened than I was at the beginning!



4th Harmonic NATAL CHART

Christopher Benton

May 23, 1952

4:29 AM

Standard Time

Joplin, Missouri

37N05'03" 94W30'47"

Time Zone: 6 hours West

Geocentric

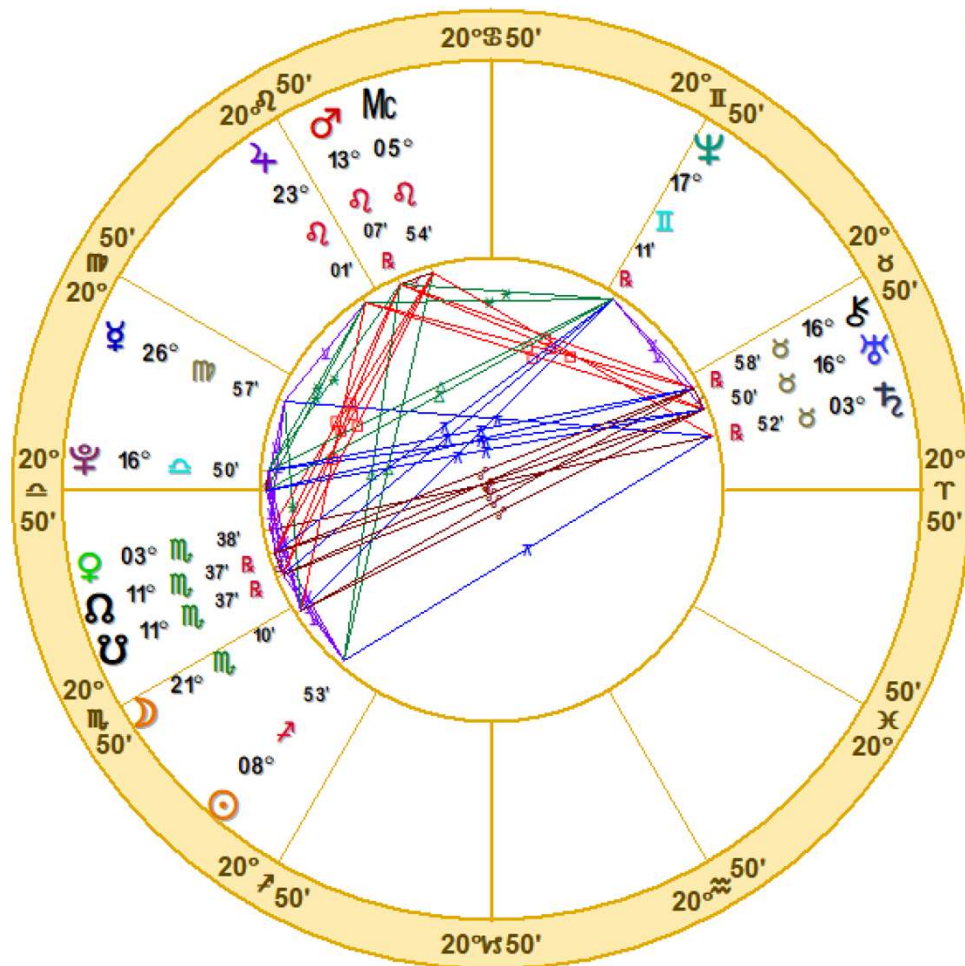
Tropical Equal

Sextiles and trines indicate allies while squares and oppositions show areas that might operate independently from one another rather than a full-blown conflict.

Doc Benton

The Hanged Man

Scottsdale, AZ 85255



4th Harmonic NATAL CHART

Christopher Benton

May 23, 1952

4:29 AM

Standard Time

Joplin, Missouri

37N05'03" 94W30'47"

Time Zone: 6 hours West

Geocentric

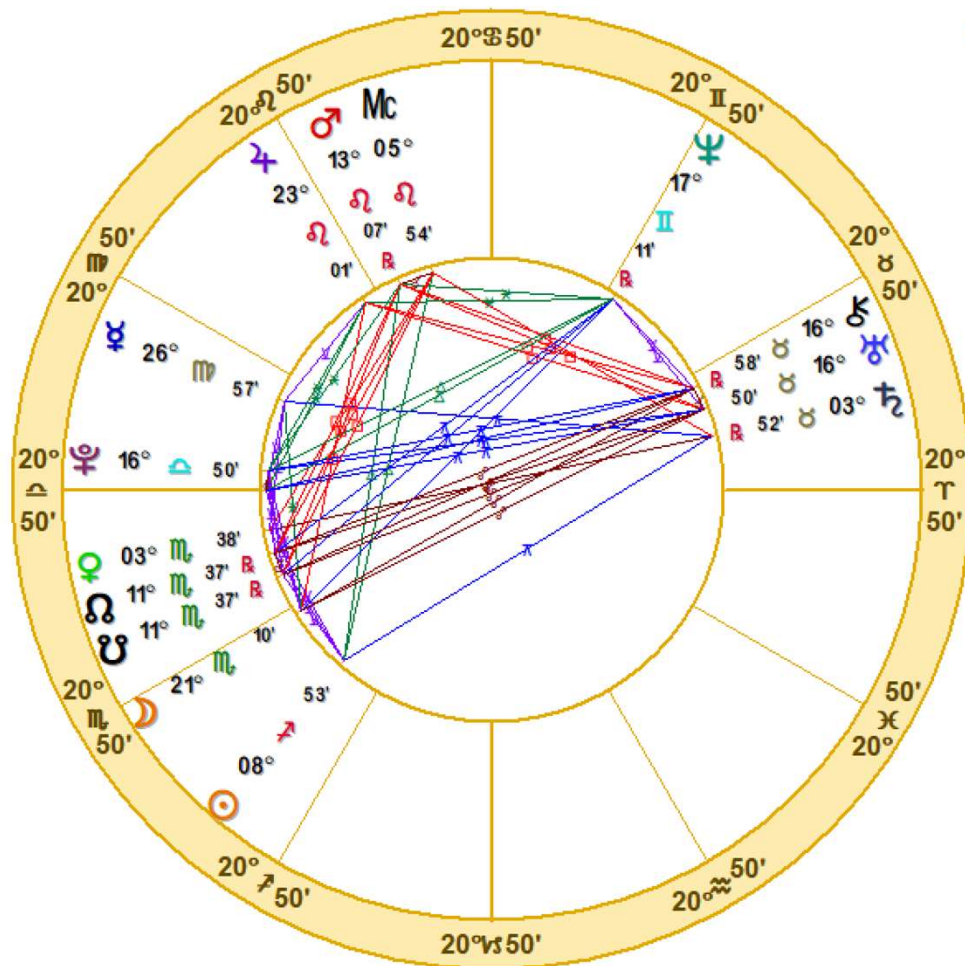
Tropical Equal

Doc Benton

The Hanged Man

Scottsdale, AZ 85255

The deeper point, though, is that the *4th harmonic chart* shows a different face or facet of ourselves that emerges once we learn how to transform those natal squares and oppositions into the final union that these cycles wish to achieve.



4th Harmonic NATAL CHART

Christopher Benton

May 23, 1952

4:29 AM

Standard Time

Joplin, Missouri

37N05'03" 94W30'47"

Time Zone: 6 hours West

Geocentric

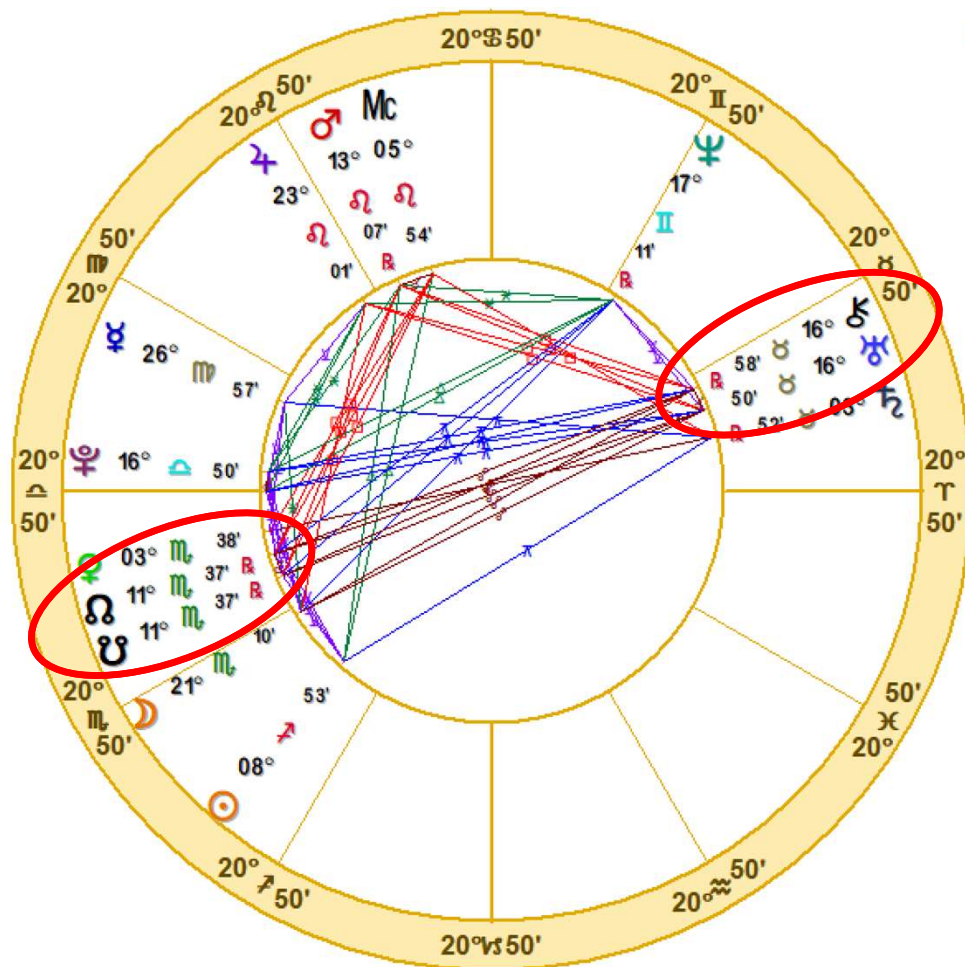
Tropical Equal

Doc Benton

The Hanged Man

Scottsdale, AZ 85255

Also, when interpreting a *harmonic chart*, I tend to focus mainly on the highlights and to remember that the *harmonic chart* is just a modifier to the main, natal chart. Additionally, all the structure in the *harmonic chart* comes from the natal chart. We've divided out some structure (original squares/oppositions), but retained the rest.



4th Harmonic NATAL CHART

Christopher Benton

May 23, 1952

4:29 AM

Standard Time

Joplin, Missouri

37N05'03" 94W30'47"

Time Zone: 6 hours West

Geocentric

Tropical Equal

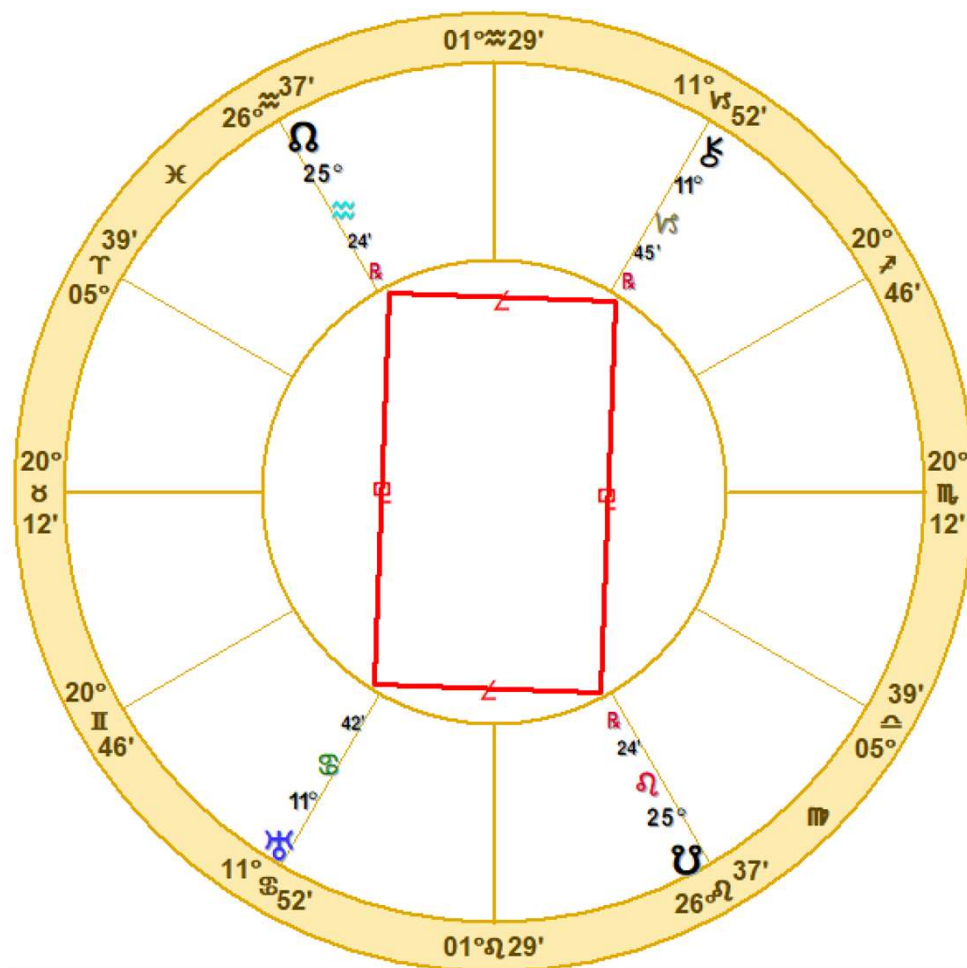
Doc Benton

The Hanged Man

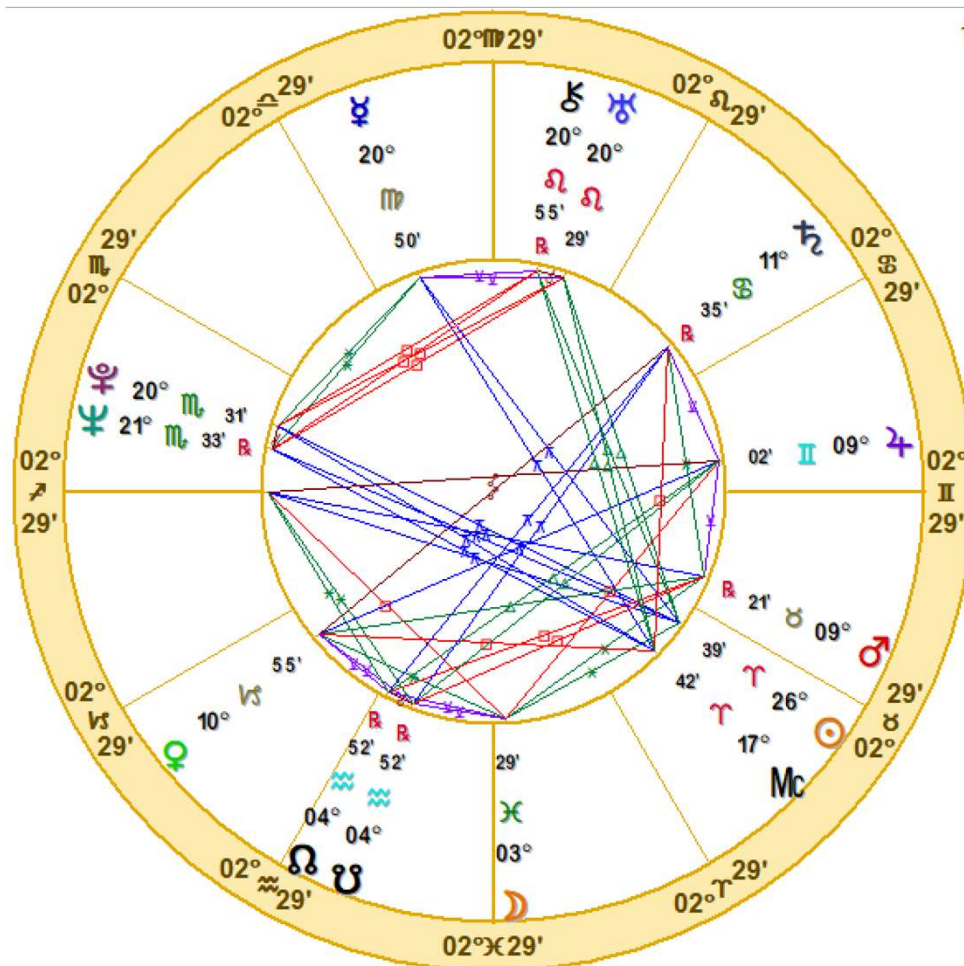
Scottsdale, AZ 85255

For example, Uranus and Chiron are in opposition to the North Node in the **4th harmonic chart**.

Since we go from natal to the **4th harmonic** by multiplying by 4, we can undo that by dividing by 4, and if we divide 180° by 4, we get 45° , the **root 8th harmonic angle**. This means that our natal angles could be 45° plus, perhaps, some counting number multiple of 90° .

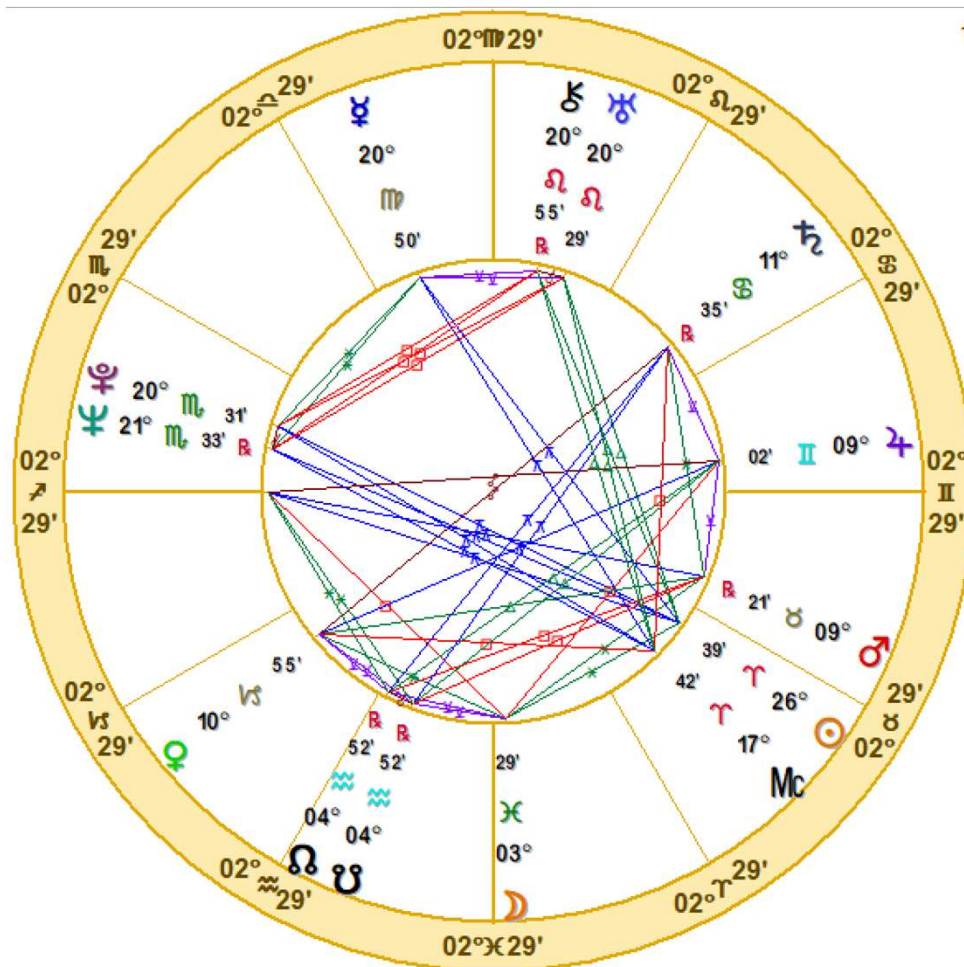


And sure enough, in my natal chart Chiron is semisquare (45°) North Node, and Uranus is sesquiquadrate ($45^\circ + 1 \cdot 90^\circ$) North Node. Hence, one angle is 45° and the other is 45° plus a multiple of 90° .



Doc Benton
 The Hanged Man
 Scottsdale, AZ 85255

Sorcerer Supreme
 David Cochrane has
 so much experience
 with *harmonic charts*
 that he can play each
 one like a classical
 violin, and what he
 finds in them is often
 amazing!



12th Harmonic NATAL CHART

Christopher Benton

May 23, 1952

4:29 AM

Standard Time

Joplin, Missouri

37N05'03\" 94W30'47\"

Time Zone: 6 hours West

Geocentric

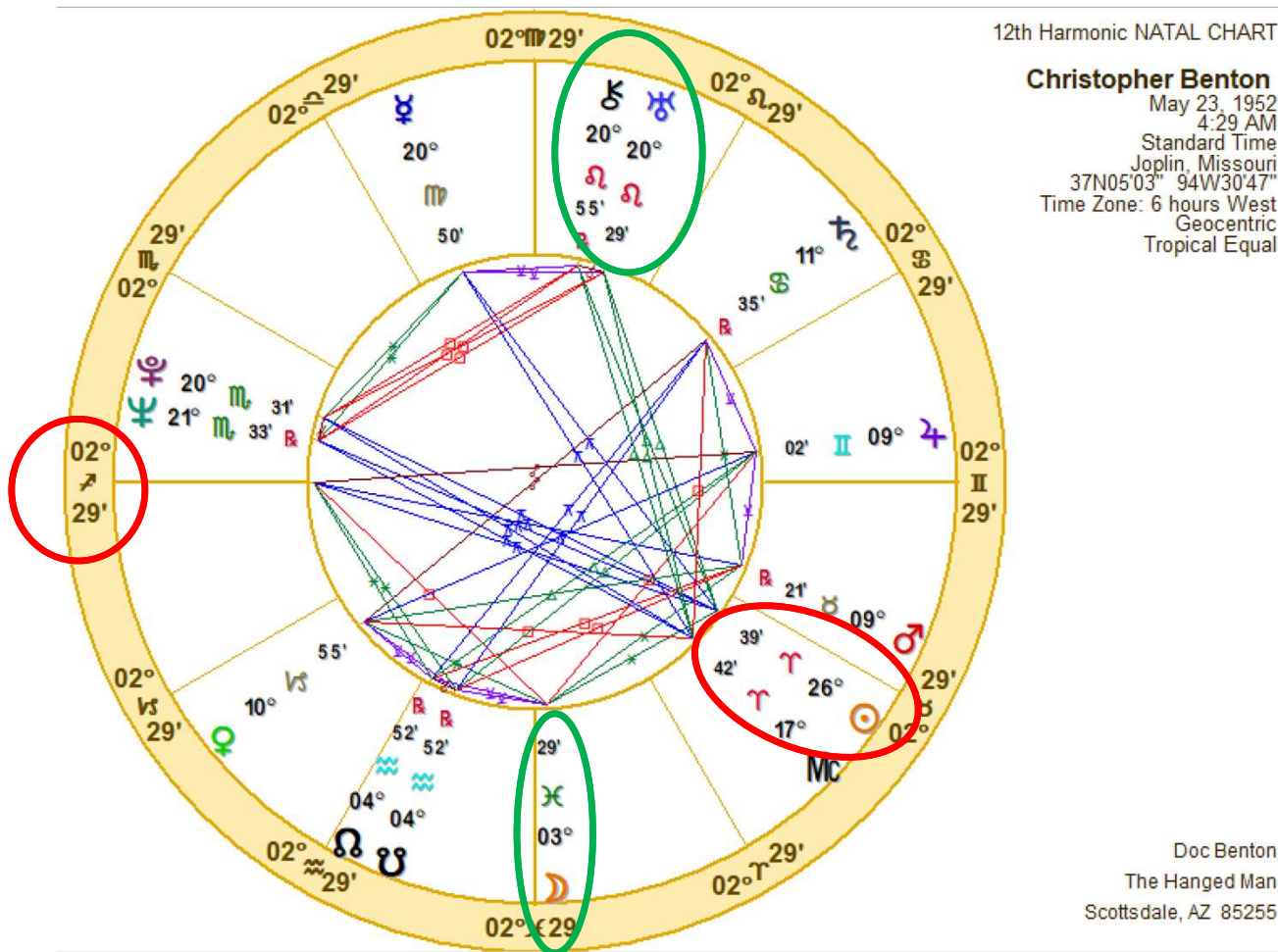
Tropical Equal

Doc Benton

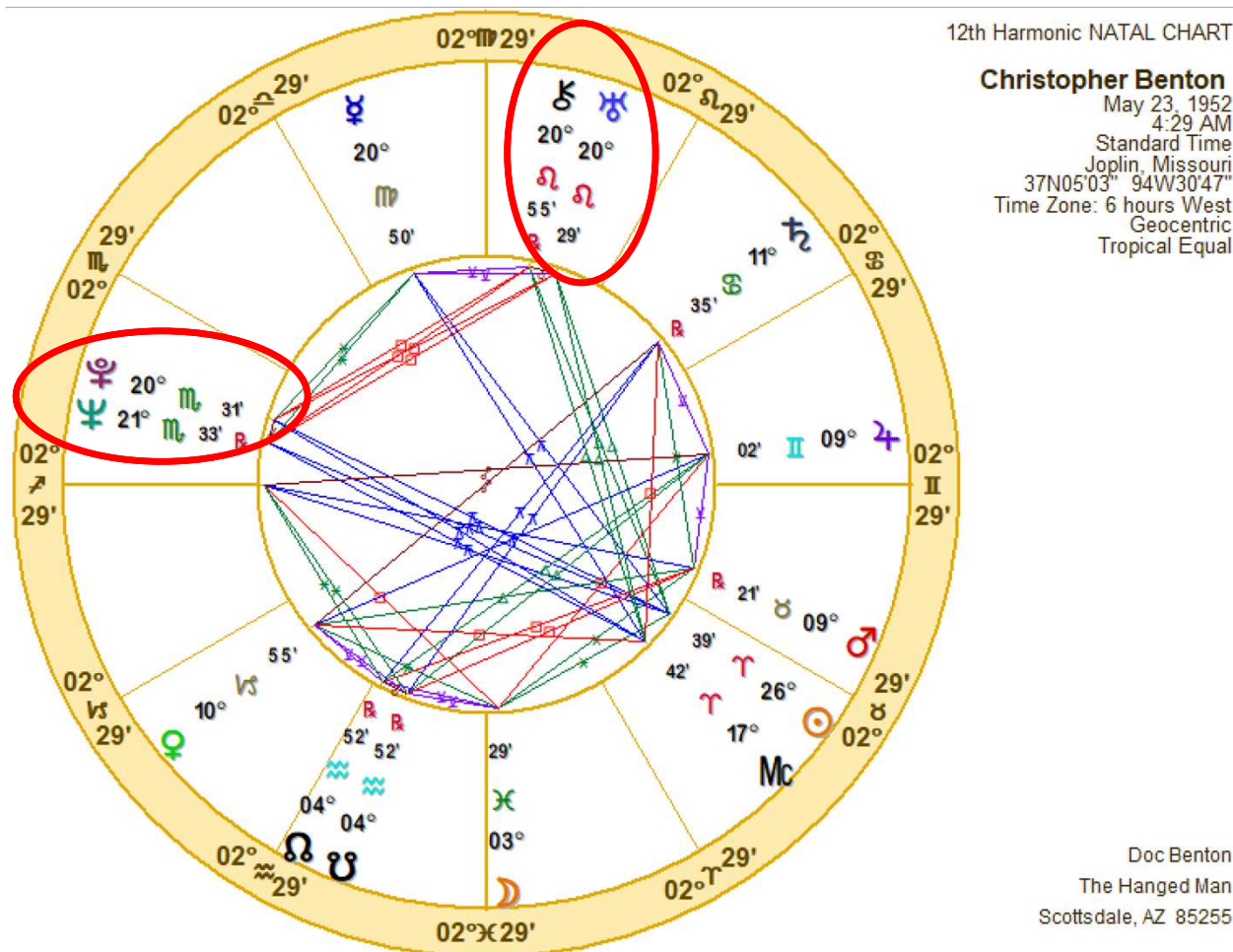
The Hanged Man

Scottsdale, AZ 85255

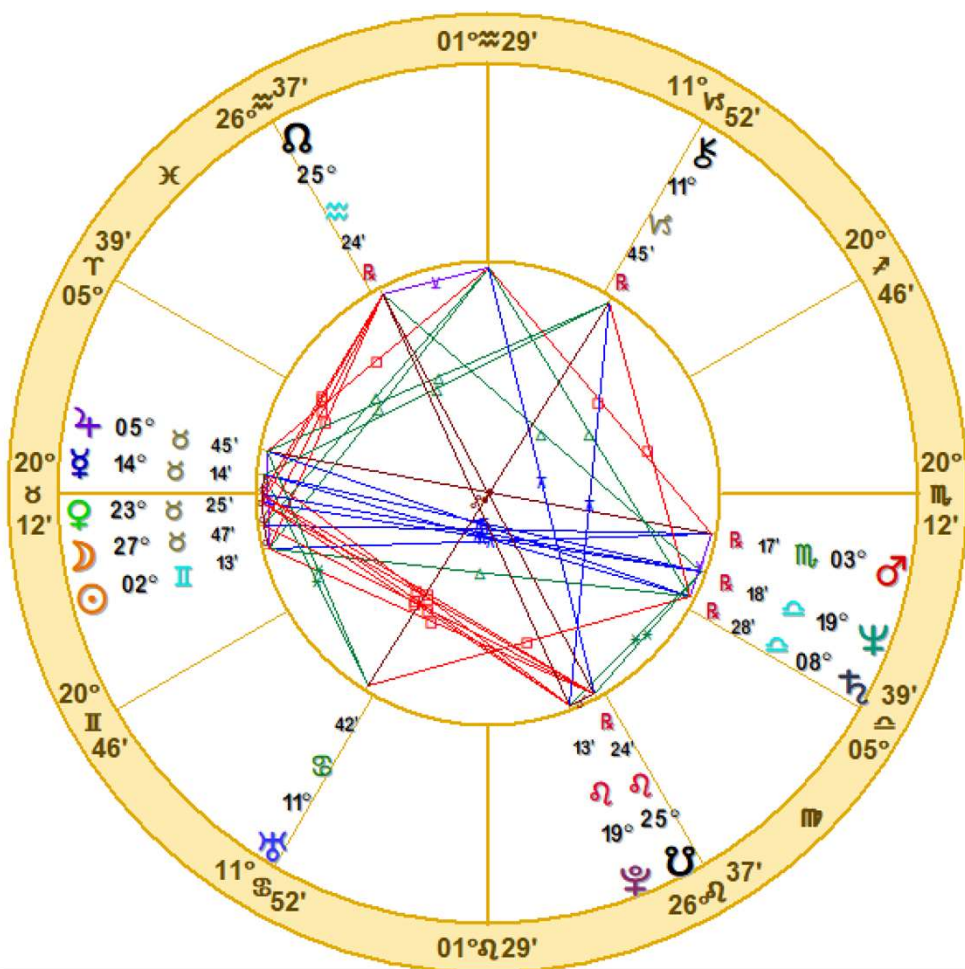
I tend to only look at a few, but I consider the **12th harmonic** to be very important because this is who you will be once you've learned the lessons of both your **3rd and 4th harmonics**. This chart represents a far more complete version of yourself!



In the *12th harmonic* I am more assertive (Sun in Aries), more expansive and pursuing knowledge (Sagittarius rising), and even more overtly mystical (Moon in Pisces). Also, my persona (Moon) and higher soul (Chiron/Uranus) function as allies to the Self (Sun).



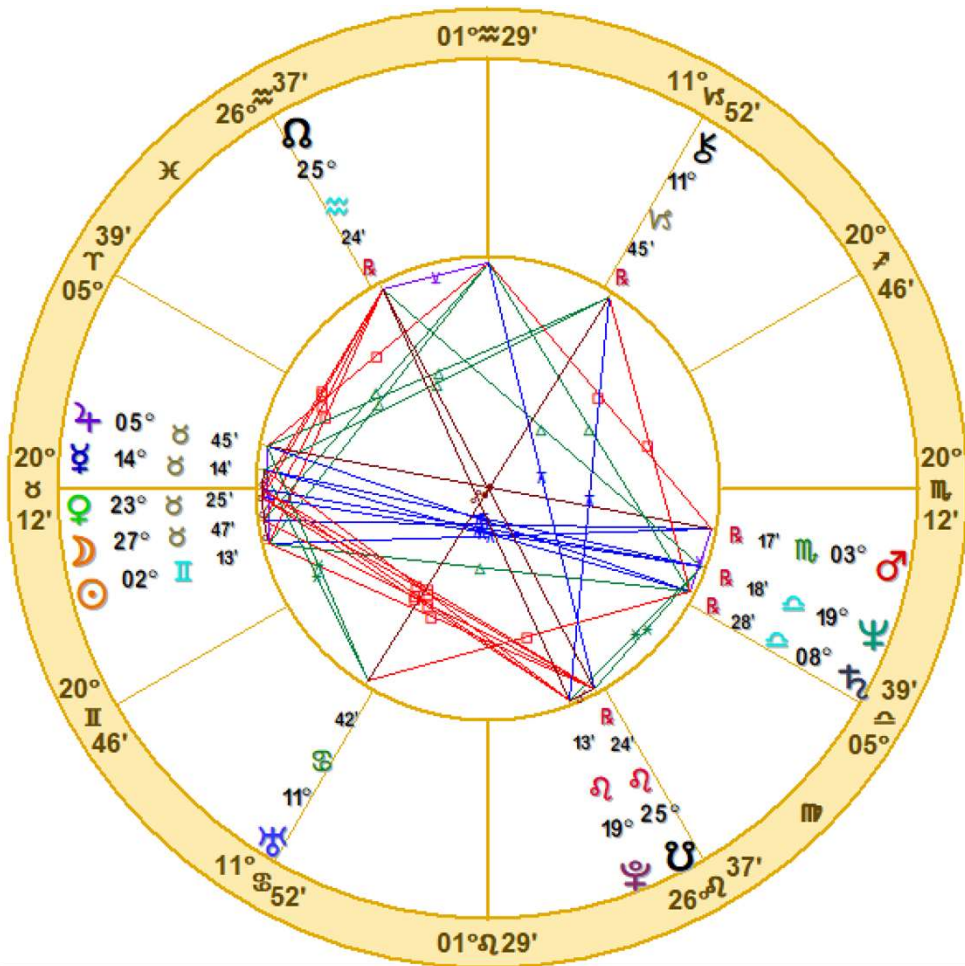
Also, Pluto/Neptune in Scorpio indicates intense experience of absolute oneness while Chiron/Uranus in Leo suggests a satori like enlightenment of the true nature of the Self. Since they are square in the **12th harmonic**, they tend to operate separately.



NATAL CHART
Christopher Benton
 May 23, 1952
 4:29 AM
 Standard Time
 Joplin, Missouri
 37N05'03" 94W30'47"
 Time Zone: 6 hours West
 Geocentric
 Tropical Regiomontanus

Doc Benton
 The Hanged Man
 Scottsdale, AZ 85255

However, since few of the aspects in our natal chart will be exact, another approach is to take the exact angle between two specific planets and create a *quotient structure* that converts that specific angle into a conjunction.

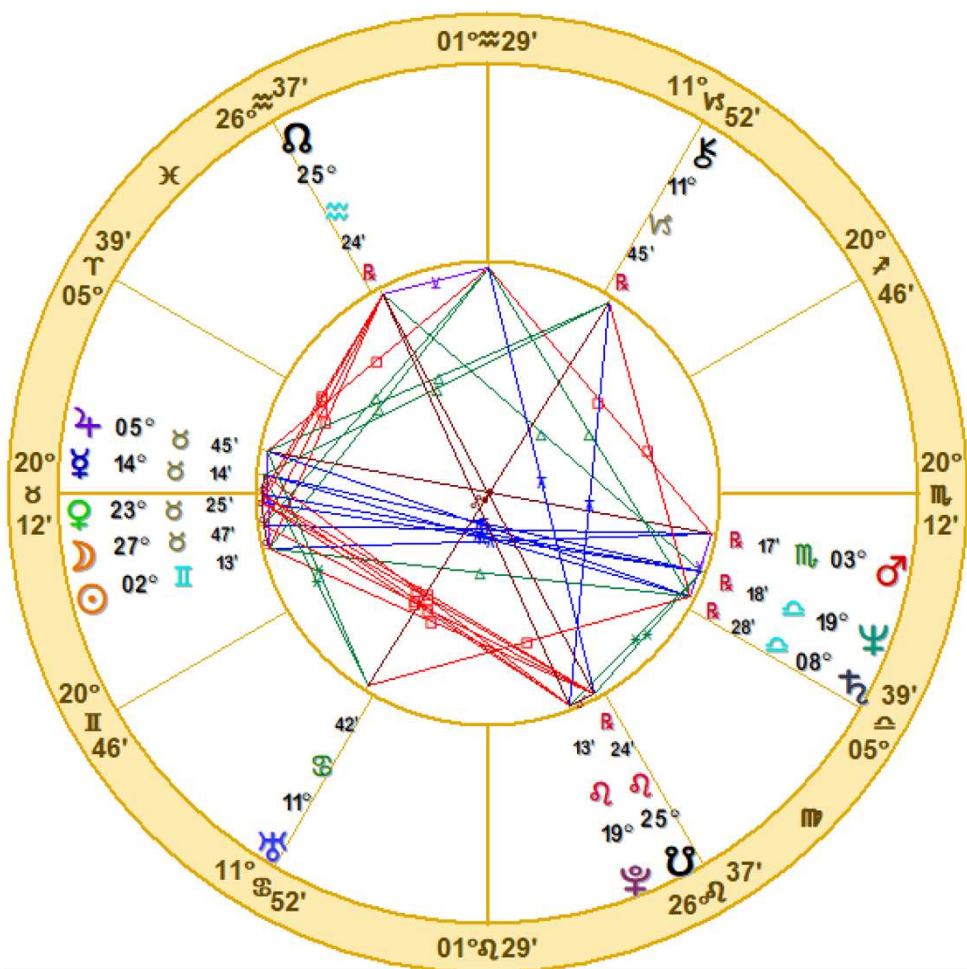


NATAL CHART
Christopher Benton
 May 23, 1952
 4:29 AM
 Standard Time
 Joplin, Missouri
 37N05'03" 94W30'47"
 Time Zone: 6 hours West
 Geocentric
 Tropical Regiomontanus

Doc Benton
 The Hanged Man
 Scottsdale, AZ 85255

And when we do this,
 the resulting chart is
 called an *arc*
transform.

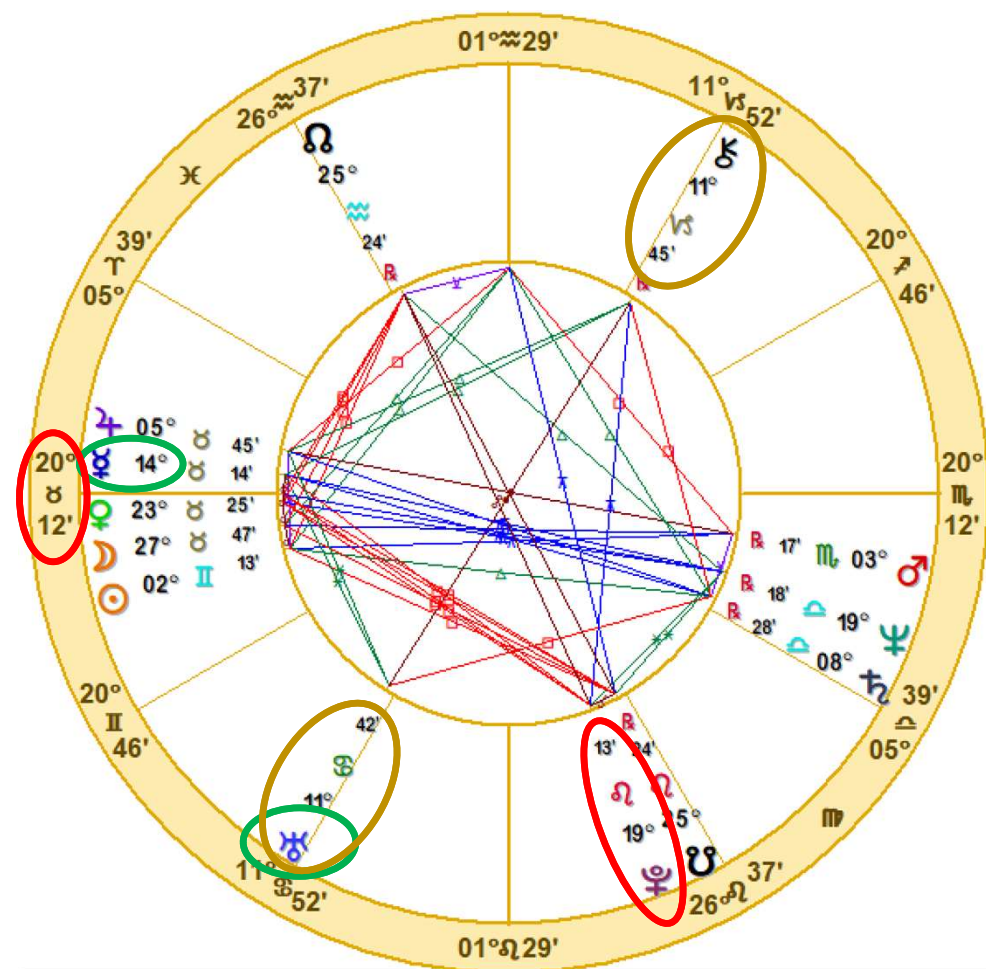
ARC TRANSFORMS



NATAL CHART
Christopher Benton
 May 23, 1952
 4:29 AM
 Standard Time
 Joplin, Missouri
 37N05'03" 94W30'47"
 Time Zone: 6 hours West
 Geocentric
 Tropical Regiomontanus

Doc Benton
 The Hanged Man
 Scottsdale, AZ 85255

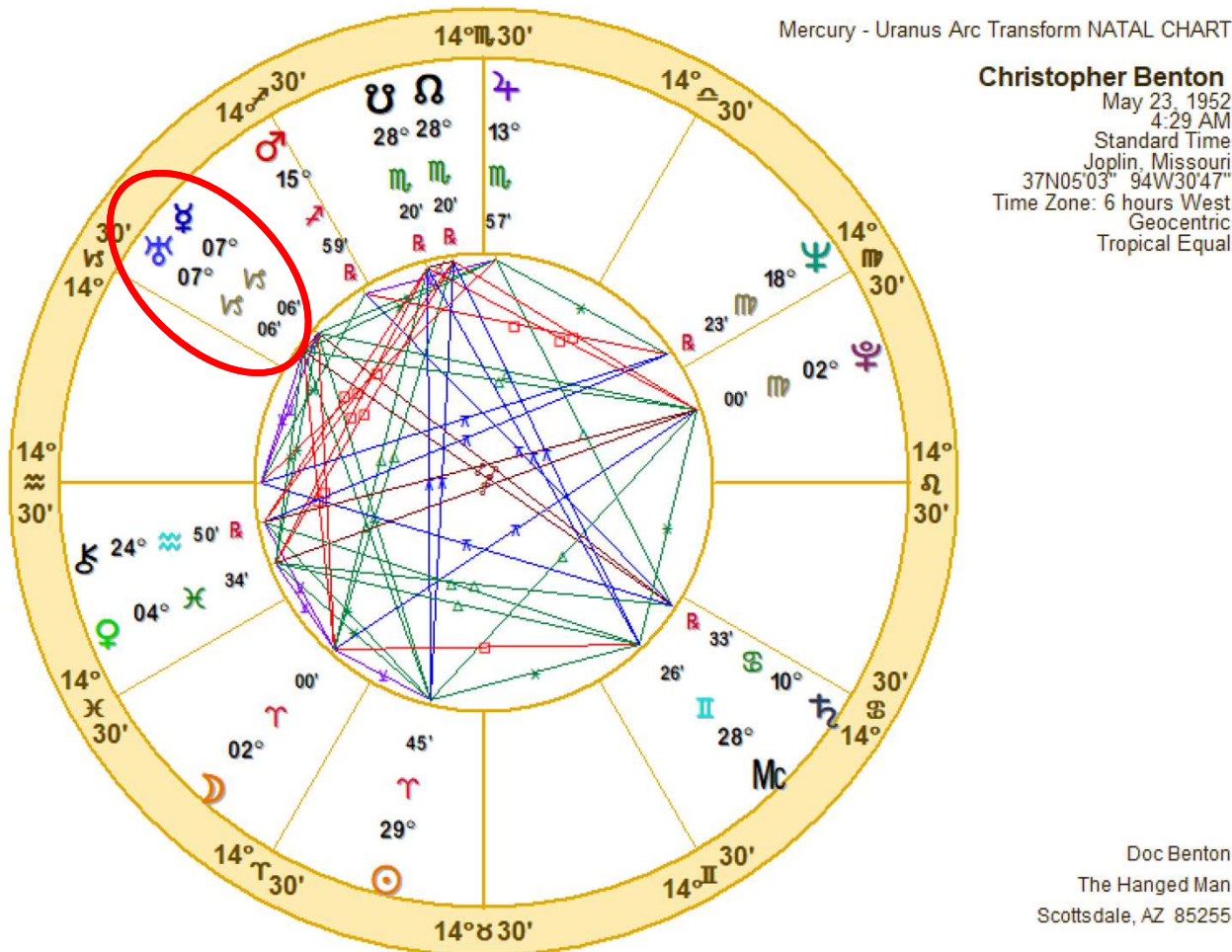
When trying to decide which *arc transforms* to look at, it helps to consider what planets are already working harmoniously together, what aspects are close, and which are tough.



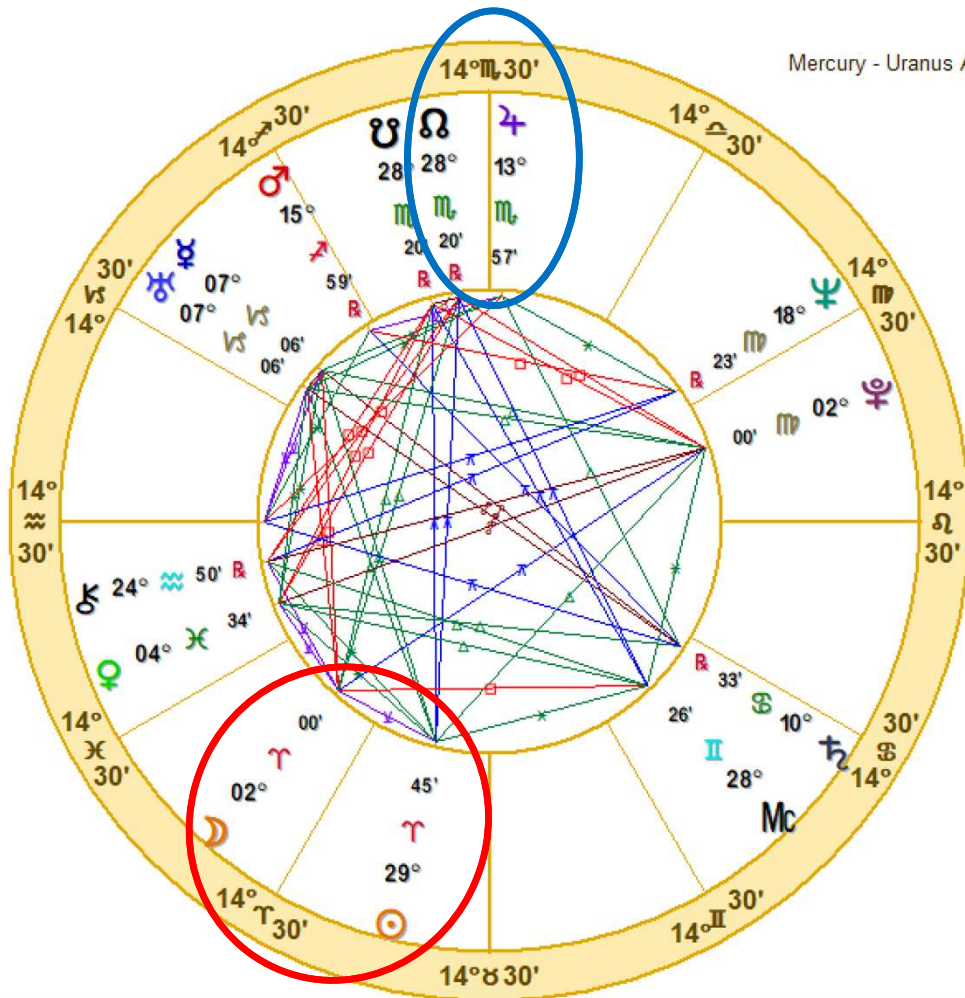
NATAL CHART
Christopher Benton
 May 23, 1952
 4:29 AM
 Standard Time
 Joplin, Missouri
 37N05'03" 94W30'47"
 Time Zone: 6 hours West
 Geocentric
 Tropical Regiomontanus

Doc Benton
 The Hanged Man
 Scottsdale, AZ 85255

For me that suggests looking at the *arc transform* of Mercury and Uranus, Uranus and Chiron, and Pluto and Ascendant.



My natal sextile between Mercury and Uranus makes me naturally creative in both mathematics and astrology, and in their *arc transform*, I have Mercury/Uranus in Capricorn near house 12. Thus, I am disciplined in my creativity, sometimes collaborate, but also work well alone.



Mercury - Uranus Arc Transform NATAL CHART

Christopher Benton

May 23, 1952

4:29 AM

Standard Time

Joplin, Missouri

37N05'03" 94W30'47"

Time Zone: 6 hours West

Geocentric

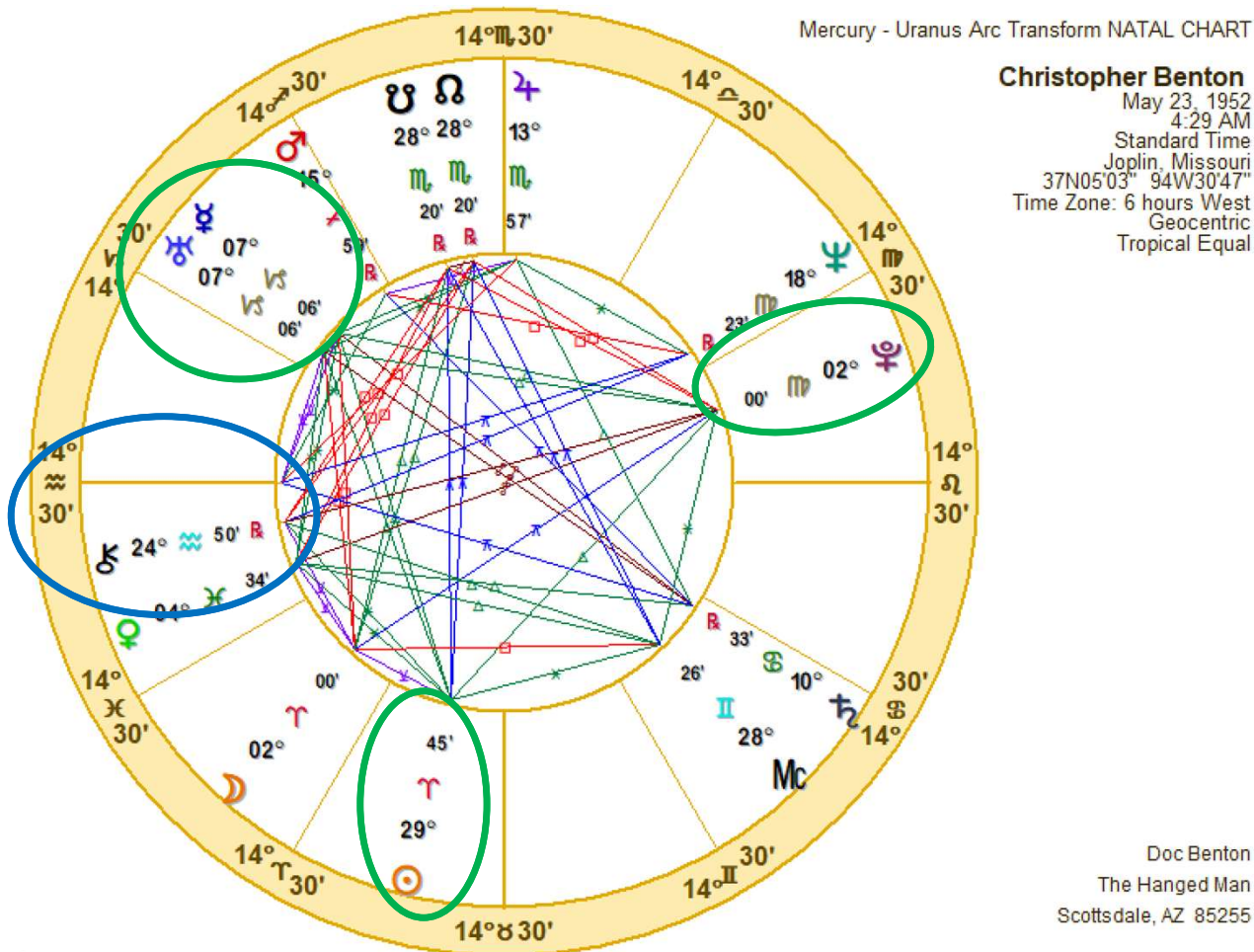
Tropical Equal

Doc Benton

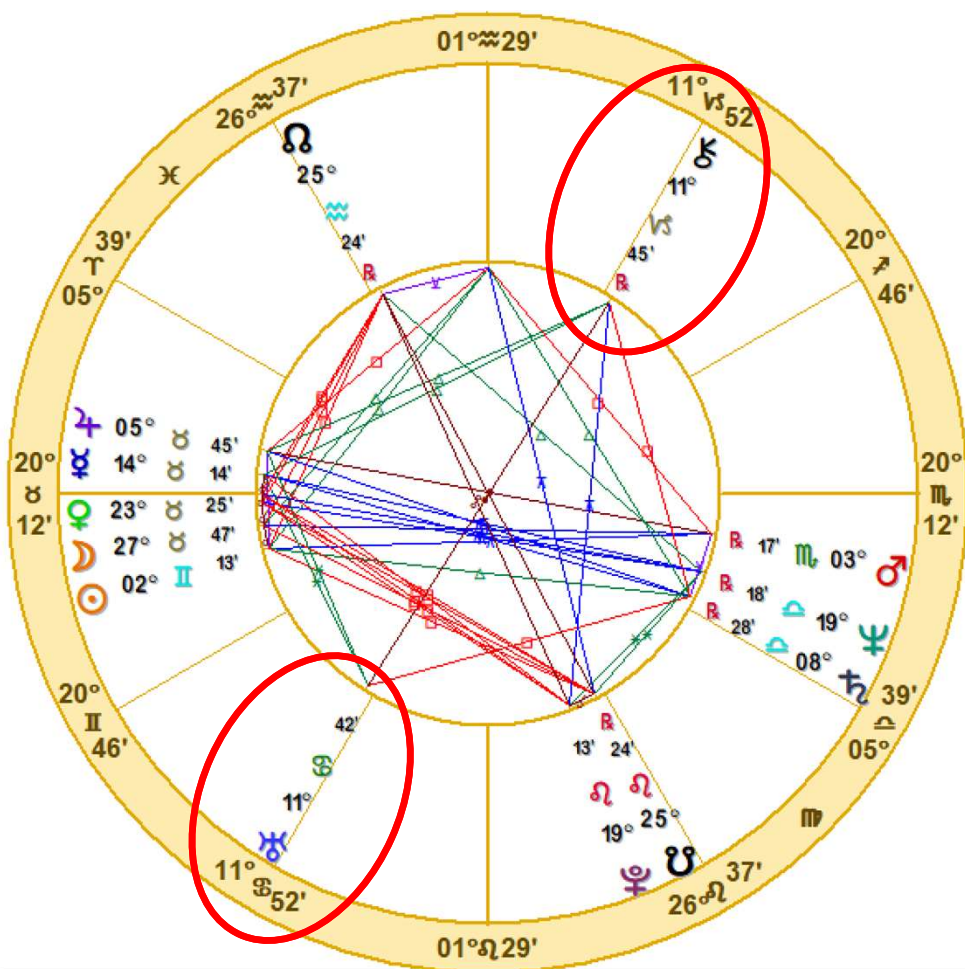
The Hanged Man

Scottsdale, AZ 85255

My *Mercury/Uranus arc transform* self is more assertive and independent in its pursuits (Sun & Moon in Aries), and I am likely to receive acclaim for these endeavors (Jupiter conjunct Midheaven).



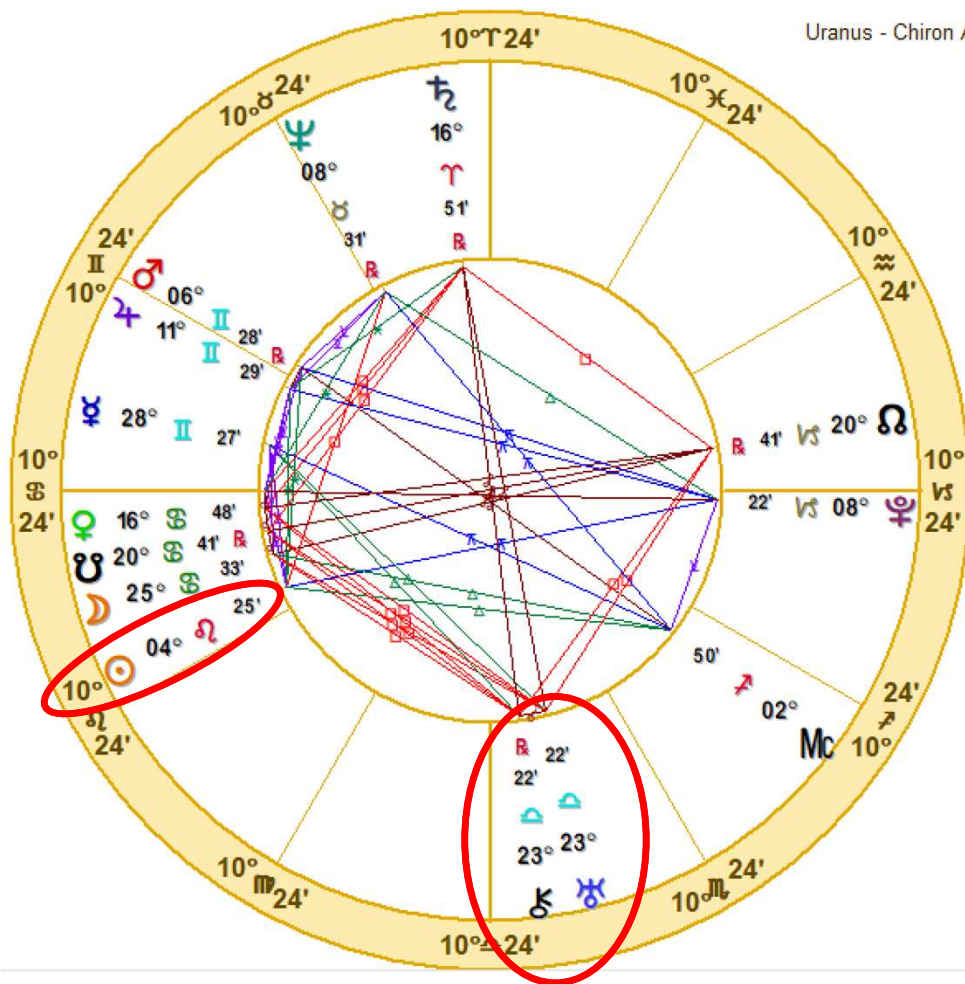
A grand trine shows how self, creativity, and intensity all reinforce one another (Mercury/Uranus/Sun/Pluto). Also, Aquarius rising, and Chiron in Aquarius show how creativity leads to universality and a higher perspective within me.



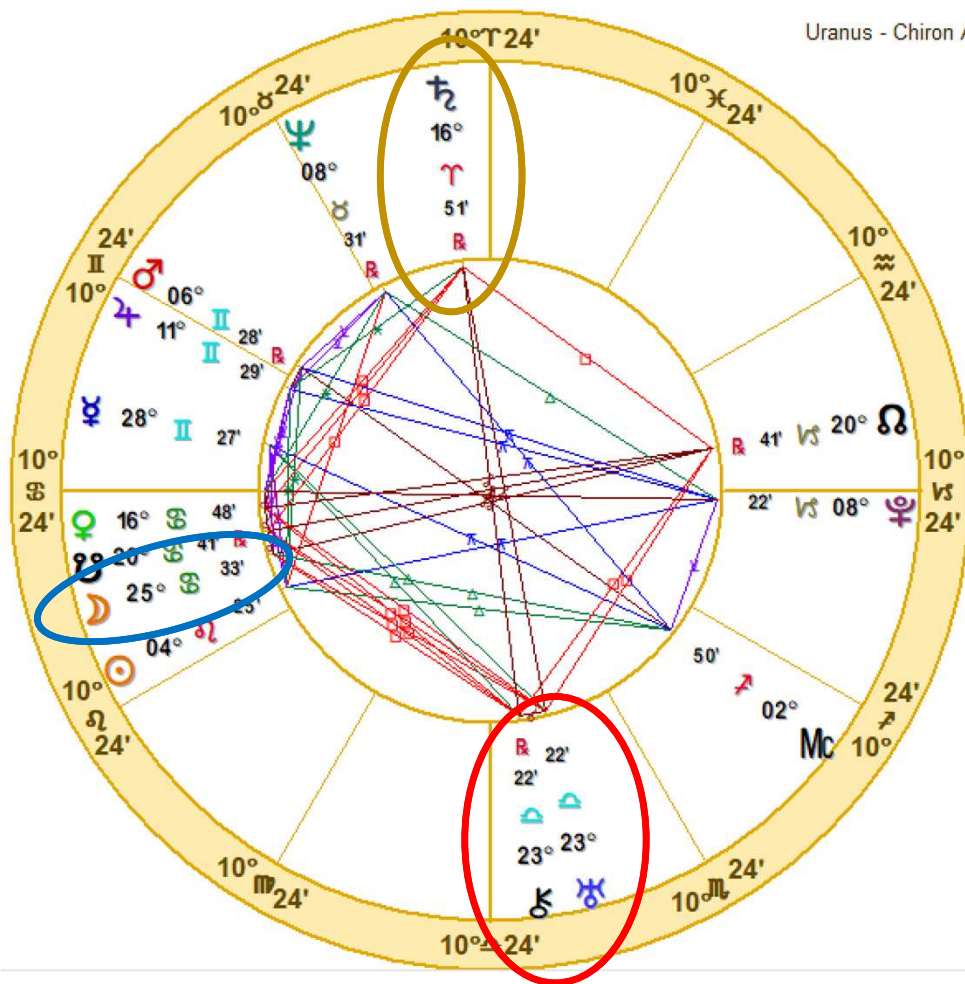
NATAL CHART
Christopher Benton
 May 23, 1952
 4:29 AM
 Standard Time
 Joplin, Missouri
 37N05'03" 94W30'47"
 Time Zone: 6 hours West
 Geocentric
 Tropical Regiomontanus

Doc Benton
 The Hanged Man
 Scottsdale, AZ 85255

I did not begin using Chiron until last summer, but since the Uranus/Chiron opposition in my chart is a mere 3 minutes from exact, it is very strong, and I now realize how in my life Chiron has been present at every moment of deep spiritual growth.



In my *Uranus/Chiron arc transform*, their conjunction is in my 4th house. Thus, this transpersonal flash of enlightenment functions most strongly in my personal environment as I watch each perceptions disappear into the *Oneness* of the Self (Sun in Leo).



Uranus - Chiron Arc Transform NATAL CHART

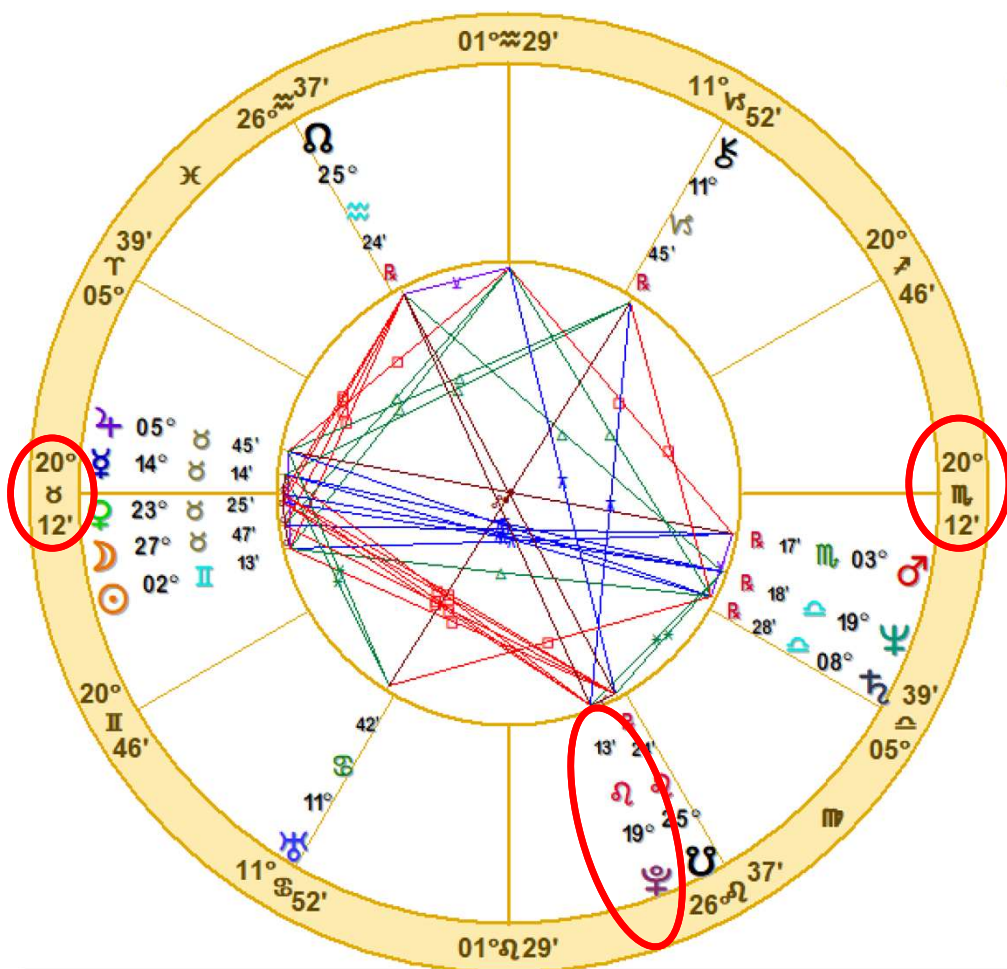
Christopher Benton

May 23, 1952
4:29 AM
Standard Time
Joplin, Missouri
37N05'03" 94W30'47"
Time Zone: 6 hours West
Geocentric
Tropical Equal

Doc Benton

The Hanged Man
Scottsdale, AZ 85255

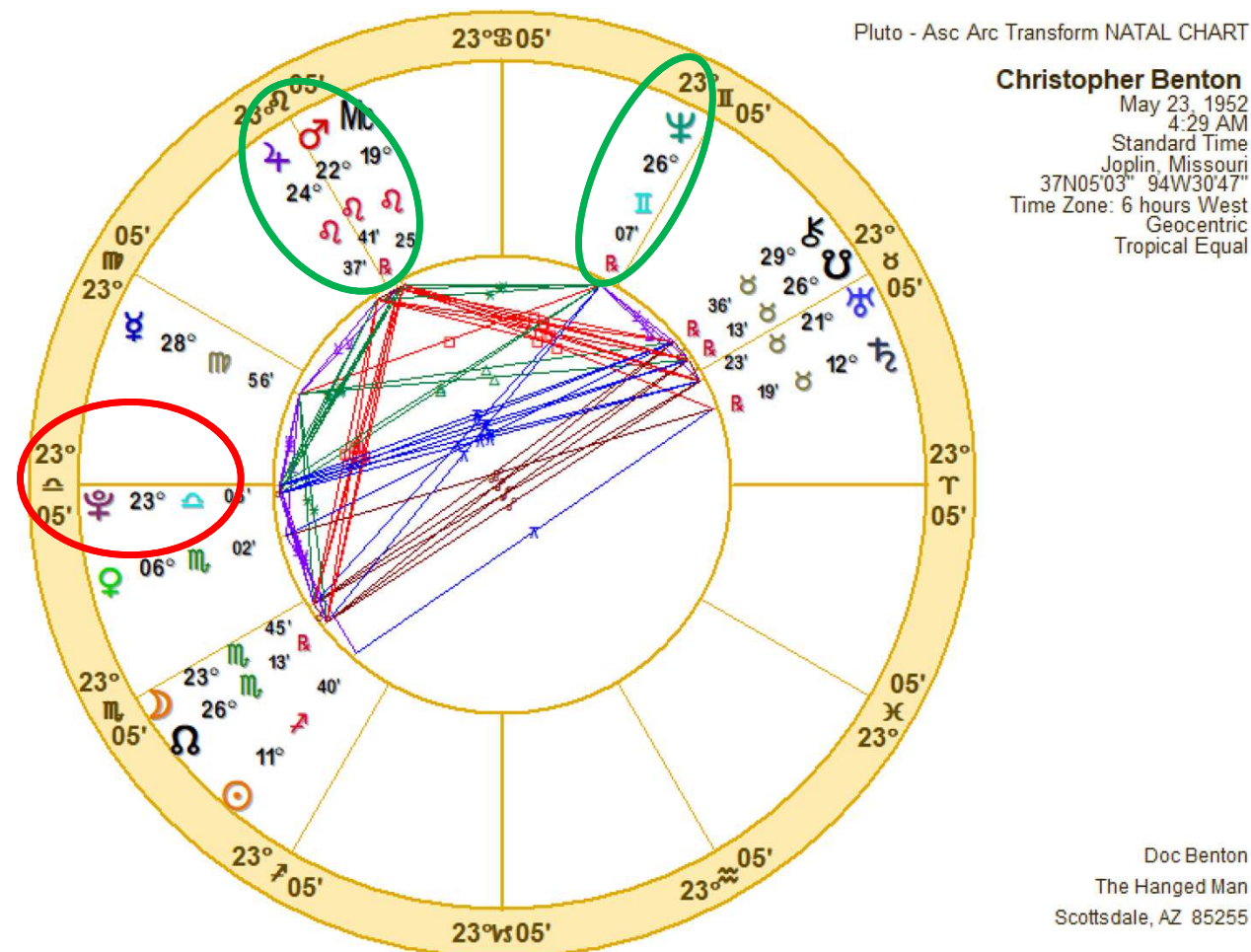
The opposition from Saturn suggests that I am still integrating discipline (Saturn) with this transcendent perspective (Chiron/Uranus). However, a square to Moon in Cancer suggests a nurturing persona that operates independently from the enlightenment of Chiron/Uranus.



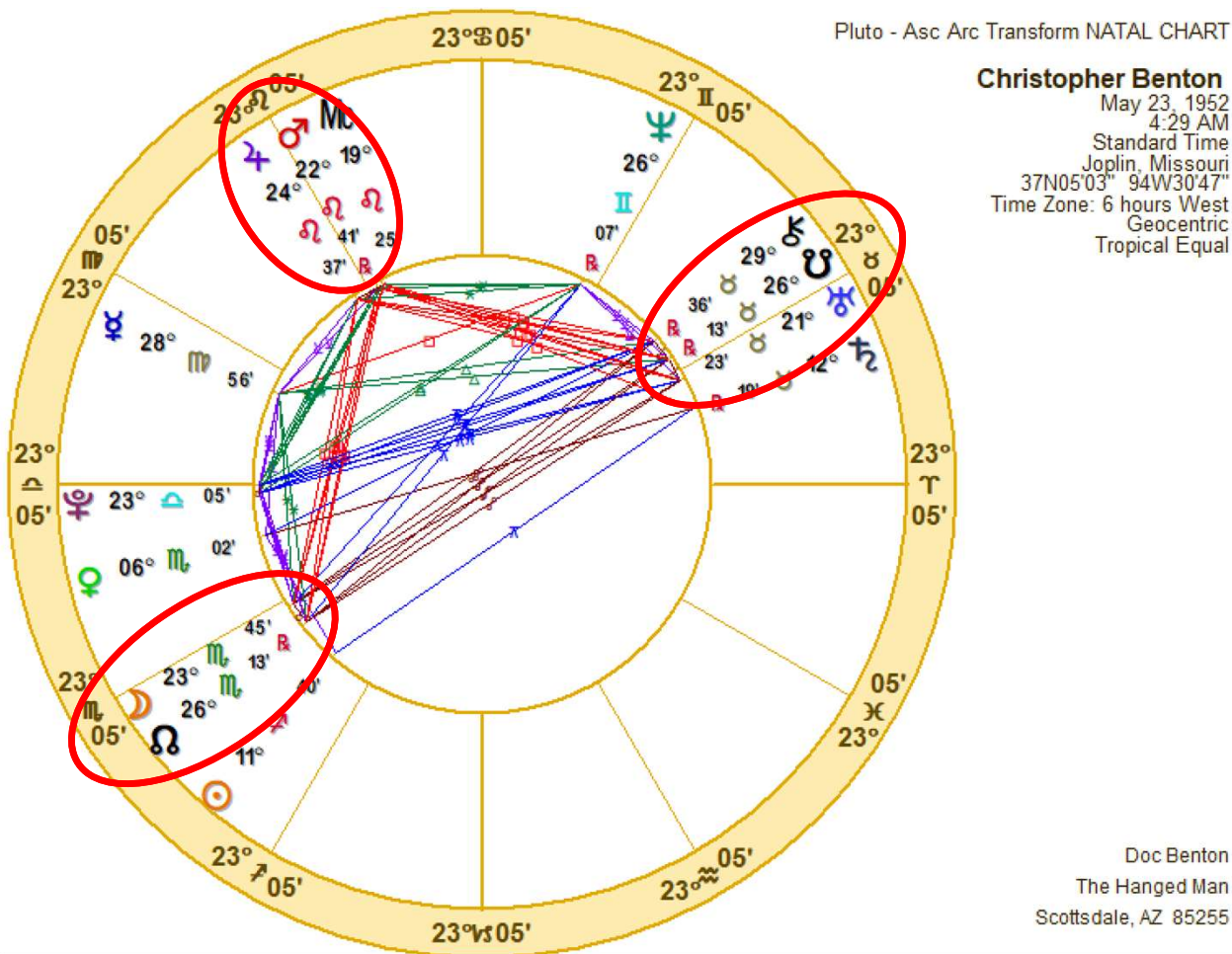
NATAL CHART
Christopher Benton
 May 23, 1952
 4:29 AM
 Standard Time
 Joplin, Missouri
 37N05'03" 94W30'47"
 Time Zone: 6 hours West
 Geocentric
 Tropical Regiomontanus

The most difficult aspect in my natal chart is Pluto, ruler of the 7th house, in the 4th house square my Ascendant. Thus, neither home life nor relations with others were easy for me when I was younger.

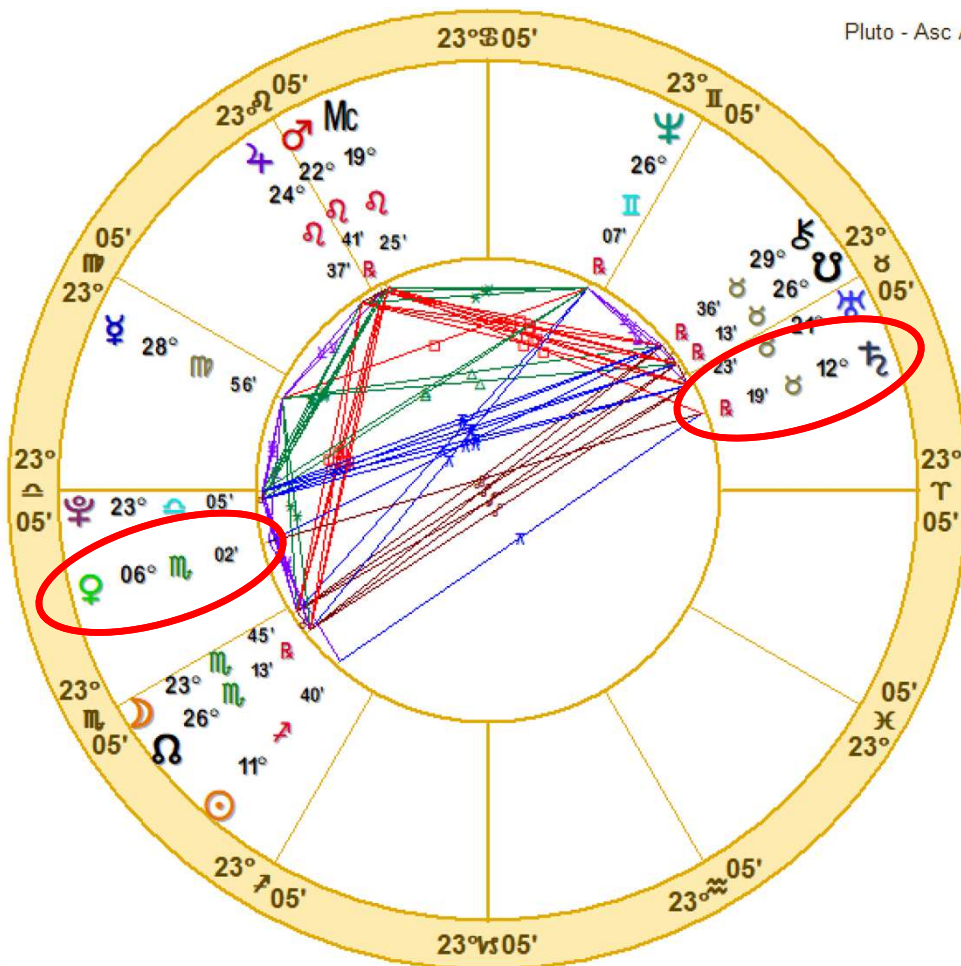
Doc Benton
 The Hanged Man
 Scottsdale, AZ 85255



The *Pluto/Ascendant arc transform*, however, shows me what I will be like once this cycle is brought back to union. In particular, I will have found my power in relationships (Pluto in Libra conjunct Ascendant). Also, strong personal creativity (Jupiter/Mars in Leo) and vision and imagination (Neptune in Gemini) are allies.



Additionally, in this face I am integrating my “enlightenment” with my persona (Moon opposite Uranus/Chiron), and an expansion of the awareness of self (Jupiter/Mars in Leo) is the focal point for this integration. There is also an intense focus on developing resources for relationships (Moon conjunct the nodal axis in houses 2 and 8).



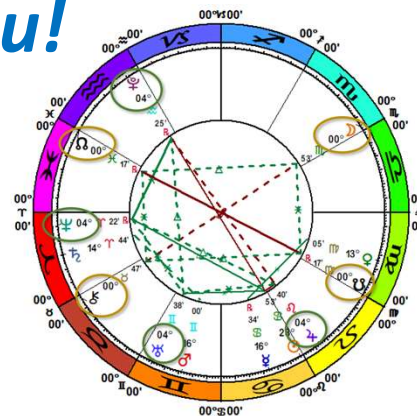
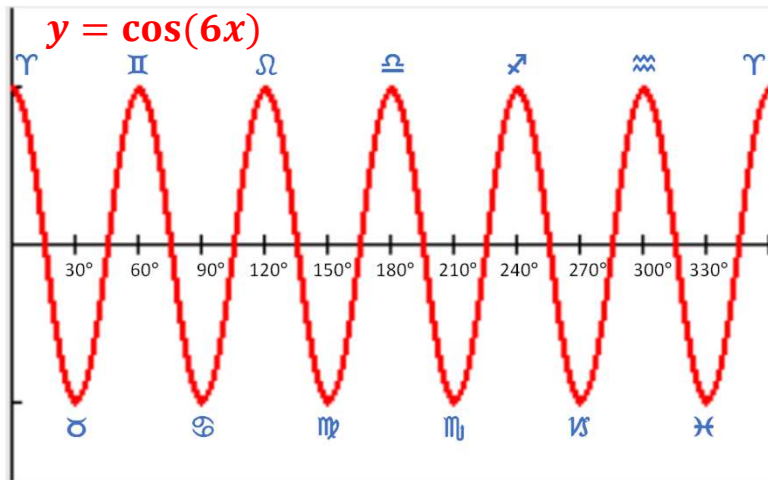
But there are still some lessons left to learn in terms of curbing personal desires in order to attend to the needs of others (Saturn in house 7 in opposition to Venus in house 1 in Scorpio).

CONCLUSIONS

In summary, the concept of a *quotient structure* leads us to a deeper understanding of the *cycle of becoming, harmonic charts, and arc transform charts*. Both *harmonic and arc transform charts* are the result of dividing out a particular angle in order to create the kinds of conjunctions and cycle completions that we are striving for. And each chart reveals an important face or facet of ourselves that we develop as we bring our various cycles to their completion.

It is important, though, to find yourself within each *harmonic* or *arc transform chart* that you look at, and if you cannot see yourself in any of those charts, then that suggests that the cycles whose unions are shown in these charts are still struggling for completion. For example, if you do not see a face of yourself in your *4th harmonic chart*, then it is likely that you still have much work to do regarding the lessons presented to you by your natal squares and oppositions.

The cycle of becoming, harmonic charts, and arc transforms are all connected together by the single concept of a quotient structure, and hopefully, this presentation illustrates the power of a good mathematical model. Additionally, ***May the MATH (and astrology) be with you!***



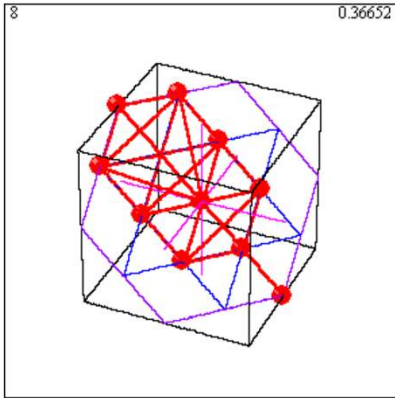
July 21, 2026



www.docbenton.com

WELCOME TO

Doc Benton's Academy for *Mathematical Wizards!*



Q-Astrology: Quaint (traditional), Quantitative, Quotient, Questing, Questioning

<u>The Cycle of Becoming, Quotient Structures, Harmonic Charts, and Arc Transforms</u>	<u>Astrology and Fractals</u>	<u>Arc Transform Charts - John Townley</u>	<u>My 17th Harmonic</u>	<u>Using Arc Transforms to Understand Transits</u>	<u>The Mars/Neptune Arc Transform in the USA Chart</u>	<u>Mathematical Models for Aspects</u>	<u>Quotient Structures and Graphic Ephemerides</u>	<u>Quotient Structures and Harmonic Astrology</u>	<u>Quotient Structures and Midpoints</u>
<u>Quotient Structures and Composite Charts</u>	<u>Quotient Structures and the Sabian Symbols</u>	<u>Quotient Structures and Enlightenment</u>	<u>Orbs in Harmonic Charts</u>	<u>The Cycle of Becoming</u>					

Q-Astrology: Quaint, Quantitative, Quotient, Questing, and Questioning