# *Primality Tree Analysis*

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**Abstract**

In this research manuscript, the author has detailed all about Primality Tree Analysis.

**Theory**

With respect to author's following research manuscripts presented in the insets in various colours, Analysis of Repeating Elements in the Primality Set.

***Representing Of Alphabets By Set Of Prime Numbers – Primality Engineering I***

**Abstract**

In this research investigation, the author has presented a *Scheme* wherein *Each* of the *Alphabets of English*are represented by a *Distinct Prime Number*, such that the thusly found *Set of Prime Numbers* also form a *Complete Recursive Sub-Set*.

**Theory**

***Method of Representation Of One Alphabet By One Distinct Prime Number***

Considering *English Language* for our *Analysis*, and specifically the *Alphabets* therein, we firstly consider *Any Alphabet*, say for example '*A*' and *Arbitrarily Assign* a *Prime Number* (of *2nd Order Space*) to it. We then also *Associate* a unique *Digital Voltages File Set* along each direction of the *Space*, namely, *x, y* and *z Directions* such that the file *Proportionately Quantifies* the *Voice Pronunciation* of the *Alphabet* of concern over the *Average Time Span** of the *Voice Pronunciation* of the considered alphabet. For this measurement, we can even set a *Specific Universal Co-ordinateSystem*, i.e., a *Nomenclature* for such aforementioned *Digital Measurements*.

(*it is *Very Important* to Use the concept of *Average Value* as later on, when we introduce the concept of *Intensity*alongwith, this notion of *Average* will be very useful, one can note that such *Averages* may be *Riggable*, but the pair of *Average Value* and *Intensity* for a lot of Alphabets of concern may not be)

We now use the author's TRL on '*Recursive Consecutive Element Differential Of Prime Sequence (And/ Or Prime Sequences In Higher Order Spaces) Based Instantaneous Cumulative Imaging Of Any Set Of Concern*' [8], we *Find* another *Distinct Prime Number* for another arbitrarily picked *Alphabet*, say '*B*' for which we already know the *Digital Voltages File Set* and *Voice Pronunciation*by *Construction*. We can keep *Refining* this newly found *Prime Number* for

*Alphabet* '*B*' by letting the *Prime Number Value* for *Alphabet* '*A*' run through a *Sequence of Prime Numbers* such that both *Alphabets* '*A*' and '*B*' can be represented by *TwoDistinct Prime Numbers*. We now similarly, find the *Distinct Prime Number* for any *Third* arbitrarily picked *Alphabet*, say '*C*' for which we already know the *Digital Voltages File Set* and *Voice Pronunciation*by *Construction*. At this stage, we can use the author's TRL on '*Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness (Version II)*' to find the *Complete Set of Prime Numbers* representing the rest of the *Alphabets* of *English Language*.We keep *Running* (through the *Prime Numbers* available to us) the previously found *Prime Numbers* for the *Alphabets* till we get all the (desirably and advantageously to be associated with Alphabets) *Numbers* representing the *Alphabets* to be *Prime*.

***Method of Representation Of Each Alphabet By A Distinct Set Of Distinct Prime Numbers***

In this method, we *Arbitrarily Assign* a *Set*(*Each* along the x, y and z Directions) Of *Distinct Prime Numbers* wherein *Each Such Set'sElement's Prime Number* is in *Normalized Proportion* to the *Digital Voltages File Set* corresponding to the*x*, *y* and *zDirections* of the *Alphabet* of concern. Now using this Pair of Values Of Sets, we find the *Set*(*Each* along the x, y and z Directions) Of *Distinct Prime Numbers*for another *Alphabet*, say '*B*'. Similarly, we find the *Set*(*Each* along the x, y and z Directions) Of *Distinct Prime Numbers*for another *Alphabet*, say '*C*'. We now use the author's TRL on '*Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness (Version II)*' to find the *Complete Set of Distinct Prime Numbers Set(s)* representing the rest of the *Alphabets* of *English Language*.

***Using 'Theory Of 'Complementable Bounds' And 'Universe(s) In Parallel' Of Any Sequence Of Primes Of $R^{th}$ Order Space' As A Constraint For Constructing The Ordered Set Of Prime Numbers Representing Any Alphabet Of Concern***

One can *Note* that we can *Impose* another *Important Constraint* in further *Refining Our* thusly *Constructed Ordered Set(s)*of *Prime Numbers*wherein *Each* such *SetRepresents Each Alphabet*. We do so by *Enforcing* the*Condition* of '*Complementable Bounds*' on *Each* of the *Ordered Prime Numbers Set*that *Represents Each Alphabet*. That is,*the Ordered Set* of *Prime Numbers* that is to*Represent an Alphabet* of concern *Should* have One Or More*Complementable*

*Bounds In* and/ or *Along* their *Ordered Sequence* such that in the *Reverse Direction* also, *Relative* to the*Complementable Bound Value, Each* of the *Prime Number* of this considered *Ordered Set* is again a *Prime Number*.
Furthermore, one can use author's *'Removing And/ Or Minimizing The Redundancies In The Primality Of Any Aspect Of Concern {Version II}', in Removing* any*Redundanacies*of*Primality*of the thusly constructed*Primality*of *Each Alphabet*, i.e., of *Each Set* of *Ordered Prime Numbers* that *Represents Any Alphabet Phonetically, Voice-Wise*.

**Moral**
*Love Is In The Alphabets As Our Very Near And Dear Teach Them To Us For The First Time In Our Life.*

# *Three Types Of Primalities*
## *1. Verbal Primality*
## *2. Act(ion) Primality*
## *3. Sense Understanding* and/ or *Perception Primality*
## *{Primality Engineering II}*


**Abstract**

In this research investigation, the author has presented *Construction* of *Three Types* of *Primalities*– namely, Verbal Primality, *Act(ion) Primality*and *Sense Understanding* and/ or *Perception Primality*.


***Theory***

***Primality Types***

In the context of author's '*Recursion Scheme Of Any Primality Tree Of Concern*', '*Generation of the Recursion Scheme Of Any Primality Tree of Concern*', and '*Generation of the Recursion Scheme Of Any Primality Tree of Concern {Version III}*' the author briefly describes the following:

1. *Verbal Primality* – At the word Level, it is simply the Voice Pronunciation Primality (as detailed already) of the Sequence of Alphabets (each again represented by a Set of Prime Numbers) of a word.

If we denote empty space by a break, we can simply form Sentence Primality and even Paragraph and/ or any *Textual Primality*.

2. *Act(ion) Primality*– It is again *Verbal Primality* of an *Action* and and/ or *Act* and/ or a *Video Sequence* (*1-Dimensional*, *2-Dimensional* and/ or *3-Dimensional*) described *Holistically Verbally*.
3. *Sense Understanding* and/ or *Perception Primality*– It is again *Verbal Primality* of an *Image* or a *Video Sequence* (*1-Dimensional*, *2-Dimensional* and/ or *3-Dimensional*) described *Holistically Verbally*.

For *Example*, when we wish to calculate 3. for a '*Mango*', we need to take a three dimensional *Matrix* (Video and/ or Solid Image) of a Mango and express this *Perception Basis* in *Verbal Basis* for Calculating 3. Similarly, one can calculate the same for a two dimensional Image as well.

Also, for better accuracy of Primality, we can construct 1. For '*Mango*' as follows:

*Perception of the Universe of Mango*
and/ or
*Perception of the Galaxy of Mango*
Also, one can Use the author's Redundancy Remover for Hyper-Refining the thusly computed Primalities.

Also, one can find the Primality of

*Perception of the Universe of Universal Consciousness Balance*

{*Perception of the Universe of Perception-Perception of the Universe of of-Perception of the Universe of the-Perception of the Universe of Universe-Perception of the Universe of of-Perception of the Universe of Universal-Perception of the Universe of Consciousness-Perception of the Universe of Balance*}

and/ or

{*Perception of the Galaxy of Perception-Perception of the Galaxy of of-Perception of the Galaxy of the-Perception of the Galaxy of Universe-Perception of the Galaxy of of-Perception of the Galaxy of Universal-*

*Perception of the Galaxy of Consciousness-Perception of the Galaxy of Balance*}

and can Quantum Average Any and Each of our Primality of Every Aspect (Word) with the above to Hyper-Refine it,

*Note*

One should take all *Care* as imposed by *Implementing* the Construction of the above *Primalities*such that they are *Constructed Compliant* with respect to the author's *Concept* of *Complementable Bounds Theorem*.

**Moral**

*Love Is In The Alphabets As Our Very Near And Dear Teach Them To Us For The First Time In Our Life.*

## ***Finding The Recursion Scheme Of Any Complete Primality Tree Of Concern***


**Abstract**

In this research investigation, the author has detailed a Scheme of '*Finding the Recursion Scheme Of Any Complete Primality Tree Of Concern'*.


**Theory**

In this research investigation, the author has detailed a Scheme of '*Finding the Recursion Scheme Of Any Complete Primality Tree Of Concern'*.

By *Complete Primality Tree*, we mean a *Primality Tree* that is of the *Type* of *Universal Beauty Primality Tree* and/ or *Universal Optimal Life Primality Tree*.

Considering *Any Complete Primality Tree* of concern, we *Note* the *Number* of *Branches* and the *Number* of *Elements* in *Each Branch*.

We now *Maximally Wind* up the *Elements* according to the *Scheme* as detailed below:

For *Example*, let the *Primality TreeBranches* be as denoted below:

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59 | | | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | | |
| 47 | 43 | 41 | 37 | 31 | 29 | 23 | 19 | 17 | 13 | 11 | 7 | 5 | 3 | 2 |
| 43 | | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | | |
| 31 | 29 | 23 | 19 | 17 | 13 | 11 | 7 | 5 | 3 | 2 | | | | |
| 29 | | | | | | | | | | | | | | |
| 23 | 19 | 17 | 13 | 11 | 7 | 5 | 3 | 2 | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 17 | 13 | 11 | 7 | 5 | 3 | 2 | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 11 | 7 | 5 | 3 | 2 | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |

Therefore, we *Slate* down a *Winding Scheme*as detailed below in the *Shade Legend:*

*Shade Legend*

| *Winding Length Denoted By Colour Shade* | *Count Of Interval Length Of Winding* |
|---|---|
| *First Winding Length Denoted By Colour Shade* | 3 |
| *Second Winding Length Denoted By Colour Shade* | 3 |
| *Third Winding Length Denoted By Colour Shade* | 2 |
| *Fourth Winding Length Denoted By Colour Shade* | 2 |
| *Fifth Winding Length Denoted By Colour Shade* | 4 |
| *Fifth Winding Length Denoted By Colour Shade* | 16 |

Therefore, we can note that, *Applying The Winding Scheme* of
(-3)←→(-3)←→(-2)←→(-2)←→(-4))←→(-16)
we can *Completely Wind* the given *Entire Primality Tree.*
One can also note that the *Branches* can also be *Prime Numbers* belonging to some *Sequence(s) Of Primes Of Higher Order Space(s)*{see *Author's Research*

*Literature* on the same}.

One can note that using the *Inverse Process* of the above *Winding Scheme*, one can even *Generate* the *Entire Primality Tree* of concern {see *Author's Research Literature* on the same}.

**Moral**

*Birds Of The Same Feather Flock Together.*

**Conclusion**

One can note that the Recursion Scheme of the Primality finds great use in many facets of Engineering, Science, Mathematics, Art and Technology.

## *Finding The Recursion Scheme Of Any Complete Primality Tree Of Concern*

## *Generation Of The Recursion Scheme Of Any Complete Primality Tree Of Concern {Version II}*

**Abstract**

In this research investigation, the author has detailed a Scheme of '*Finding the Recursion Scheme Of Any Complete Primality Tree Of Concern*'. Also, the author has detailed a Scheme of '*Generation Of The Recursion Scheme Of Any Complete Primality Tree Of Concern*'.

**Theory**

In this research investigation, the author has detailed a Scheme of '*Finding the Recursion Scheme Of Any Complete Primality Tree Of Concern*'.

By *Complete Primality Tree*, we mean a *Primality Tree* that is of the *Type* of *Universal Beauty Primality Tree* and/ or *Universal Optimal Life Primality Tree*. {see authors' }

*<u>Finding the Recursion Scheme Of Any Complete Primality Tree Of Concern</u>*

Considering *Any Complete Primality Tree* of concern, we *Note* the *Number* of *Branches* and the *Number* of *Elements* in *Each Branch*.

We now *Maximally Wind* up the *Elements* according to the *Scheme* as detailed below:

For *Example*, let the *Primality TreeBranches* be as denoted below:

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59 | | | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | | |
| 47 | 43 | 41 | 37 | 31 | 29 | 23 | 19 | 17 | 13 | 11 | 7 | 5 | 3 | 2 |
| 43 | | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | | |
| 31 | 29 | 23 | 19 | 17 | 13 | 11 | 7 | 5 | 3 | 2 | | | | |
| 29 | | | | | | | | | | | | | | |
| 23 | 19 | 17 | 13 | 11 | 7 | 5 | 3 | 2 | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 17 | 13 | 11 | 7 | 5 | 3 | 2 | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 11 | 7 | 5 | 3 | 2 | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |

Therefore, we *Slate* down a *Winding Scheme* as detailed below in the *Shade Legend:*

*Shade Legend*

| *Winding Length Denoted By Colour Shade* | *Count Of Interval Length Of Winding* | *Frequency* | *Frequency Pertaining to Branch From Prime* |
|---|---|---|---|
| *First Winding Length Denoted By Colour Shade* | 3 | 1 | 47 |
| *Second Winding Length Denoted By Colour Shade* | 3 | 2 | 47, 37 |
| *Third Winding Length Denoted By Colour Shade* | 2 | 3 | 47, 37, 23 |
| *Fourth Winding Length Denoted By Colour Shade* | 2 | 4 | 47, 37, 23, 17 |
| *Fifth Winding Length Denoted By Colour Shade* | 4 | 5 | 47, 37, 23, 17, 11 |
| *Sixth Winding Length Denoted By Colour Shade* | 16 | 1 | 2 |

Therefore, we can note that, *Applying The Winding Scheme* of
(-3) (-3) (-2) (-2) (-4) (-16)
we can *Completely Wind* the given *Entire Primality Tree.*
One can also note that the *Branches* can also be *Prime Numbers* belonging to some *Sequence(s) Of Primes Of Higher Order Space(s)* {see *Author's Research Literature* on the same}.
One can note that using the *Inverse Process* of the above *Winding Scheme*, one can even *Generate* the *Entire Primality Tree* of concern {see *Author's Research Literature* on the same}.
*Generation Of The Recursion Scheme Of Any Complete Primality Tree Of Concern*
For Generation, we can note that for the above mentioned example,
We grow Our *Primality Tree* by starting from 2 onwards until +16. We then Calculate the Branching Positions {Using the Rule of *Recursion Scheme of Winding* aforementioned} as
$(4+1)^{th}$ Prime = $5^{th}$ Prime
$(4+2+1)^{th}$ Prime =$7^{th}$ Prime
$(4+2+2+1)^{th}$ Prime = $9^{th}$ Prime
$(4+2+2+3+1)^{th}$ Prime =$12^{th}$ Prime
$(4+2+2++3+3+1)^{th}$ Prime =$15^{th}$ Prime

Since the *Second Last Winding* was of *Wind Interval Length* 4 and of *Frequency* 5 *Pertaining* to all the *Branches* (*Emanating* from the *Primes* 47, 37, 23, 17, 11), we *Generate* the *Consecutive Primes* On The *Lower SideUpto* 4 Terms for *All* these *Branches.*
Since the *Third Last Winding* was of *Wind Interval Length* 2 and of *Frequency* 4 *Pertaining* to the *Branches* (*Emanating* from the *Primes* 47, 37, 23, 17), we *Generate* the *Consecutive Primes* On The *Lower Side Upto* 2 Terms *Only* for these *Branches.*
Since the *Fourth Last Winding* was of *Wind Interval Length* 2 and of *Frequency* 3 *Pertaining* to the *Branches* (*Emanating* from the *Primes* 47, 37, 23), we *Generate* the *Consecutive Primes* On The *Lower Side Upto* 2 Terms *Only* for these *Branches.*
Since the *Fifth Last Winding* was of *Wind Interval Length* 3 and of *Frequency* 2 *Pertaining* to the *Branches* (*Emanating* from the *Primes* 47, 37), we *Generate* the *Consecutive Primes* On The *Lower Side Upto* 2 Terms *Only* for these *Branches.*
Since the *Sixth Last Winding* was of *Wind Interval Length* 3 and of *Frequency* 1 *Pertaining* to the *Branches* (*Emanating* from the *Primes* 47), we *Generate* the

*Consecutive Primes* On The *Lower Side Upto* 1 Terms *Only* for these *Branches*.

The resulting *Primality Tree* is the *Generated Complete Primality Tree* of concern.

*Recursion Scheme Of the Generated Complete Primality Tree*

First
We consider the Prime 2 and let it Grow till (+16) Terms
represented by

| *Branch Emanating From* | *Number of Terms until which Growth* is considered* |
|---|---|
| 2 | (+16) |
| | *First Growth Length* |

Then,

| *Branch Emanating From* | *Number of Terms until which Growth* is considered* | *Number of Terms until which Growth* is considered* | *Number of Terms until which Growth* is considered* | *Number of Terms until which Growth* is considered* | *Number of Terms until which Growth* is considered* |
|---|---|---|---|---|---|
| 47 | (+3) | (+3) | (+2) | (+2) | (+4) |
| 37 | (+0) | (+3) | (+2) | (+2) | (+4) |
| 23 | (+0) | (+0) | (+2) | (+2) | (+4) |
| 17 | (+0) | (+0) | (+0) | (+2) | (+4) |
| 11 | (+0) | (+0) | (+0) | (+0) | (+4) |
| | *Second Growth Length* | *Third Growth Length* | *Fourth Growth Length* | *Fifth Growth Length* | *Sixth Growth Length* |

*Note* that *Growth** at any *Branch Term* is considered *Starting* from 2 for the *First Time* and *Continuing* from *Henceforth Prime* for the *Next Time*, at *Wherever Prime* it *StoppedBefore*. Also, (+0) *Growth* implies *No Growth*.

*Note* that the (+0) *Growth* can be *Represented* by the *Null Value* of a *SignumFunction* while (+n) *Growth* can be *Represented* by the *Unit* (*Prime Term Consideration*) *Increment Value* of a *Signum Function*.

Alternately, the same *Aspect* can be *IncorporatedUsing* a *Dirac-Delta Function*.

**Moral**

*Birds Of The Same Feather Flock Together.*

**Conclusion**

One can note that the *Recursion Scheme* of the *Primality* finds great use in many facets of *Engineering*, *Science*, *Mathematics*, *Art* and *Technology*.

***Universal Objective Of The Universe***
***Universal Beauty Primality***
***Universal Optimal Life Primality***
***The Aforementioned Three Aspects As Restrictions For Evolution***
***{Version II of All The Aforementioned}***

**Abstract**

In this research manuscript, the author has detailed '*Universal Objective Of The Universe*', '*Universal Beauty Primality*', '*Universal Optimal Life Primality*', '*The Aforementioned Three Aspects As Restrictions For Evolution*'**.**

**Theory**

In this research manuscript, the author has detailed '*Universal Objective Of The Universe*', '*Universal Beauty Primality*', '*Universal Optimal Life Primality*', '*The Aforementioned Three Aspects As Restrictions For Evolution*'**.**

*Definitions*

***Universal Beauty Primality***

*Any Primality is considered a Beautiful Primality when it, in totality can be Expressed as the Union Of Complete Recursive Sub-Sets Of **Some** Set of Concern, {inclusive of the Complete Recursive Sub-Sets in the Orthogonal (Lateral) Spaces, Found toExhaustion} including the **Some** Set of Concern. Furthermore, such Primality should have Maximum possible Precision of 'Pi' Value and/ or its Higher Order Equivalent Value.*

*{see author's '*Universal Truth Of Recursive Kind {Version II}*', ''*Pi*', i.e., $\pi$ i.e., $\pi(2)$ *Value And/ Or Its Higher Order Equivalents* i.e., $\pi(N)$ *Precision Increase Based Refinement Of Any Primality And/ Or Any Recursion Scheme Of Any Aspect Of Concern*', '*Complete Recursive Subsets Of Any Set Of Concern And/ Or*

*Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness (Version II)'}*

***Universal Objective Of The Universe***

*The Universal Objective of the Universe is to Constantly Keep Increasing Its Universal Beauty Primality, That Is, The Holistic Symmetry Primality of the Universe, Inclusive Of In The Orthogonal (Lateral) Spaces {Universes In Parallel Of The Universe Found To Exhaustion In The Orthogonal (Lateral) Spaces}, in such a fashion that the Precision of 'Pi' Value and/ or its Higher Order Equivalent Value of the Universe of concern is Maximum.*

***Universal Optimal Life Primality***

*When a Given Complete and/ or Rectified Set Grows to a Universal Beautiful Primality Set, it can be Called as a Universal Optimal Life Primality. As to the aspect of where the thusly found Complete Recursive Sub-Sets {inclusive of the Complete Recursive Sub-Sets in the Orthogonal (Lateral) Spaces, Found to Exhaustion} have to be connected to the original given Set of concern, one can note that the Graph Set of Such Branching Connections Co-ordinates must also Form One Beautiful Primality Set. An Iterative Process starting from around the Median Element and/ Or Centroid Element of the Given Set of concern can help us Characterize such a Graph Set of Such Branching Connections Co-ordinates.*

***Complete Set and/ or Rectified Set***

A *Complete Set* and/ or a *Rectified Set* is a *Set* which conforms to the following aspects:

1. All it's*Elements* are *Distinct* and/ or the *Set* is *Already* in a *State* of *Universal Beauty Primality*, inclusive of *Graph Set of Branching Connections Co-ordinates* for the *Repeating Elements*.
2. The *Set* has *All* its *Elements Belonging* to a *Particular Sequence Of Primes of Higher Order (≥2) Space*. For the Set that is already in a *State* of *Universal Beauty Primality*, inclusive of *Graph Set of Branching Connections Co-ordinates* for the *Repeating Elements,* each *Element of Any* given such *Branch* {inclusive of the *Main Given Set Stem*} *Belong* to a *Particular Sequence Of Primes of Higher Order (≥2) Space.*
3. *Each Element* of the *Complete Set* and/ or each *Element* of *Any* given such *Branch Belong* {inclusive of the *Main Given Set Stem*} to their *Particular Prime Metric Base Position Characteristic* of the*Sequence Of Primes of Higher Order (≥2) Space,* that they belong to.
4. There are *No Breaks* with regards the *Filling Aspect* of *Prime Metric Base*

*Position Characteristic* of the*Sequence Of Primes of Higher Order (≥2) Space*, that *Each Element* of the *Complete Set* and/ or each *Element* of *Any* given such *Branch Belong* {inclusive of the *Main Given Set Stem*}.That is, *All*{starting* from Some Prime Number of concern and Consecutively considering Prime Numbers upwards until another Prime Number of concern, with all these Prime Numbers *Belonging* to a *Particular Sequence Of Primes of Higher Order (≥2) Space*} the *Elements* of *Any Given Sequence Of Primes* are *Present Along The Prime Metric Bases Positions Characteristic* of the*Sequence Of Primes of Higher Order (≥2) Space*, that *Each Element* of the *Complete Set* and/ or each *Element* of *Any* given such *Branch Belong* {inclusive of the *Main Given Set Stem*}.

5. For the *Case* of *Definition* of *Universal Optimal Life Primality*, {* The *Starting Point* is the *First Prime Number* of the considered {*in* 4} *Particular Sequence Of Primes of Higher Order (≥2) Space*}.

{see author's '*Universal Recursive Scheme To Generate The Sequence Of Primes Of Any Order {Say, $R^{th}$} Space*', '*The Prime Sequence Generating Algorithm*', '*The Prime Sequence's (Of Higher Order Space's) Generating Algorithm*', '*Universal Natural Recursion Schemes Of $R^{th}$ Order Space*', '*Universal Aspect Recursion Scheme {Version 2}*', '*Universal Recursive Algorithmic Scheme To Generate The Sequence Of Primes {Of Second ($2^{nd}$) Order Space}*'}

***The Aforementioned Three Aspects As Restrictions For Evolution***

One can know that the above three *Laws*, namely, *Universal Beauty Primality*, *Universal Objective Of The Universe* and *Universal Optimal Life Primality* can be used as *Constraints* and/ or *Restriction* for *Hyper-Refining* author's *Theory Of Evolution*

*{see author's ''Theory Of Evolution Based On Consecutive Asymmetric Imaging Technique', 'Evolution Through Quantization (Version III)', 'Universal Recursive Tessellation Based Scheme To Derive The Evolution Scheme Of Any Aspect Set Of Concern {Evolution Through Quantization (Version Two)}', 'Evolution Through Quantization', 'Universal One Step Natural Evolution And/ Or Growth Scheme Of Any Set Of Concern And Consequential Evolution Quantization Based Recursion Scheme Characteristically Representing Such Aforementioned Evolution And/ Or Growth'}.*

**Conclusion**

One can note that these presented *Definitions* will *Play* a *Profound Role* as *Axioms of Importance*, in the *Theory Of Evolution*, *Life Engineering* and/ or *Redundancy Minimization Of Any Primality Set Of Any Aspect of concern*.

**Moral**

*Red-Un-Dance-Y (?)is Lack Of Universal Beauty Primality*.

## *One Step Evolutionary Growth Of Any Set Of Concern {EvolutionVersion 5}*

**Abstract**

In this research manuscript the author has detailed '*One Step Evolutionary Growth Of Any Set Of Concern*'.

**Theory**

Considering any Primality Set {composed of Elements which belong to Sequence Of Primes Of All Order Space(s)}, say, $PS_1$.

*Note*: All the Numbers that do not Belong to Any Set of Sequence of Higher Order Primes can be Axiomatically Taken to Belong to Sequence Of Primes of Order Space 1.

We consider One Step Evolution of $PS_1$ as the Primality Set, say $PS_{1E1}$ which is basically a Set wherein each of the Prime Number (Of Any Order Space)of the Primality Set $PS_1$ has reached its Next Consecutive Prime Number State.

However, we express this Primality $PS_{1E1} = PS_1 + \Delta_{PS_{1E1}-PS1}$

Also, we express the Primality $\Delta_{PS_{1E1}-PS1}$ as $\bigcup_{k=1}^{N}\left\{{}^{k_j}PS_k\right\}$ where

$\left\{{}^{k_j}PS_k\right\}$ denotes a $k^{th}$ Primality Set (of $N$ Primality Sets) which is Composed of Sequence Of Primes of Order Space $k_j$, for $j \le N$.

That is the Difference Primality Set is actually a Union (to Exhaustion) Of Primality Sets of Elements belonging to Sequence of Primes of Order Spaces 1, 2, 3, 4,5,.....etc. Again when we consider One Step Evolution of this PrimalitySet $PS_{1E1}$, we again consider the Difference Primality Decomposition in the Same Fashion, to Exhaustion.

This is how One Step Evolutionary Growth of Any Set Happens.

**Moral**

*Evolution Is Optimal Growth*.

## *Universal Cross Product*


**Abstract**

In this research manuscript, the author has elucidated the '*Universal Cross Product*' of two Sets not necessarily equal in Size.


**Theory**

In this research manuscript, the author has elucidated the '*Universal Cross Product*' of two Sets not necessarily equal in Size.

Firstly, we consider two sets $\{S_1\}$ and $\{S_2\}$ such that their elements are given by

$\{S_1\} = \left\{ {}^{3}_{4}S_1,\ {}^{3}_{5}S_1,\ {}^{2}_{3}S_1,\ {}^{1}_{4}S_1,\ {}^{5}_{6}S_1,\ {}^{5}_{7}S_1,\ {}^{3}_{8}S_1,\ {}^{4}_{4}S_1 \right\}$ and

$\{S_2\} = \left\{ {}^{3}_{4}S_2,\ {}^{3}_{5}S_2,\ {}^{3}_{11}S_2,\ {}^{3}_{8}S_2,\ {}^{5}_{7}S_2,\ {}^{4}_{4}S_2 \right\}$

where, the notation ${}^{\alpha}_{\beta}S_i$ implies that it is $\beta^{th}$ Position Prime Metric Base Element

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of Sequence Of Primes of Order Space $\alpha$

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and that this element belongs to the $i^{th}$ Set, namely $S_i$.

Therefore, $\{S_1\} = \left\{ \begin{matrix} {}^{3}_{4}S_1, {}^{3}_{5}S_1 \\ {}^{2}_{3}S_1 \\ {}^{1}_{4}S_1, {}^{5}_{6}S_1, {}^{5}_{7}S_1 \\ {}^{3}_{8}S_1 \\ {}^{4}_{4}S_1 \end{matrix} \right\}$ which can be represented by

$$\{S_1\} = \left\{ \begin{matrix} \Phi & \Phi & \Phi & {}^{1}_{4}S_1 & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & {}^{2}_{3}S_1 & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & {}^{3}_{4}S_1 & {}^{3}_{5}S_1 & \Phi & \Phi & {}^{3}_{8}S \\ \Phi & \Phi & \Phi & {}^{4}_{4}S_1 & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & {}^{5}_{6}S_1 & {}^{5}_{7}S_1 & \Phi \end{matrix} \right\}$$

where $\Phi$ indicates a Null Set, i.e., no Element.

And $\{S_2\} = \left\{ \begin{matrix} {}^{3}_{4}S_2, {}^{3}_{5}S_2, {}^{3}_{7}S_2 \\ {}^{5}_{7}S_2 \\ {}^{4}_{4}S_2 \end{matrix} \right\}$ which can be represented by

$$
\{S_2\} = \left\{\begin{matrix} \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & {}^{3}_{4}S_2 & {}^{3}_{5}S_2 & \Phi & {}^{3}_{7}S_2 \\ \Phi & \Phi & \Phi & {}^{4}_{4}S_2 & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & {}^{5}_{7}S_2 \end{matrix}\right\}
$$

Where $\Phi$ indicates a Null Set, i.e., no Element.

We note that the two sets $\{S_1\}$ and $\{S_2\}$ are of different Size after the rendering in the afore-detailed rectangular array, therefore, we upgrade the Lower Sized Set to the Higher Sized Set by simply inserting a $\Phi$, i.e., a Null Set, i.e., no Element at the Blank Spaces.

We now consider the *Universal Cross Product* of the two sets $\{S_1\}$ and $\{S_2\}$ in the following fashion

$$
\{S_1\}\times\{S_2\} = \left\{\begin{matrix} \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \left({}^{3}_{4}S_1\times{}^{3}_{4}S_2\right) & \left({}^{3}_{5}S_1\times{}^{3}_{5}S_2\right) & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \Phi \\ \Phi & \Phi & \Phi & \Phi & \Phi & \Phi & \left({}^{5}_{7}S_1\times{}^{5}_{7}S_2\right) & \Phi \end{matrix}\right\}
$$

i.e.,

$$
\{S_1\}\times\{S_2\} = \left\{\left({}^{3}_{4}S_1\times{}^{3}_{4}S_2\right), \left({}^{3}_{5}S_1\times{}^{3}_{5}S_2\right), \left({}^{5}_{7}S_1\times{}^{5}_{7}S_2\right)\right\}
$$

where, the *Operation* '$\times$' can be anything, for example, *An Ordered Pair*, *Addition*, *Multiplication*, *Subtraction*, *etc.*

**Conclusion**

One can note that this concept of ***Universal Cross Product*** finds use in many facets of Mathematics, Science and Engineering.

## ***Hyper-Primality Representation***

*'Representing Of Alphabets By Set Of Prime Numbers – Primality Engineering I'*, *'Three Types Of Primalities 1. Verbal Primality 2. Act(ion) Primality 3. Sense Understanding* and/ or *Perception Primality {Primality Engineering II}'* can also be constructed analogously for Voice Sounds Magnitudes and Intensities that can be equivalenced to Elements of Sequence Of Primes of Orders greater than 2 and also of order 1, (in addition to the above initially detailed case of Order 2).

We call such a Representation *Hyper-Primality Representation*. We can also call this Representation *Composite Hyper-Primality Representation*, wherein all Positive Numbers are used and also these Positive Numbers are actually a Union of Set(s) Of Sequence(s) Of Primes Of Every Positive Integer Order Spaces. Such a Representation may be necessary to describe Higher Order Physical Phenomena Manifestations, Intricately Beautiful Aspects, Smoothly Continuous Sets Based Functions, etc.

***Repetition Analysis***

All repeating Elements frequencies are noted and one can note that Any Number of Branches can stem from a point if there are sufficient number of Prime Numbers (belonging to a Certain Order Space) immediately penultimately lower to the branching Prime point and they also fulfill the completion of the branch.

The branching occur in accordance to the author's rule already stated.

**Conclusion**

One can note that, as stated in the aforementioned lines, one can Analysze any Primality Tree to completeness.

***Moral***

*All Good Aspects Are Completely Beautiful.*

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**Ramesh Chandra Bagadi**

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Ramesh C. Bagadi
(Submitted on 20 Sep 2010 (this version))


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## *Tribute*

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***Dedication***

*All of the aforementioned Research Works, inclusive of this One are* ***Dedicated to Lord Shiva****.*