



# *Musical Life*




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## Abstract

In this research monograph, the author presents a '*Holistic And Optimal Scheme For Music Composition*'. The author uses the language of '*Samskrutam*' and the '*Carnatic*' Music Basis for such a construction.

## Theory

Firstly, one should that according to '*Carnatic*' Music Bases, there are three types of bases, namely '*Swara*', '*Raga*' and '*Tala*'.

Basically, we have the seven notes of fundamental kind listed below

*Sa-Rey-Ga-Ma-Pa-Dha-Nee-Sa*

Therefore, one can make at least  $7! = 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 5040$  number of distinct notes by just using them all in (all possible various arrangements) each only ones.

Therefore, one can construct the Recursion Schemes of all these 5040 notes using the authors Primality Engineering Technology. Furthermore, one should note that one can consider making notes taking one at a time, two at a time, three at a time, and so on so forth using all at a time. This gives us

Music Segment with only 1 Note can be composed in (7 ways) = 7 ways

Music Segment with 2 Notes can be composed in (7x6 ways) = 42 ways

Music Segment with 3 Notes can be composed in (7x6x5 ways) = 210 ways

Music Segment with 4 Notes can be composed in (7x6x5x4 ways) = 840 ways

Music Segment with 5 Notes can be composed in (7x6x5x4x3 ways) = 2520 ways

Music Segment with 6 Notes can be composed in (7x6x5x4x3x2 ways) = 5040 ways

Music Segment with 7 Notes can be composed in (7x6x5x4x3x2x1 ways) = 5040 ways

Therefore, one can make any musical segment having all of its notes being distinct and non-repeating in 4699 number of ways which is gotten by adding all the aforementioned number of ways.

Assuming that all these types of musical segments form the Universe of distinct notes that are used only once, we now arrange all the above 4699 musical segments along the Prime-Metric by finding an appropriate basis to do so. {see author's works at [www.vixra.org/author/ramesh\\_chandra\\_bagadi](http://www.vixra.org/author/ramesh_chandra_bagadi) } to know more on such alignment of any set's elements along a specially designed Prime Metric of concern.

*Note:* If this not possible at some places along the Prime Metric, one can insert necessary notes that fills in the blanks as a nicely joining '*Cadence*' segment.

Now, one can note that this particular sequence of musical segments will be one '*Holistic Optimal Musical Super-Segment*'. One can find the Recursion Scheme of this '*Holistic Optimal Musical Super-Segment*'. Also, one can evolve this segment to the level of the Universe, i.e., until it shows semblance with the Recursion Scheme of the Universe we know of, sans the magnitude aspect as the magnitude of the Recursion Scheme of this '*Holistic Optimal Musical Super-Segment*' will be very tiny compared to that of the magnitude of the Recursion Scheme of the Universe.

*Note:* One can also construct Musical Segments with repeating (more than once) notes as well, but we need to first align any such segment along the Prime-Metric by finding an appropriate basis to do so.

*Note:* If this not possible at some places along the Prime Metric, one can insert necessary notes that fills in the blanks as a nicely joining '*Cadence*' segment.

As a matter of fact, one can use this restriction of alignment of any Music Segment along the Prime Metric as a quality test.

Furthermore, one can also align music notes temporally along the 'Recursion Scheme' of '*TIME*', of '*SPACE*' and/ or of '*SKY*', of '*WATER*', of '*FIRE*', of '*EARTH*', of '*AIR*', of 'Any quality of concern' such as '*Harmony*', etc., that we wish to impart to our Music.

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