

## **Introduction to an excerpt of the chapter “The SignalGlyph Project & Prime Numbers” from the book *The Image of Language***

If the inherent relations of numbers are conceptualized as being non-dimensional, rather than being limited to formulations within the dimensionally bound language of mathematics; interdependent processes within a rigorous system can exist that are not related temporally or spatially. Proof of such an interrelationship rests solely on the predictability of a consistent interaction of mutual content. Although counting is a temporal process, numbers themselves are non-dimensional. All ‘Natural’ numbers and their relationships existed before names, symbols, and associations to axioms were attached to them (they are applicable even to nonmaterial phenomena moving at the speed of light). Numbers can be used to describe time and space, but they are not bound to their dimensional limitations; they are the purely relational features of Nature’s design.

If the numbers 2, 3, and 5 are treated as a separate class of ‘Elemental Numbers,’ the distribution of all other prime numbers to infinity is rigorous and predictable based on two temporally and spatially separate processes that have an observable interaction that is 100% consistent. Number theorists are aware of the two processes involved in the system of prime distribution—they describe them as a reduced residue class and a sieving routine. But they can’t describe the interaction of the processes because the accepted language of mathematics has a uniform dimensionality, and the interaction of the processes needs to be non-dimensional to fulfill its purpose—although prime distribution is an entirely rigorous system, the system’s purpose is to generate an infinitely varying pattern of reference markers that Nature uses to keep her constantly progressing cycles in sync (that’s why primes relate to things like wave properties). To a mathematician, the distribution of prime numbers, as described in the chapter, looks like a multiplicative operation is factoring the previous members of a separately occurring additive cycle, and those products only mirror future members of that separate cycle, and don’t functionally influence their role. But actually, there is no previous or future context or space/time separation in a non-dimensional context of relationship.

Michael Winkler

I can't remember what initially got me thinking about the claim that mathematics is a universal language, but I remember seeing an algebraic formula and realizing that if aliens from another planet saw it, it would be meaningless. The concept of numbers is universal, but the way we describe their relationships is not. And it's not just the symbols we use in mathematical formulas that are not connected to the universal features of numbers. Algebraic language is based on axioms of human reasoning. These axioms of logic are not, strictly speaking, inherent aspects of numbers. Algebraic logic is based entirely on progressively ordered formulations. The relation of numbers is viewed differently when it's seen from the perspective of natural phenomena. Nature routinely organizes an interplay of rigorously convergent constructions composed of two or more independent chains of progressively ordered formulations. For example, all events in the universe arise from an interaction of both Time and Space. Each of those dimensions has a rigorously progressive logic which seems unrelated to the other. The logic of their interaction only becomes apparent when the overall phenomenon of their relationship is observed.

This also happens in the inherent relationships of numbers. An example is the patterning of the distribution of prime numbers (numbers equally divisible only by 1 and themselves). We're taught there is no patterning in the distribution of primes (no patterning which predicts the places where primes will emerge within the natural sequence of the counting of numbers). But when I looked at where the primes were emerging, I discovered empiri-

cal evidence that two separate processes were interacting to create a system which produces endless, but predictable, variations. We can see how the system of prime distribution works by making a chart.

If we write the numbers 0 through 29 in a horizontal line, then write 30 through 59 under those numbers, then write 60 through 89 on the next line, and so on—until we've written every number to infinity; *all prime numbers in existence (except for 2, 3, and 5) will be found in eight rows lined up under the prime numbers 1, 7, 11, 13, 17, 19, 23, and 29. No primes will ever emerge in the other twenty-two rows except for the numbers 2, 3, and 5 (see the chart on the next page).*

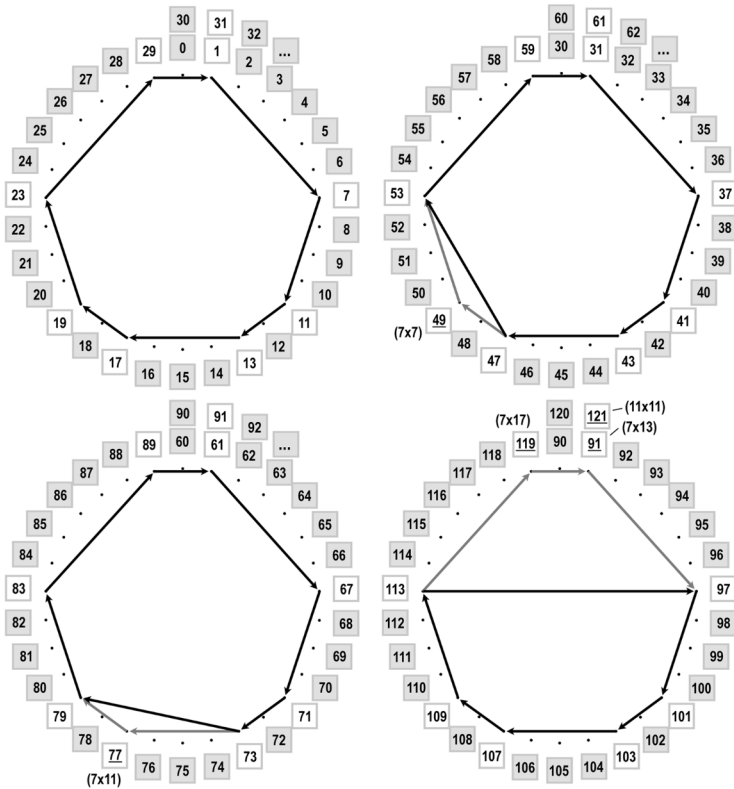
But this continuous cycle is only part of the system of prime distribution. When a prime appears in the cycle, it's involved in another rigorously interacting process. *After a prime emerges, products based on that prime's sequential multiplication by powers of itself and every emerged prime will appear in future progressions of the eight-position cycle.* Here's how it works. The first prime to appear is 7. When 7 is multiplied by itself, the product is 49; so the composite 49 appears in one of the eight locations in the next rotation of the cycle. Then 7 is multiplied by the second prime to appear, 11; so 77 is the next composite to appear. Then 7 is multiplied by the third prime, 13 which results in including the composite, 91. And this continues, 7 is infinitely multiplied by powers of itself and every higher prime. This same process occurs for every prime number after it emerges in the cycle.

**WHITE - Primes      GRAY - Composites (and 2.3.5)      BLACK - Initial products of previously occurring primes**

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89
90	7x13	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	7x17
120	11x11	122	123	124	125	126	127	128	129	130	131	132	7x19	134	135	136	137	138	139	140	141	142	11x13	144	145	146	147	148	149
150	151	152	153	154	155	156	157	158	159	160	7x23	162	163	164	165	166	167	168	13x13	170	171	172	173	174	175	176	177	178	179
180	181	182	183	184	185	186	11x17	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	7x29	204	205	206	207	208	11x19
210	211	212	213	214	215	216	7x31	218	219	220	13x17	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	13x19	248	249	250	251	252	11x23	254	255	256	257	258	7x37	260	261	262	263	264	265	266	267	268	269
270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	7x41	288	17x17	290	291	292	293	294	295	296	297	298	13x23
300	7x43	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	11x29	320	321	322	17x19	324	325	326	327	328	7x47
330	331	332	333	334	335	336	337	338	339	340	11x31	342	7x47	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359
360	19x19	362	363	364	365	366	367	368	369	370	7x53	372	373	374	375	376	13x29	378	379	380	381	382	383	384	385	386	387	388	389
390	17x23	392	393	394	395	396	397	398	399	400	401	402	13x31	404	405	406	11x37	408	409	410	411	412	7x59	414	415	416	417	418	419
420	421	422	423	424	425	426	7x61	428	429	430	431	432	433	434	435	436	19x23	438	439	440	441	442	443	444	445	446	447	448	...

**Enlarged upper-left section of the table above is shown below**

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
90	7x13	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114
120	11x11	122	123	124	125	126	127	128	129	130	131	132	7x19	134	135	136	137	138	139	140	141	142	11x13	144
150	151	152	153	154	155	156	157	158	159	160	7x23	162	163	164	165	166	167	168	13x13	170	171	172	173	174
180	181	182	183	184	185	186	11x17	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	7x29	204
210	211	212	213	214	215	216	7x31	218	219	220	13x17	222	223	224	225	226	227	228	229	230	231	232	233	234
240	241	242	243	244	245	246	13x19	248	249	250	251	252	11x23	254	255	256	257	258	7x37	260	261	262	263	264



All these composite-products of previously emerging primes appear in future cyclic progressions of the primes. The appearance of every prime number spawns an endless string of composites which will occupy places in future manifestations of their own cycle. These composite products are factored from the unevenly spaced originating cycle, but the patterning of their factorization is independent of the patterning of the additive formulation of the originating cycle. The system's overall regularity isn't superficially apparent. Rigorous interaction of the indepen-

dent processes creates a system which generates infinite variation. The space between the emerging primes has a continual tendency to increase—because primes in future cycles are being displaced by more and more composite-products of the previously emerging primes. It's a beautiful system. *The variation in the initial appearance of the primes causes a variation in the amount of composites included in future cycles, which then causes further variation in the emergence of primes.* It's a process of variations in *cause* creating new variations in *effect* which create new variations in *cause*—and it continues infinitely!

*The entire system is completely rigorous, and the appearance of every prime number and every composite can be predicted in advance (see the chart).* However, the observably rigorous interaction between the two processes cannot be expressed algebraically. Number theorists are aware of both processes involved, but they identify them as separate features of prime distribution (as a *reduced residue class* and a *sieving routine*) rather than as the components of a single phenomenon. Lack of recognition of the system as a whole has led to the false impression that the future emergence of prime numbers is not known to be infinite. The Electronic Frontier Foundation has been awarding prizes for finding larger and larger prime numbers. However, when we look at the process of prime distribution, it's obvious that new primes will always emerge.

Primeness is used by Nature to create a system of markers which uniquely identify specific locations along the landscape of infinite progression. All of Nature's forces have to be kept in sync or the fabric of the universe would fall apart, but Time is an ever-evolving continuum. Locations on the landscape of its infinite continuum have to be uniquely identifiable—Nature's forces need reference points to maintain the alignment of their synchronization (that is why prime numbers relate to things like wave properties).

Since 2, 3, and, 5 are the only prime numbers within the infinite set which are not included in the system, logic dictates they must be special numbers that are not part of the other class of numbers divisible only by 1 and themselves (I refer to them as *elemental numbers*). Three exceptions to a predictable set of all other numbers in an infinite class cannot logically be cited as disproving the existence of a rigorous system. The inherent weakness of algebra's limitation of incremental structure obscures our view of the patterning underlying the process of the distribution of primes.

The fact that the two processes involved in prime distribution are not structurally attached in conceptual space is not a reason to dismiss the existence of their empirically observable relationship. An observable interaction having no apparent incremental structure exists in Quantum Mechanics, most strikingly in the theory of Quantum Entanglement.

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