

The Encoded Earth

The Origin of Life's Chemicals and Codes

“...we will grasp the central idea of it all as so simple, so beautiful, so compelling that we will all say each to the other, ‘Oh, how could it have been otherwise! How could we all have been so blind for so long!’”

J A Wheeler

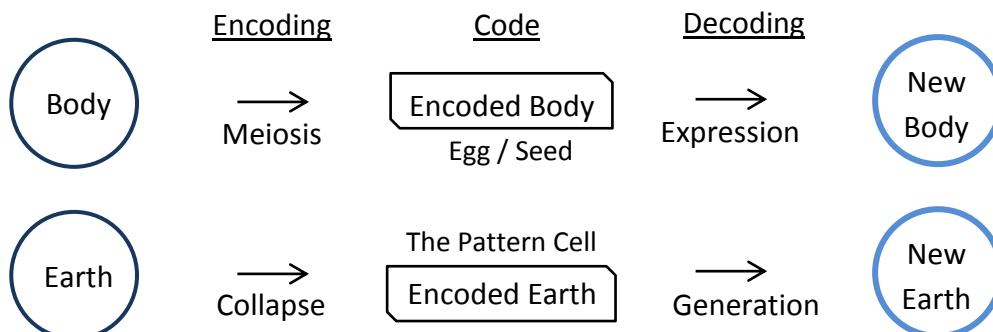
Could the earth that we inhabit be the seed of an original higher-dimensional earth? This question is the subject of ‘the encoded earth’ hypothesis. The hypothesis states that the encoded earth is what the earth became after the collapse of the original living earth.

The Pattern cell is a model of the encoded earth. It is derived from the Pattern Cube that is derived from the Pattern code which is, in turn, derived from the Pattern Cluster.

The Pattern Cube consists of three Light-cones and four Life-cones. The Light-cones contain the chemical elements and the Life-cones contain the codons (of the genetic code). One Light-cone is red, one is purple and one is blue. A Life-cone is a combination of all three colours.

Chemicals are the substances of life, and codons are the letters of life. The codons of the genetic code are a highly structured and compressed type of code. They are the links in flexible crystal chains that are compressed and folded into chromosomes.

Encoding in the Pattern cell context is the process of forming and framing the elements needed for earthly life. Life's elements, which include DNA codons, are packaged as an egg or seed for transmission purposes. Decoding is the process of expressing or generating that which had been encoded in the egg or seed.



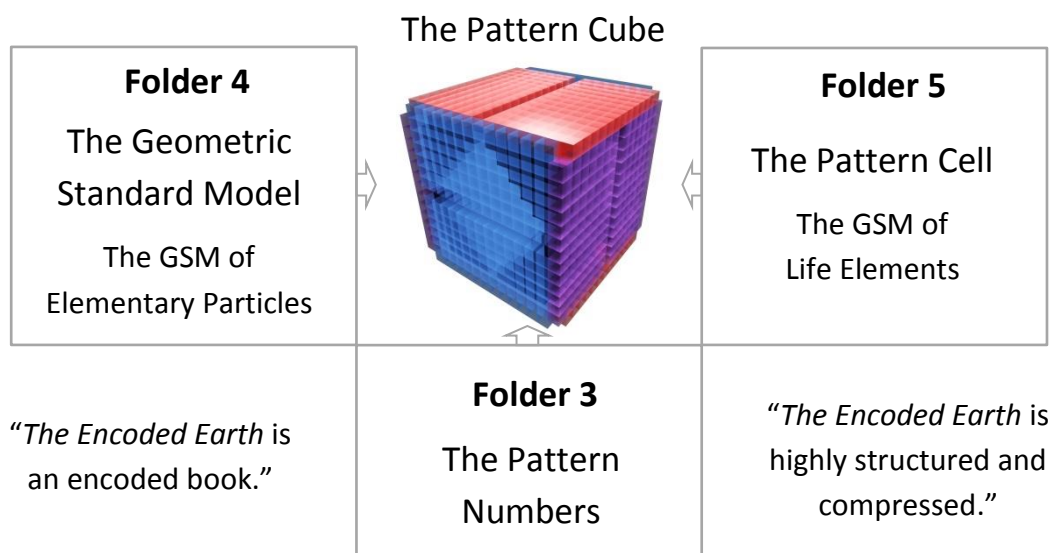
The main difference between the body example and the earth example above is that the generation of the (new) earth is deeply fragmented. Only certain life-forms of the original living earth could be expressed from their sub-seeds in the earth seed. (The earth seed is a composite seed consisting of different types of sub-seeds according to their original types of organisms.)

The Encoded Earth was published in thepatternbook.com on 18 April 2019.

The Encoded Book

The Encoded Earth is the culmination of the study of the Pattern. It builds upon many items written to illustrate and explain the Pattern concept. Most of these have been published in thepatternbook.com.

The Encoded Earth book comprises three folders: Folder 3, Folder 4 and Folder 5. The origin and structure of the Pattern Cube model is described by the Pattern pieces in Folder 3. Folder 4 describes the matching of the model with the Standard Model of Elementary Particles and Folder 5 describes the matching of the model with the elementary component types of a living cell.



Folder 3, *The Pattern Numbers*, provides the mathematical-structural representation of the Pattern. It details the Pattern code that is derived from the Pattern Cluster, and it also shows how Pattern numbers are used to build structures, in particular the intricate Pattern Cube edifice.

Folder 4, *The Geometric Standard Model (GSM)*, describes the Pattern architecture of the Standard Model (GSM) of Elementary Particles. The Standard Model has been under development for more than 50 years, but it still does not have the single unifying symmetry that scientists want. The GSM proposal gives the Standard Model a single architecture that accommodates all seventeen elementary particles, including the Higgs boson. The chemical elements fit inside the three Light-cones of the Cube, one for electrons, one for muons and one for taus. Symmetry breaking, which causes mass in particles, is also explained in Folder 4. Quantum gravity is shown to be an innate property of the GSM.

Folder 5, *The Pattern Cell*, could be called 'The GSM of Life Elements' because it suggests an architecture (the same as GSM) for life's elements. It, therefore, harmonizes the inorganic with the organic.

The Coded Seed

According to the encoded earth hypothesis, the staged collapse of the original earth caused the earth seed which is our planet. *The Pattern Cell* argues theoretically that the genetic code could have emanated (crystallized) during this staged collapse of the original higher-dimensional earth.

Each folder of *The Encoded Earth* book consists of twelve one-page Pattern pieces, each describing a different facet of the Pattern. The book has 42 pages ($12 + 12 + 12 + 6 = 42$). Each piece has a title and heading which includes the context, date and a number. Links to other pieces are provided in the text.

Folder 3, Folder 4 and Folder 5 have been published and can be downloaded from thepatternbook.com.

The Pattern Numbers

Folder 3, *The Pattern Numbers*, explains the mathematical basis of Pattern. It shows the Pattern code that is derived from the Pattern Cluster, and it also shows how Pattern numbers relate to Pattern structures, especially intermediate structures in the development of the Pattern Cube. The construction of the Pattern Cube is explained in detail.

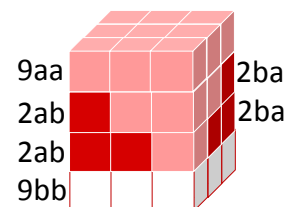
Pattern number 3 is shown below to illustrate the intimate relationship between Pattern numbers and structure.

Number	Number Values	Structure
$3 + 0 = 3$	3,0	
$2 + 1 = 3$	2,1	
$1 + 2 = 3$	1,2	
$0 + 3 = 3$	0,3	

The generalized form of Pattern numbers is $pn(a + b)$. The squared Pattern number, $pn(a + b)^2$, equals $aa + ab + ba + bb$. The values of the terms are shown below. The resulting block structure is on the right.

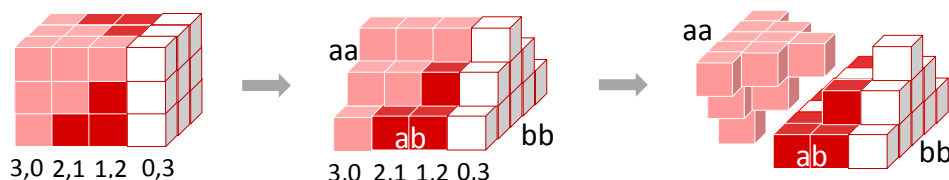
Values:

3,0:	$3 \times 3 + 3 \times 0 + 0 \times 3 + 0 \times 0 = 9aa + 0ab + 0ba + 0bb$
2,1:	$2 \times 2 + 2 \times 1 + 1 \times 2 + 1 \times 1 = 4aa + 2ab + 2ba + 1bb$
1,2:	$1 \times 1 + 1 \times 2 + 2 \times 1 + 2 \times 2 = 1aa + 2ab + 2ba + 4bb$
0,3:	$0 \times 0 + 0 \times 3 + 3 \times 0 + 3 \times 3 = 0aa + 0ab + 0ba + 9bb$

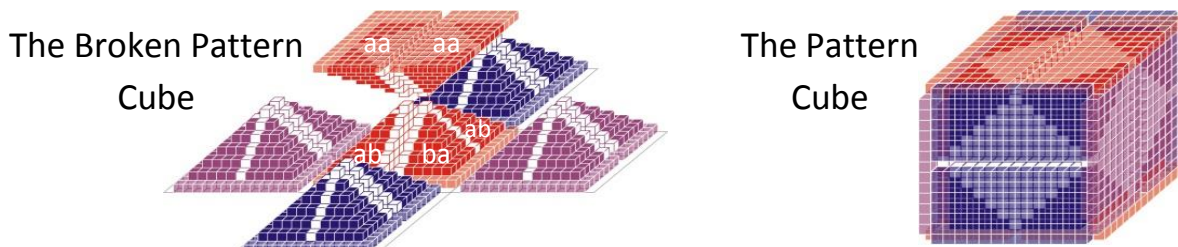


The transformation of the block structure into a pyramid structure is shown below. Note that the block is rotated to facilitate the sequencing of the three drawings. (The aa-module, when compressed into a slab, could form only half of the base for the pyramid [14 cubes available vs 28 cubes required].)

Transformation of a module into one half of a cleft step pyramid



The terms, values and transformation of Pattern number 6 are also explained in Folder 3. The Pattern Cube which is the structure of the cubed Pattern number 6 pair is shown below.

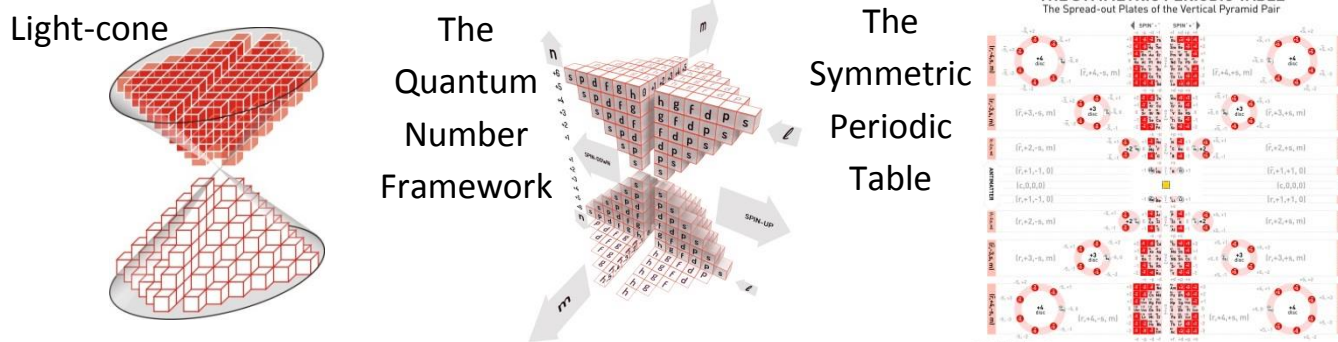


The Pattern Cube is shown in both its broken state and in its unbroken state. The three pyramid pairs are visible in the broken state (only the red pair is left intact). The ab/ba-modules (of the pyramids) fit inside the eight vertices of the (unbroken) Pattern Cube to form four Life-cones (see PB:5). The remaining bb-modules of the pyramids form the three Light-cones of the Pattern Cube (see PB:4). Each Light-cone is a different colour. The twelve (compressed) aa-modules constitute the cover of the Pattern Cube.

The Geometric Standard Model

Folder 4, *The Geometric Standard Model (GSM)*, describes the architecture of the Standard Model of Elementary Particles. The GSM hypothesis is based on the Pattern Cube that consists of three Light-cones and four Life-cones.

The three Light-cones of the Pattern Cube form a chemical element framework, one cube (Pattern state) for each element. The Light-cones represent the three Symmetric Periodic Tables (SPTs) of chemical elements. The electron based SPT of the red Light-cone is shown below. (The other two SPTs are for the muons and taus.)



Puzzle Pieces

The Standard Model has 17 types of particles, twelve fermions and five bosons (including the Higgs boson). The types of particles are, just as in 3D puzzle pieces, the modules that build the Pattern Cube.

Symmetry Breaking

The spontaneous symmetry breaking (with the Mexican hat potential) that happened in some distant past could have been the cause of our universe with massive particles. Before symmetry breaking the universe would have been massless (consisting of light only). According to the encoded earth hypothesis this was like the state of the original duonity earth before the staged collapse (see PB:5). Symmetry breaking could, therefore, be analogous to the staged collapse process which formed the earth seed.

(Idea: The symmetry breaking and/or the staged collapse of the original earth could have crystallized the Light-cones with their chemical elements. The naturally existing elements occupy only 94 of the 364 available states (small cubes) of each Light-cone. The large mass of the remaining 270 elements could have caused them to form black holes. These primordial black holes then perhaps became the dark matter in galaxies for which scientists are looking.)

Quantum Gravity

The Pattern Cube model could represent the total balanced gravity field composed of individual quantum gravity modules. The Pattern Cube and its core are self-similar and the core could, therefore, represent a gravity boson. The gravity boson would be similar to the Higgs boson of the GSM.

The Universal Pattern Framework

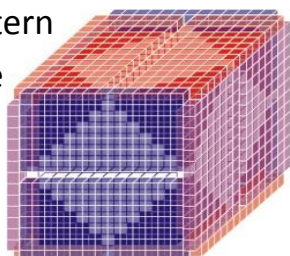
The perfect manner in which the GSM schema makes provision for all types of particles of the Standard Model is an indication of the high probability that the Pattern Cube could be the framework match for the Standard Model's elementary particles.

The GSM could play an important role in creating new theories about the origin of the universe, theories with fewer initial dimensions.

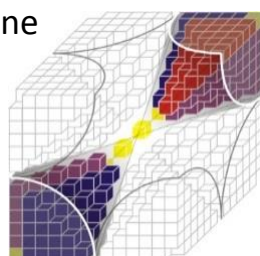
The Pattern Cell

Folder 3, *The Pattern Cell*, builds upon the GSM (see Folder 4) to complete the two main Pattern matches. The focus of the *GSM* is more on the chemical elements as represented by the Light-cones of the Pattern Cube while the focus of *The Pattern Cell* is more on the coding structures as represented by the Life-cones. The four Life-cones form an X-shaped framework that accommodates the codons of the genetic code.

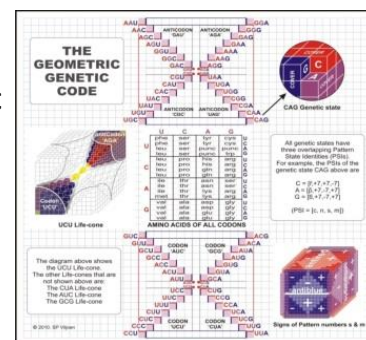
The Pattern
Cube



Life-cone



The
Geometric
Genetic
Code



Cell Component Types

The components of a living cell are compared to, and also matched with, the Pattern cell's components.

Core: The DNA inside the nucleus acts as a kind of adaptive record of the genetic material of the cell.

Content: The RNA proteins in organelles and other structures in the cytoplasm of a cell are the working units that enable the cell to function and to divide to specialize (mitosis) and pro-create (meiosis).

Cover: The cell membrane acts as the communication interface that also channels the materials needed by the cell and the waste generated by the cell. Epigenetics has revealed a dynamic relationship between the cell's environment and gene expression.

Hox Genes

A single cell is able to direct the execution of complete body plans by means of its Hox type genes. How a single cell could know the design of the whole body, consisting of millions of cells, and how it is able to conduct its development to yield a mature body had been a big puzzle thus far. The body-seed analogy of the encoded earth hypothesis is the logical explanation for such extra-ordinary capabilities of a cell.

Duonity

Duonity, which is a higher-dimensional two-oneness of things, is a term that could be used to describe the properties of the original earth cell. The collapse of duonity into disduonity probably caused the cell's segmentation, or crystallization. The duonity of the Pattern cell could be used to explain quantum phenomena, such as entanglement and superposition. A living cell could therefore be a quantum cell.

The Coded Collapse

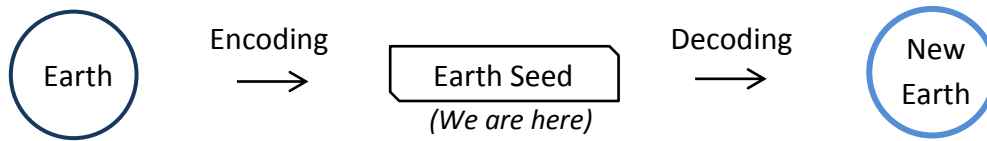
According to the encoded earth hypothesis, the codons of the genetic code emanated during the staged collapse of the original living earth cell. The codons are encoded at each vertex of each segmented (concentric) cube that crystallized during the staged collapse of the Pattern Cube.

(Crystallization is a process that causes substances, such as atoms and molecules, to arrange in regular structures. One example of this kind of process is a salt solution that crystallizes into a cubic salt crystal.)

The unique X-type geometry of the geometric genetic code could be construed as providing evidence (a record) of the staged collapse of the original creation. The idea could be compared to archaeogenetics where mutations in successive genome generations are used for the reconstruction of human history.

The Decoded Earth

The process of the encoding of the original earth into a seed and the decoding of the seed into a new earth:



The earth seed is our current home. It contains (it had been encoded with) all that is needed for life; for all the types of life that exist in the seed.

The decoding (generation) of the earth seed into a natural new earth is not possible; it is not possible because the seed is decomposing. Original bodies in the original earth that encoded into some of the earth's sub-seeds are, however, able to decode, though only temporarily, into new natural bodies.

Science cannot determine (decode) the origin of the encoded seed from within the seed. The following quotation is from *Fire in the Mind. Science, Faith and the Search for Order* by George Johnson, p316, published by Viking in 1996. *"We are part of the very universe we are trying to understand. We are trapped inside the system. There is no Archimedean point on which to stand and behold all of creation."*

The study of the seed's internal structures and properties cannot reveal its true origin. That is the dilemma of science.

The conditions inside the earth seed points to possible cataclysmic events that caused the encoding (formation) of the earth seed. These conditions include the fact that certain elementary particles of the Standard Model gained mass owing to symmetry breaking, the crystallization of chemicals and codes owing in turn to the staged collapse of the original duonity earth and the continually increasing disduonity (entropy) of the earth seed. These prevailing conditions in the earth seed complicate and confuse all efforts by science to discover the seed's true origin.

The Hox genes of living cells could perhaps be a source of information about the original earthly bodies. This is because of the ability of a single cell to conduct the development of a whole body by means of its Hox type genes. The ancient Hox type of genes in a cell can pattern whole bodies, perhaps because they were encoded by life-forms (bodies) that existed before the staged collapse of the original earth.

Decoding the earth seed to know its origin requires help, particularly from outside the seed. According to *The Encoded Earth* this help came in the form of the Pattern, a blueprint and model of the original duonity earth, from its Architect and Maker.

Unified Science

The Encoded Earth establishes a new paradigm of integration in scientific endeavor, namely the integration of the life sciences, the physical sciences and the cosmological sciences.

*The endless study of fossils, DNA and galaxies cannot ever reveal the origin of life or of the cosmos:
Only something like the transcendent Pattern can help science in its quest to answer the question,
'What is Life?'*

The Pattern perspective on the world in which we live, and on the expanse that we are privileged to behold at night, is so revolutionary, but at the same time so obvious, that we can only say, each to the other, *'Oh, how could it have been otherwise! How could we all have been so blind for so long!'*