



Making it \_\_\_\_\_

# Azimuth

A tiny solar system \_\_\_\_\_

## Inspirations

Chinese Ivory Miniatures

The Koran written on a grain of rice

Celestial Atlases

Armillary Spheres

Random link and node diagram

Using the yed graph editor I made 5  
"suns" and a number of "planets", linked  
up in such a way that some of the suns  
also became the planets of other suns.  
Then I used the "randomness" feature of  
the editor to create many different  
distributions.

The objective is to make something that goes against the log  
measurement due to the fact that it is very small, when the  
expectation is that it should actually be very big.

And something that moves in a manner that is contrary to our  
assumptions.

At the center sits a solar system that is small enough to hold  
the tip of your virtual finger. Too small to see with your bare  
virtual eyes. And, as importantly, something that defies the 1  
of centrality - an "absurd" system in which the planets link to  
suns in decentralized formations.



ness roams freely throughout the Aleph, a virtual recreation of the whole universe

eon.html

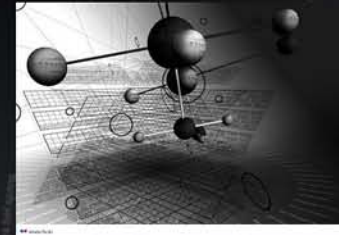
Cyberpunk/William Gibson

At the end of the story, Bobby unites his lover Angela into the aleph as well and they both die physically as they transform themselves into data energy within the aleph which is said to contain worlds. Aleph is the first letter of the Hebrew alphabet, historically it signifies creation as that first of all god created the word aleph being the first letter in the alphabet, symbolically the essence of the word.

everything at once

Cabbalah

Moreover, aleph is also connected to the Jewish myth of the golem. A golem is a clay being given life through Kabalistic rituals, by writing the name of the creature on its forehead - the first letter of this name being aleph - and the secret name of god on a piece of paper to be put into its mouth, the rabbi can breathe life into the mouth of his creation and it shall live. However, the golem can also be destroyed by erasing the aleph from its name which is Hebrew for truth. When the aleph is removed the name means 'he is dead'.



Transforming it

### The 'Enigma' Psalms Cipher

Edward Elgar Op. 36  
Revisions by William W. Fisher

Cipher = Zero = Aleph?

an 'unplayed' theme = Zero?

Phylogenetic diagram

A phylogenetic tree or evolutionary tree is a branching diagram or "tree" showing the inferred evolutionary relationships among various biological species or other entities based upon similarities and differences in their physical and/or genetic characteristics. The trees joined together in the tree are thought to have descended from a common ancestor.

The Enigma I will not explain - its 'dark saying' must be left unguessed, and I warn you that the connection between the Variations and the Theme is often of the slightest texture: further through and over the whole see another and larger theme 'goes', but is not played... So the principal Theme never appears, even as in some late dramas... the chief character is never on the stage.  
—Edward Elgar

### Elgar's Enigma Variations

Numerology is any study of the purported divine, mystical or other special relationship between a number and some coinciding observed (or perceived) events. It has many systems and traditions and beliefs. Numerology and numerological divination were popular among early mathematicians, such as Pythagoras, but are no longer considered part of mathematics and are regarded as pseudomathematics or pseudoscience by modern scientists.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
CIPHER NUMBER	03	02	08	09	08	05	02	09	04	08	04	05	05	09	06	05	01	03	09	08	05	04	05	05	06	05	05
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CODE NUMBER																											
PLAIN CHARACTER																											
CIPHER NUMBER	07	04	04	04	00	00	04	04	07	07	08	04	05	02	09	07	01	05	02	02	00	00	00	04	04	04	03
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—Jack Good

Enigma

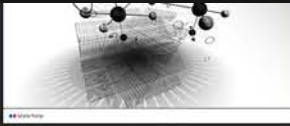
Numerology

Pythagoras

The roots of numerology go all the way back to the Pythagoreans and their secret, religious society. Pythagoras was profoundly influenced by the fact that certain number ratios of string lengths produced sounds that are in harmony. From this he concluded that the harmonies were produced by the numbers themselves.



201 =



Reading about *The Aleph* took me to places where a solar system (no matter how pretty) had nothing more to offer. This is not yet completed. In fact, this is likely to become a perpetually unfinished thing.

**It is unplanned, fragmented, assymetrical, and imperfect.**

It is made up of things that I do not exactly understand myself, although I know that some of them are reproductions of code diagrams that Turing generated during the Enigma project. Another one is a circular phylogenetic tree which I used as a floor. I do not know if any relationships can be set up between these outside of the typographic ones that made them come together quite easily when I put them together.

What used to be understandable is now an enigma to me. It is a Cypher, an encrypted something but I do not know what that something is, which may in fact be my personal definition of *The Aleph*.

# Cypher

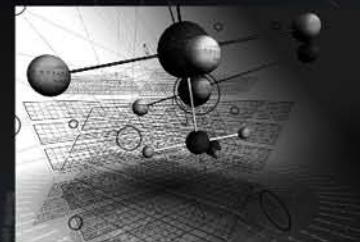
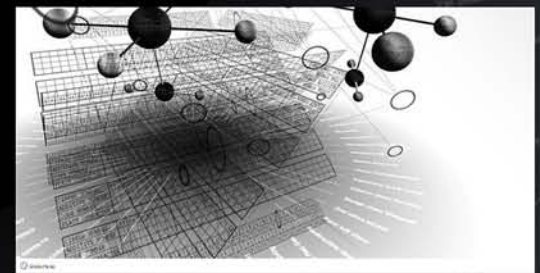
Enigma \_\_\_\_\_

Complex \_\_\_\_\_

Hermetic \_\_\_\_\_

De-centralized \_\_\_\_\_

A 'non-entity' \_\_\_\_\_



mounts of data, a neuralgic centre in consciousness, or a  
tagonists, Bobby Newmark, enters the novel *"Mona Lisa  
black box is attached to his head. The box is later revealed to  
sole virtual universe wired directly into Bobby's nervous  
out the Aleph, a virtual recreation of the whole universe.*

cyberpunk/William Gibson \_\_\_\_\_

At the end of the story, Bobby brings his love Angie into the aleph  
well and they both die physically as they transform themselves  
into data energy within the aleph which is said to contain worlds  
Aleph is the first letter of the Hebrew alphabet. Historically it  
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word.

Abbalah \_\_\_\_\_

Moreover, aleph is also connected to the  
Jewish myth of the golem. A golem is a clay

... A man sets out to draw the world. As the years go by, he populates a space with images of provinces, kingdoms, mountains, bays, ships, islands, fluted rooms, instruments, stars, horses, and individuals. A short time before he dies, he discovers that the patient labyrinth of lines trace the lineaments of his own face.

**"The Aleph"**

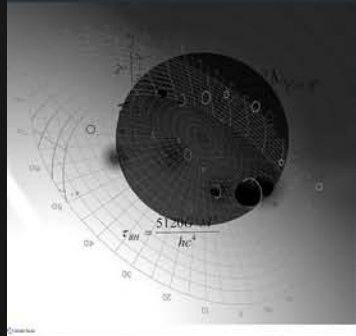
So small that you can see everything at once.

Cyberpunk/William Gibson

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**Cabbalah**

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**Numerology**

**Pythagoras**

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However, the practitioners of numerology took this idea one step further with the belief that the use of appropriate numbers produces a kind of generalized harmony in nature. This harmony is not restricted to the harmony of tones and their effects upon our ears but extends to objects working or fitting together well.

**Numerology/Code?**

**Renaissance literature**

**Ciphers of the Monks**



**Transforming it**

**The 'Enigma' Psalm Cipher**

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**The Cipher**

In cryptography, a cipher is an algorithm for performing encryption or decryption—a series of well-defined steps that can be followed as a procedure.

In non-technical usage, a cipher is the same thing as a 'code'; however, the concepts are distinct in cryptography. Codes generally substitute different lengths of character strings from input to output, whilst ciphers generally substitute the same number of characters from input to output.

The last word in The Tempest is the word FREE. The