

A Little Bit of God

And a bit of Science

Man and God

God Created man in his image:

“in the divine image he created him;
male and female he created them” Genesis 1.27

Those who understand the above statement are capable of writing volumes
about God

The Nature

- We use term "Nature" when referring to things observable to us through our bodily senses
 - However, all this physical reality, together with our own bodies, have been created by God through some prior intervention, therefore they are not natural by their own
 - Thus "the Nature" which surely comes from the word "natural", and which has been brought to being through external divine intervention is in her very essence "artificial"
 - We still use the word "nature" to refer to her even though this is an artificially created state of being
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God

- God is the Spirit who fills with his presence all space and time
 - God has no beginning and no end – and as such is the most natural being within the reality
 - However, because our physical senses are bound to the physical part of reality, we find the presence of God as extraordinary
 - Those among us who have had experience of sensual perception of God become confused as to which one of those realities is in fact natural and which one is artificial
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Creation

- ❑ Some say that all creation is a reflection of particular aspect of God's own nature
 - ❑ Others insist that only parts of creation represent the realm of God's nature
 - ❑ The first group insists that this is our limited knowledge of God and of physical reality that makes us think of creation as representing God only in part
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Divine Nature Representations

- There are endless examples of God's nature represented in physical reality:
 - Many people concentrate their attention on the beauty of creation, especially in the botanical realm
 - Some would observe underlying logic of processes seen in physical world as a clear manifestation of the logic present in the Creator. These yield powerful arguments based on assumption that if we see logic in any physical process then the process must have been created by a logically thinking creator
 - Also, there are processes in the physical world, that may be directly compared with the states of mind present in the Divinity. These constitute representations of the nature of Divinity, even if seen as simple models. (We tend to create models to explain complex processes. By the same token God may have created our laws of physics as a model representing some aspects of his very nature)
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Forces in Divinity and Nature

- As we study our physical realm we learn about forces governing the interactions within
 - These forces may be seen as a model representing Spiritual forces present within Divinity
 - As a human being is created in the image of the creator we should be able to identify the same forces within the humanity
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Forces in Physical World

- There are four forces within the physical reality. These are called:
 - Gravity – responsible for attractions of heavy objects
 - Electro-Magnetic – responsible for electric and magnetic interactions
 - Nuclear (or Strong Forces) – responsible for holding nucleus of an atom as persistent entity
 - Weak Forces – responsible for preservation of some heavy elementary particles (like for example neutron)

Forces within Divinity

- ❑ Solidarity – responsible for desire to form communities and associations
 - ❑ Humility – responsible for desire to learn and acceptance of personal need for growth
 - ❑ Status – responsible for creation of vertical social strata
 - ❑ Offering – responsible for desire to support weaker members of the society at our personal cost
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The Gravity

- Most objects around us have intrinsic mass. That means when placed on a scale they would register as having certain weight. Even though weight is a concept known to ancient people it has been relatively recently associated with the pulling force that the Earth exerts on any given object. This force is labeled as gravity. What it means is that any two heavy objects attract each other with a certain force
- When a number of objects is allowed to float in space they gravitationally attract each other and rotate around a common centre of mass

Solidarity

- ❑ One can say that people tend to gravitate towards each other and form some sort of associations
 - ❑ In many cases a common interest or issue of importance would make their minds to move around a topic, centre of interest, commonly perceived problem etc.
 - ❑ This force present in human minds may be seen as mirroring a force present in Divinity's mind and modeled in the physical world through the means of gravity
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The Elector-Magnetic Forces

- There are only two forces in physical reality that we encounter on daily basis. The gravity when walking or dropping object on the ground, and the electro-magnetic forces which are responsible for all other actions.
 - Taste, sight and other senses, pressure when squeezing something, growth of plants, burning of fuels, the list is endless. All of these are governed by electromagnetic forces
 - This is because matter consist of particles charged with electric charges. When we pull a rope the charges within the fiber become separated somewhat and in this way transport the pulling force along the length of the rope to the object on the other end
 - One may safely say that the electromagnetic forces are responsible for transportation of any action to the desired objective
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The Force of Humility

- This is the force responsible for most of human interactions
 - When two persons gather and discuss something they pull and push on each other's views by the means of information exchange. This is what happens when two electrically charged objects interact. They pull and push on each other and exchange photons (light).
 - People exchange information all the time. Being it small tidbits of common news or great announcements on television
 - One person subjects oneself to the others when receiving the information (light) and accepts it or rejects it (the electromagnetic force may be attracting or repulsive). This is why it is called the force of humility
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The Strong or Nuclear Forces

- On microscopic level objects consist of atoms
 - Each atom consists of nucleus and electrons moving around it
 - The nucleus by itself consists of heavy particles called protons and neutrons
 - When very close together these attract each other allowing them to form the nucleus. This force is called “the strong force” due to the fact that it is very substantial (but acts on very short distance only)
 - Protons, which have positive electrical charge, repel each other electrostatically. They need to be pushed very closely together before the strong force overcomes the electrostatic repulsion and binds them together to form a nucleus
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The Force of Status

- When societies are very close together they tend to generate individuals with high social status
 - There is a force within people that manifests herself in this manner even though the information exchange would try to prevent it
 - A tribe would say: "Give us a king" (1 Samuel 8:5), so to establish vertical social strata. At the same time they must have been under extreme external pressure to do so (This is obvious from 1 Samuel 8:5)
 - Even though the notion of one person being better than another is extremely challengeable from the point of view of the force of humility (electromagnetism trying to prevent nuclear forces) under certain circumstances the force of status prevails over humility, forming vertical social strata
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Weak Forces

- A nucleon of an atom consists of two types of particles: protons and neutrons. Protons have positive electric charge, neutron has no electric charge and is slightly heavier
 - When a nucleon is very heavy (consisting of large number of above particles) it may on occasion eject one of the neutrons (this process is called 'natural radioactivity')
 - The freed neutron remains unchanged for about 15 minutes and then decays to a proton, electron and neutrino
 - The force that holds neutron together until the time of decay is called "the weak force". One may also say that this is the force responsible for the decay of the neutron
 - The name comes from the fact that the 15 minutes of life of a free neutron is considered in nuclear physics as being very long. That means that the energy of binding is very low (small force)
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The Force of Offering

- An advanced society with well established vertical social strata may contain people who having amassed large financial resources feel under pressure to give back some of those resources back to the society.
 - They would donate some of those resources to some cause
 - The evidence of such mental pressure, to give something back to the society as a form of donation, is a manifestation of the force present in the human mind and in turn in the mind of the Divinity
 - The force of offering manifests itself through the existence of social support groups, social welfare, helping groups or others acting in such manner
 - As a result a society that is labeled as being socialistic would be represented in nature as some heavily radioactive substance. It donates a lot of its energy back to its own substance in order to support weaker element of its structure
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Star/Nation in Making

- The following is a simplistic example of processes present in physical world that may be seen as illustrating the forces present within the mind of Divinity (and therefore in general human population)
- Without getting into any details and treating the subject in the most general terms, the stages of star evolution are going to be compared to the steps leading to the birth and evolution of a nation

A Gas Cloud

- ❑ Scientists are very interested in the first few seconds of Universe creation. However, for the sake of our example we may start at much later time
 - ❑ After minutes or hours following the original matter creation the state of the universe is expected to be of expanding space, filled with hydrogen gas
 - ❑ This is because the hydrogen gas consists of two simplest particles joined together, namely protons and electrons
 - ❑ As the space expanded the hydrogen gas which was loosely distributed within the space would interact through the only one apparent force. This is the gravity
 - ❑ This force is very weak and it takes long time for the force to manifest her effects, which is gathering of the gas into enormous clouds
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Human Gas Cloud

- If we wanted to find an analogous state within human society we would need to think of some collection of people who lived tens of thousands of years ago, or to look at extremely primitive societies, which live in scarcely populated areas of the planet
 - What we would need to assume is that those people did not form any advanced social structures
 - Even so, they would tend to gather together manifesting the dislike of hermit like life and showing the social dimension of human psyche (gravity)
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A Slightly Compressed Gas

- When the hydrogen gas becomes compressed within the cloud (due to the gravitational attraction), it releases some energy due to particle to particle interactions.
- We would say that the temperature of the gas increases (kinetic energy), and there is some electromagnetic energy released due to particle to particle collisions (thus heat and light are generated and released by the gas)

Information exchange

- A loose collection of people who gather due to the social attraction would create and exchange information
 - The language would become more advanced, allowing for development of lettering/writing and some basic discoveries would be made
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High Pressure Gas

- The next evolutionary step in the star development is the nuclear fusion
 - This occurs when the gas is gravitationally stressed to such an extent that the electrostatic repulsions among protons are overcome by gravitationally induced pressure
 - We would say that the gas so compressed constitutes overheated plasma, which undergoes qualitative change giving rise to heavier nuclei (strong forces)
 - This is when a star is born. It begins its shining activity through the process of fusion nuclear burning
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Social Vertical Structure

- A society which feels strongly connected through common identification would generate vertical social structure
 - Some members of the group would be identified as more valuable, even though it is at expense of others
 - At this stage we would say that a primitive nation has been formed
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A Mature Star

- A young star burns hydrogen in the fusion process creating helium
- However, the plasma and the fusion process would create still heavier nuclei with time, until it creates nuclei that decay through fission
- An aging star would contain substantial proportion of those elements allowing for both processes to exist concurrently
- Thus an aging star displays all four processes at the same time:
 - It is gravitationally compressed
 - It interacts electromagnetically within its body
 - It burns hydrogen in the fusion process
 - It decays heavy nuclei in the fission process

Advanced Social Structure

- A nation which is advanced in development contains large group of influential people who are capable and willing to extend their support to those who are less fortunate
- This is analogous to the fission process observed among heavy elements
- Thus a highly developed nation displays the following attributes
 - It is socially connected
 - It exchanges information
 - It has vertical social structure
 - It contains social support services

Read more about it

- ❑ If you are interested in the approach discussed above
 - ❑ Or you would like to learn more about other related issues
 - ❑ You may find more information in the book by:
Rivka Schlagbaum and Moshe Szweizer
"The Spiritual Law"
 - ❑ The book may be obtained from:
<http://books.lulu.com/content/110555>
 - ❑ ISBN 1-4116-2566-8
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