

Consciousness measure

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Abstract

Consciousness discussions lack a clear definition that would suggest a measure. The Scalar Theory of Everything (STOE) is a more fundamental model than the standard models of cosmology and quantum mechanics. The STOE holds time exists only “now”. The steaming “now” forms a structure that suggests the ability to accurately remember and to act on that memory is a measure of consciousness. Inertia is a property of the plenum. Inertia of bodies is also a form of consciousness. Therefore, rocks are conscious and consciousness is fundamental in the universe. A broad scope of consciousness is more complex. Consciousness has emerged from animals to complex human societies through oral and written media. Greater consciousness aids survival. Consciousness can be reduced because of a changing environment or because of inappropriate experience lessons of the environment. The natures of time, causation, and consciousness are really only one topic deriving from our brains instinctive interpretation of the universe.

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1 Introduction

The Scalar Theory of Everything (STOE) is a more fundamental model than the standard models of cosmology and quantum mechanics. It corresponds to both; it explains many problem observations; it is a causative, Machian

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model with only 3 space dimensions; and it has made successful predictions years before the data became known [Hodge 2020].

Only the position and velocity of hods (bodies) relative to other hods and the plenum density ρ variation with distance exists. The STOE posits inertia is a property of the plenum that is a fundamental constituent of the universe. Each body consists of hods and a fixed amount of plenum captured by each hod. The $\vec{\nabla}\rho$ causes a force on the hods which then change distance relationships (move).

Our view of the basic functioning of the universe is based on our daily experiences Hodge [2021].

If we humans are to survive, humanity has linked an ability to predict future events and conditions to our survival [Hodge 2012]. Therefore, physics should include causation in our models [Hodge 2021; Garrett 2009].

This paper suggests a model of consciousness with a common base to time and causation. Thus, a measure of consciousness is the accuracy and extent of our memory. Section 2 discusses the model of consciousness. Section 3 suggests rocks have an elementary form of consciousness. Section 4 applies the consciousness model to society. The discussion and conclusion are in Section 5.

2 The model

Consciousness in humans is a vague term given to our brain's action that influences our actions. Also, consciousness is vaguely linked to enhancing our survival. Hodge [2022] suggested the universe exists now and only now (the NOW). That is, there is no time dimension. In each NOW, each hod and the ρ in our brain are related. Part of the relationship will remain in the streaming NOW. This is our memory. Memory is a reconstruction in the current state of NOW. Other parts of our brain access the memory and use the established links to form our actions. The more accurate and the more extensive our memories cause us to survive longer. Our consideration of human or animal consciousness is limited by our knowledge of how brains work.

A fundamental instinct of our brains is to ascribe a flow of time to the streaming NOW. This same instinct ascribes causation from one NOW to the next. This is done by correlating the passage of events, such as the ticking of a clock or motion of heavenly bodies, and using our memory. Whether time

and causation exists are other philosophical discussions.

However, observations may also cause inaccurate or false memory links. Also, the memory links may change. The more dangerous false memory is one that suggests survival safety where a threat exists. Also dangerous is a false memory that is a distortion that causes resources to be committed to unproductive (infertile) projects. A more passive false memory is one that is irrelevant to survival, but allows outside forces to compete and kill [Hodge 2012].

In lower forms of animal and plants, the “memory” is inherited - called instinct. More accurate in relation to an environment and longer memory emerges by learned experience. The learned experience can be taught by a long childhood. It may also be taught by oral or written instruction such as in humans.

In all the forms of memory acquisition, the accuracy of the memory is paramount in allowing survival. For example, if an environment changes, the instinct memory may become inaccurate. Because the natural environment changes, the more rapid the adjustment ability allows for greater survival. By the same analysis, the learning of inappropriate memory relative to the natural environment will endanger survival.

3 Rocks

The existence of consciousness today implies it emerged from a fundamental characteristic of the universe. Each body exists in an environment limited by what it can sense. Rocks can react (sense) the gradient of the plenum exerted on them and their inertia.

Consider 2 bodies of equal mass, say rocks, released from two different heights, say 4 meters and 2 meters. Their conditions at 1 meter above the floor are not the same. Their velocities (inertia) are different. The force of gravity on each is the same. The inertia is the result of past forces on bodies. Inertia is the memory of bodies.

Because inertia is a property of the plenum that is a fundamental constituent of the universe, consciousness is fundamental that emerges with increasing complexity.

4 Society

A society is a collection of individuals each with a survival capacity and motive. Internal to a society, cooperation and harmony among the individuals allows greater survival. But relations external to a society may involve war. As experienced in modern larger groups, individuals have learned the methods to “get along”. These methods have no place in external war where killing is required. History teaches the passivity of a society to war results in destruction. Winning war while surviving is the fundamental problem of forming modern human societies [Hodge 2014]. Avoiding war is not an option.

A human society forms a memory through instinct, parental guidance, oral communication, and written communication. An individual can survive as an individual and as a member of a society. An individual in nature must be conscious of natural rules and balance the competitive actions with Justice and Mercy [Hodge 2012, as defined in]. A society must also balance the Nurturing and Protecting requirements. But the individual in a society need only obey the society’s laws. These laws may or may not be conscious of nature’s rules. That societies are created and grow for a short time suggests the growing society is conscious of nature’s rules for a time. That human society does not survive for very long suggests human laws loose consciousness of nature’s rules.

Writing is a form of memory whereby humans and their society can enlarge their experiences beyond one generation [Gray 2002, p.56]. But writing has also allowed humans to reinvent the world into abstract and absurd [Gray 2023, p.16] entities that no longer belong in the natural world. This greatly reduces the accuracy of consciousness. This imperils the society and all its members through inappropriate laws and a demand for Faith from the leaders [Hodge 2012, as defined in].

The quest for Limited Resources [Hodge 2012, as defined in] will restrict population size. Greater consciousness in society should act to increase the survival of the society and its members.

5 Discussion and Conclusion

Our science describes time as a continuous process with a past and future and with dimension such as space-time. This creates problems such as the arrow-

of-time. Yet, the fundamental of causation of events is ignored with equations with time symmetry and mysteries surrounding the Machian concept of the origin of inertia.

The natures of time, causation, and consciousness have remained different metaphysical discussions. The natures of time, causation, and consciousness are really only one topic deriving from our brains instinctive interpretation of the universe.

The advance of technology and the impending Artificial Intelligence appears to leave abundant “free time” for humans to become bored or a become a “free-rider”. Computers are not a higher consciousness because they don’t act contrary to their programming. The problem of societies to manage common (indeed, all) resources without waste and to contribute to a society’s survival is long-standing and unsolved [Ostrom 1990]. The quest for understanding in science and religion may be the new pastime as a way to relieve the boredom in societies.

But this often results in questioning of established memory/consciousness. This too can, and often does, become absurd and wasteful [Gray 2023, p. 16]. Because human organizations tend to inhibit Change [Hodge 2012, as defined in], new advances in consciousness are often ignored and consciousness decreases. The result is that Nature’s rules impose violent revolutions.

The leviathan ruling humanity is currently Mother Nature. A nation’s and a people’s consciousness of the rules of nature determine the rise of decline of the nation. Unfortunately for humanity, internal security allows parental guidance to become parental overprotection that reduces the consciousness about the leviathan. Compare the actions of today’s “advanced societies” with the Serengeti rules [Carroll 2016]. Hodge [2014] suggests the top organization with military power adopt the role of leviathan (nature) relative to the states.

The STOE holds time exists only “now”. The steaming “now” forms a structure that suggests the ability to accurately remember and to act on that memory is a measure of consciousness. Inertia is a property of the plenum. Inertia of bodies is also a form of consciousness. Therefore, rocks are conscious and consciousness is fundamental in the universe. A broad scope of consciousness is more complex. Consciousness has emerged from animals to complex human societies through oral and written media. Greater consciousness aids survival. Consciousness can be reduced because of a changing environment or because of inappropriate experience lessons of the environment. The natures of time, causation, and consciousness are really only one

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