Oakland Community College

From Dialectic to Black Hole,

The Definition of Time in Plato’s View

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In respect to logic and the rational realm of human beings, as for the external experience, the objective of any physical existences is sought to be valid only under a broad understanding of space. Of which, the understanding of space must have been a validated premise. However, as the property of space is a derivation of physical objects, it is logically to be considered belonging to the external realm which the opposite is the mind as a property of internal realm. Subsequently, for all physical objects to be proven true, a relative understanding of space ought to be sought consistently. In general perception, space is an existence where an object is located in. However, space is not empirically formed if it is valued only upon geometric observation because an object don’t exist without at least one parameter1. Furthermore, assuming one object does exist without external relatives, it can only be perceived to be true in respect to its inner properties. Thus, the object will possess all possible shapes or no physical shape2. Of which, space is then to be considered a phenomena or rational understandings of certain interconnected mechanism in between at least two physical objects in respect to its external property as a premise. Therefore, if human do perceive space as a concrete existence, all objects can be measured as well as space itself without the very consistency. And that of space, it is then to be perceived measurable. Of which, the standard of measurement is understood as time.

In general understanding, time is perceived as a measurement to the duration of an event and the perception of the observer’s ordinated interval of a period. In other words, time is generally understood in respect to length. For the measurement of the length of time, under the influence of the Egyptian calendar3, the Julian calendar4 was introduced and popularized by Julius Caesar in 46 BC as a reform of Roman calendar5 shortly after Rome had conquest Egypt. According to the history of Egypt, the formation of the calendar is mainly based on the periodical orbits of planets. Of which, the calendar determined the definition of years, months, days and hours, with respect to the periodic cycle. The Julian calendar stated a Sothic cycle, which is derived based on the planet call Sirius, is 1460 years. Of which, the Sothic cycle is interconnected to the definition of a year which is observed and divided into 365.35 days with the sun as the parameter. Furthermore, a year is divided into 12 months and that a day is divide into 24 hours which each hour is divined in 60 minus and 60 unit seconds. In modern science of study of atomics, with the second as unit under decimal system, the connections between observable planetary movement and atomic periods are consistent. Furthermore, as technology develops, time was regarded as an extra dimension separately in respect to the sense to space, yet heavily relies on the physical sense of length. However, time ought not to be considered by the empirical parameter of any aspects, but to be viewed as a part of the knowledge that was provoked by Plato6. Of which, knowledge takes neither physical nor mental forms, but a whole of any possible existence. As for the historical and anthropological attributes of the understanding of time, therefore, before further discussing the insight of time, the analysis of the current human believe and understanding system ought to be examined along with Plato’s philosophy. Hence, implicitly speaking, the current scientific perception of time doesn’t exist logically in respect to its theoretical consistency.

For Plato, he is a significant figure in the field of philosophy, who was said to have coordinate influence throughout human history and the intellectual development as a Greek philosopher. The current development in the themes of philosophical concepts in metaphysics, which mainly consist of the study of ontology and empirics, are found address to Plato’s life contributions which are mainly documented in his dialogues. For Plato’s dialogues, the philosophical approach of the explanation of life is emerged implicitly within, as well as the earliest documented concepts and awareness of what Plato called forms and knowledge. The understanding to knowledge is proven to be valid by the illustration of forms and is theoretically consistent due to the property of the dialectic method7. Nevertheless, was the human awareness of morality, government, and the concepts of reality found express systematically within, in both the senses of implicit and explicit. However, as Plato’s dialogues are documented in dialectic form; therefore, Plato’s philosophical concepts ought only to be found implicitly as one’s comprehension and realization in respect to the integrity of Plato’s philosophy and the consistency between that and the documentation form of dialectic. For the dialectical method that had been examined objective and consistent as one of the highest forms of expression in discourse, its essential purpose is to be said the documentation of different reasoned arguments of a subject from multiple people. Yet, the values of a discourse in the form of dialectic need not to be concrete but to be sought independently through one’s very own level of logical rationalization and reason. Of which, it avoids the empirical true or false property that against the integrity of metaphysics and Plato’s original purpose of philosophy. Later, an epistemological teaching method similar to dialectic, the scholasticism8, was developed by the academics of the medieval universities in Europe from 1100 to 1600. Of which, the main dominated criteria were called Lectio, Meditatio, and Quaestions. Each of the criteria is a separated process of education, yet remains together as an integrity similar to the dialectical method. Without deviating from the objective truth, the essential property of philosophy and educational purpose, the instructor would read the context of documents while there is no questioning permitted and allow students to meditate and logically reason over the materials afterward. Finally, students are allowed to question the materials with the confusions that were encountered during and after a thorough meditation. However, the manipulability of the beneficial potential of theoretical education was soon to be realized in terms of the effectiveness and productivity of applying them in the material world by the intrinsic desire of human being which could be theoretically determined as the objective evolution of the struggle to survive. Instead of regarding theoretical ideas as small parts of the observation and the realization of the forms and knowledge, under the pressure of industrial development, the reactive theoretical ideas are gradually developed into simple linguistic tools to manipulate material mechanism proactively. Subsequently, for the corresponding generations, education and context materials were deviated as needed based with an accelerating speed. Of which, pure philosophical ideas were managed to be derived and manipulated in different forms for countless times until they fit the material world. Gradually, education and context materials has forgotten their very fundamental philosophical concepts which require meditative, introspective and reactive abilities rather than proactive practice or memorization without the true understanding that is fully converted and subjective to one’s mind. Even though a true understanding to philosophy and self-introspection could generate a person the balance of mind and unlimited reactive power to the material world which is limited through the 5 senses9 as all ideas are under nevertheless the same abstract mechanism but coated with different expressions, it is disregarded by the majority under the influence and pressure of the society. The matter of true knowledge would not likely be considered until the accelerated misconception slows down and regresses into a dull and depressive stage that is logically caused by the accumulated errors and general contradictory understanding in theories and ethics. In conclusion, it can be summarized that a theory which claims to possess the absolute value is often a biased deviation to its deeper comprehension or at least is biased to the interpreter’s mind but objective.

According to Plato’s analogy of cave, the knowledge and true reality is insensible both mentally and physically. Of which, It has also implied that the external reality in common sense is nevertheless a perception of and is measured by human senses in combination, which are auditory, vision, sensation, taste, and smell. However, the quantity and quality of human senses in combination are highly varied; therefore, a person’s perception to external reality is never the same in compare to two separated moments in respect to the external variables and the changes in the quality or quantity of senses. For example, if a person smells the fragrant of rose without using the rest of the 4 senses, he cannot be sure whether the rose itself exists due to the pre-conception of the smell of rose or just a delusion of synthetic smell. As for vision, due to the observation that the speed of light is varied depends on the conductive material it travels in, the coordination of a visual object could not be absolutely measured by vision along. For example, because the speed of light travels faster in air than in water, refraction10 is created which illustrates a lighter depth in respect to physical coordination and color accuracy. Of which, it is to imply that the coordination of an object could not be observed only by vision. In conclusion, the external truth that is observed by human senses is unreliable and ought not to be treated as empirical truth. For mentality, the objective external observation that is filtered through senses will be further derived by emotions11, which are conventionally divided as rage, vigilance, ecstasy, admiration, terror, amazement, grief and loathing. Additionally, rather treat each emotions along, a person’s state of emotion is in balance at any moment in reference to Newtown’s law of motion. Because every object is forever moving or stays still12, and the sum of all forces which are applied on the object is equal to zero, a person’s stage of emotion along consists of all categories of emotions at any moment with different degrees that countered out as zero and exist as integrated unit. For example, one can always find an equal degree of painful emotion as an inverse at the same moment with objective self-introspection and by seeking a different parameter while he is thought to be under pleasurable emotional state, so is the other way around. Also, if one reaches a higher degree of pleasure in disrespect of balance, it’s to say that his subjective measurement of the emotional degree is subsequently raised. Thus, due to the change in the evaluation and the expectation of pleasure, one’s comprehension to pain is also raised. Logically, the combination of emotions and the combination of senses at a very moment provides the observer a very perception of the external reality. In other words, external reality could never be accurate to any universal standard, which is mere delusional. Therefore, external standards, even the ones that claim to be empirical, are unreliable and have the potential to act as deviated parameter to humanity and knowledge. For example, the earth-centric theory that acknowledge earth as the center of the universe which was known as the Ptolemy’s model13 of the universe is incriminated by Galileo in respect to the planetary movement. From Galileo’s perspective, in solar system, the sun is the center and the orbit of the planetary movement is observed with the sun as the parameter, which the concept is one of the firmest believes in modern science. However, there isn’t any proof why the earth can’t be chosen as a theoretical parameter could be found. In reference, the mathematical conversion, between Cartesian coordinate system with x, y, z 3 axis that is standardized by length and acts as a random parameter that is flavor to human senses as the only coordinate standard, demonstrates such a concept that an ordinary circle in x, y coordination can appear to be a straight line if or any shapes depends on the chosen parameters. Although, the firm believe might be able to explain why modern science is trying to find the very source of the universe that act as a generator to the planetary movement and mechanism when there is logically none, it’s rare anyone acknowledge that it is equally appropriate to choose the earth or any other planet as the center of the universe due to the infinite property of the universe. Of which, the implication is that one’s mind ought to be studied or viewed as an equal parameter to the external universe instead of being empirically centric to certain external phenomena. Also, it’s a proof that empirical theories are mere biased deviations to knowledge and ought not to be viewed as neither truth nor empirical parameters.

In the study of neurology and biology, its philosophical approach mainly addresses the mind-body problem14. The mind is to be said the main source of perception and physical behavior. In 18th century, a Swiss psychiatrist Carl Gustav Jung15, theorized and divined the understanding of mind into three interconnected parts which are the conscious mind, unconscious mind and subconscious mind. Jung further presented that the unconscious mind performs as a processor which also represents human intuition while conscious mind decodes and delivers sensory inputs to the unconscious mind for rationalizing information. In respond, the unconscious mind would then react and deliver information for the conscious mind to further encode it as instruction to body movement. As for the subconscious mind, it is to be said a memory storage that records the patens of the interactions of both conscious and unconscious mind, which could automatically instruct body movements while the others minds are occupied. As the location of the mind is considered as the brain biologically, disregarding the necessity of neurological preciseness, the brain was further divided into two regions known as the lateralization of brain function. Of which, its idea is said to firstly emerge in 1861 under the observation of a brain injured patient by a French physician call Pierre Paul Broca16. Broca’s concepts of left-right brain accredited Jung’s philosophical concepts of mind along with great similarity in terms of biology. Also, in modern neurological study, human brain consists of neurons which process and deliver information through electrical pulses. Moreover, the electrical pulses in between neurons are generated by electrons that are released from the reactions of neurochemicals. As long as a person remain alive, neurochemical would continually react. Thus, to conclude, human brain ought to be viewed as an integrity although it could be distinguished by the region of different functions. In other words, the percentage of the conscious mind increases along with the apparent decrease in the processes of the unconscious mind, as well the other way around. Moreover, if assuming physical time is the absolute empirical measurement, in respect to speed of chemical reaction and transmission of electrical pulse, a period or series of a complete electrical signal transmission in neural system is observed to be approximately 2 millisecond17. For muscle contraction, the minimum time required is range from 60 to 90 millisecond. Generally, from the beginning of one action to another, the brain would firstly decode information of the stimulants electrical signal that is delivered through senses. Secondly, it would follow with a series of chemical reactions in brain. Then, the signals after the reactions would be encode into body instruction which is generally muscle contractions. The duration of the action depends on the force of the object. Upon the completion, the change of the object would be a new stimulant and the neural system would repeat the first step. Hence, if one disassociates from the physical world or is in an unconscious state, one could perceive a complete physical action with only neurochemical reactions. Of which, it’s the result of the complete elimination of the muscle response delay and physical forces. In animal study, the research team in the study of sleep and dream from university of Arizona observed through EEG that a rat only needs approximately 200 milliseconds to get from point A to Point B in the dream when it needs 1.5 second to complete the action in reality18. Logically, assuming one’s life duration is 100 calendar years, the perception of his life time in internal reality would be roughly calculated as at least one hundred billion calendar years. As in unconscious state, one’s parameter of time won’t even be the same as the physical standard; thus, logically, the perception of time in common sense is proved invalid. Of which, it has also implied that one’s ultimate limit and measurement to all things is the mind which one set for himself by constantly choosing parameters.

For a result of the firm belief of the empirical measurement, the theory of black hole19 is derived and frequently refer to Einstein’s theory of general relativity20. Yet, it’s logically to be viewed as an implication to the deviated development in modern science and philosophy. Without a full consistency and integrity, the theory of black hole believes notions such as time travel, mass crash, dark energy and extra-dimension. As Einstein’s field equation in general relativity, time is implicitly calculated as standard length by using the speed of light. Most people thus perceive time as length separately as an axis in coordinae system. Hence, if the matters including gravity and the speed of light changes as 3 dimensional variables, time and space must have been able to be relocated and manually curved as well in respect to the mathematics of topology. However, under this circumstance, at least one or more parameter is chosen and the concept lacks purposed integrity. For example, if there is an external black hole and is reachable somewhere in the universe, instead of either crashing the mass of an object, curving space and time, while approaching the black hole, the observer and the surrounding of the observer would be gradually suppressed simultaneously. Of which, all the elements including the observer himself would be suppressed in respect to all axis. Subsequently, the speed of the decay process of all elements would be decreased at the same rate and the rotation of each element would be slowly inversed until both the mass and the speed of decay process reach infinity. Afterward, to the observer’s objective senses, all element and surrounding would be completely inversed with the observer as the 4 dimensional universe and that the universe as a 3 dimensional object. For example, hydrogen would be the last and the most radioactive element. Also mathematic senses of inside out, upside down, and 360 degrees around could be perceived. In other words, if all elements including the coordinate system change simultaneously which implies both the observer and the surrounding, the observer would not be aware of any differences instead of being highly compressed without integrity. Thus, black hole in common understanding does not exist. And that if it does exit, it could be created on earth, although the person would be dead with the speed of light due to the radioactivity of elements and causing immense radioactive contamination. Also, it logically proves that the existence of the potentially manipulative dark matter and dark energy subsequently are not valid. In contrast, the concepts of black hole should be regarded as a pure physical or geometrical understanding as a form Plato’s concepts of knowledge. Moreover, in respect to Einstein’s general relativity, it ought to be understood as a realization of the mechanism of all physical things and a modern approach for people to regain a general philosophical realization which the reality is in the mind of the observer. Of which, there ought not to be set any parameters as restriction. As implication, one need not physically experience an object to know its property, proper rationalizing would provide a cleverer, more objective and faster image when properly choosing and projecting the parameter in demand.

Moreover, from the world famous physicist Stephen hawking’s perspective, he argued that black hole doesn’t exist. However, in his famous book the brief history of time21, he provoked the existence of big bang theory. Stephen believed that time and space are empirically measurable, and that time and space begins with the big bang which was generally perceived to be the beginning of the universe. Accordingly, as elements are able to decay and be manufactured in to a new element trough the decay process. Space thus expands with respect to time as the element evolves or decays which provide mass in an increasing rate. As the theory develops, some physicists believe that the universe will eventually expand till a degree where it’s too cold to live. However, the big bang theory itself is logically paradoxical. The big bang itself requires space as a premise and that assumes its validation, thus, there ought to be one day where the universe expand to a degree of infinity and subsequently stretches out and crashes which is actually similar to the inconsistent belief of the black hole in respect to logic. If the existence of the big bang did exist and the universe is expanding, in respect to integrity, humanity will always be able to adjust naturally as both beings and the surrounding is expanding in relative to the same rate simultaneously. As a result, human would either evolved into a different species with different consciousness in respect to the present, or humanity will be relocated elsewhere in the universe without noticing. Thus, logically, as beings exist in different forms at all time in consistency to the theory, the big bang theory is then proven not valid. Instead, the concepts of big bang ought to be regard as a philosophical theory to the question of why human exists. Subsequently, time is neither a separated entity nor simple measurement.

In contrast, Plato’s philosophical concepts of knowledge and the concept of reality from the analogy of cave could be taking into consideration as reference. The abstract property of Plato’s concepts of knowledge that was described as physically and mentally insensible are both a hard and easy to understand as could be perceived contradictory. The universe and the reality including the self should always be perceived as an interconnected whole. In other words, the true knowledge could not be measured by any aspects or standards. Of which, a measurable reality is thus not true. As it’s human nature to accept and pursue external understanding, because senses, desire and emotional state is the limit to the external world, even there are more to discover, it won’t be revealed as if it’s beyond human senses. Also, the reality is perceived by the mind. The reality or the ultimate parameter thus doesn’t exist. Because both the mind and the external world are governed under the same mechanism, they are to be said interconnected. Logically, there is nothing in the sensible physical world could not be rationalized, and that individual’s mind is equal the platonic knowledge. Of which, the physical world is a projection of the mind through senses. For example, assuming a person was born without the sense of touch or vision, he will never be able to understanding the common understanding of the physical world although the disability won’t bother him nor decrease his degree of happiness.

In conclusion, time does not exist logically neither in the common sense nor a separated dimensional understanding. Indeed, there is no empirical parameter or measurement exist in respect to the consistency of Plato’s concept of knowledge. The reality perceived by any other beings or a human being are actually preserves no different with a full consideration of integrity. The firm understanding of ‘Time’ is rather presents the limit of human mind than the ultimate parameter or empirical measurement. As the current state of scientific development, form external aspects, the speed of science seems to be limited by human 5 senses and the firm believes. Only if the realization is able to be achieved in society and that the understanding from philosophy changes, will there be a prolong state of peace be achieved among society for the love of wisdom in respect to the purpose of philosophy.

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