

Inorganic Life

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Abstract: Inorganic life refers to the four-season life being consisted of inorganic substances, including all celestial bodies and inorganic creatures in the universe. Artificial intelligence and robots are quasi-inorganic lives. The basic characteristics of inorganic life include composition of inorganic substances, feeding on inorganic substances, rigid body, strong physical strength and adaptability to severe environment. The main structure of life includes celestial stems and terrestrial branches. The celestial bodies in the universe are celestial stems, and the universe is orbicular; the intangible cubical energy bodies around the celestial bodies are terrestrial branches, and the terrene is rectangular. The terrestrial branches support the celestial bodies and drive the rotation of them. The sun and earth are connected through an intangible rigid energy axis. The structure of celestial stems and terrestrial branches universally exist in each human body, creature, country and artifact. The humans' cognition and simulation of nature and themselves include materialization and development of human's living place, human abilities, and evolution of manufacturing plant. The computer, artificial intelligence and robot are inorganic four-season systems simulating parts of human abilities, of which the major defect is the lack of the system of celestial stems, i.e., the lack of self-generating system of energy. In the future, the robot will be developed into inorganic man. The possible way to create inorganic man is 1) creating seeds of inorganic man and cultivating the seed in certain environment; 2) simulating the cosmic life environment, and creating inorganic man with inorganic substances through reproduction.

Keywords: Inorganic Life, characteristics, celestial stems, terrestrial branches, artificial intelligence, robots, inorganic man

1. Introduction

Inorganic life refers to the four-season life being consisted of inorganic substances [1], which is relative to the life being consisted of organic substances, i.e., organism. The universe is a life, and contains various life worlds, including tangible and intangible ones [2]. The galaxies and creatures on the earth are two kinds of tangible lives in the universe, where the galaxies are huge and are widely distributed in the universe; the creatures on the earth, generated by the earth, the solar system and the Milky Way Galaxy, are small and live in a small place. The number of galaxies is far more than that of creatures on the earth. Therefore, it is necessary to carry out research on inorganic life.

All kinds of lives in the universe are four-season whole with heart system [3]. This is the starting point of whole Life Science! The Taoists in China have already realized that human body is a small universe,

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and the universe is a huge human body. The creatures on the earth are reflections of galaxies, which means that there are natural connection and the similar mechanism, rules between such creatures and galaxies. Therefore, the preliminary research on structure, composition, functions of inorganic life can be carried out according to four-season theory and by referencing to such creatures.

The contemporary science and technology is developing towards inorganic life. The humans' cognition and simulation of nature is a process evolving from simple stage to complex stage; and humans have shifted from direct use of natural materials, refining of materials and process simulation to simulation of animals, humans and brain, and have developed the robots being consisted of inorganic substances. However, under the limit of current scientific knowledge, the simulation of life is limited to the level of tangible substances, and has not developed to the level of life. Despite the rapid

development of technology of artificial intelligence and robot, the complexity of them is far less than that of a biological cell. According to the current theory of life science, it is impossible to develop from robots to inorganic man. But, when the modern science enters the era of overall science and technology, i.e., life science and technology [1], humans will get complete and accurate knowledge of all kinds of life in the universe, and will be able to simulate the galaxies, animals, plants and humans, and create artificial inorganic life.

Artificial inorganic life is one of the key technologies for new science and technology revolution [4], and the research on artificial inorganic life is of great significance.

2. Definition and Types of Inorganic Life

2.1 What Is Inorganic Life

Inorganic life refers to the four-season life that is consisted of inorganic substances and has four-level heart system. Each life has the body defined in Tao body [5]. The inorganic life is an entirety being consisted of tangible physical system and intangible mental system.

2.2 Types of Inorganic Life

Inorganic life is the life with intangible contents and tangible outline, including 1) all celestial bodies in the universe, such as galaxies, solar system and the earth; 2) inorganic creatures [3]; 3) artificial unmanned aerial vehicle, robot and the like, which are quasi-inorganic life.

Humans have always observed and studied the celestial bodies in the universe, but the modern science only deals with its representations and material composition, rather than studies the universe as a life. The reasons are that 1) inorganic life has not been recognized in modern science; 2) the intangible system in the universe has not been observed under limit of current level of modern science. However, as the invention of telescope enabled the macro study of

humans, and the invention of microscope enables the micro study of humans, the invention of next instrument, i.e., life instrument, will enable observation of intangible system.

It is known to many people that in the future, the robot will be developed into inorganic beings or inorganic man, inorganic animal, inorganic plant etc. Therefore, the existence of inorganic man or inorganic creature is indubitable. Inorganic creature is the form of life existing in prior to emergence of organisms. The first men appeared or created are inorganic men on the earth. In the Chinese myth “Nv Wa Creating Humans”, the humans were created by using soil, which means that created humans were inorganic men rather than organic humans. In addition, there are clear records of creation of humans with soil in “Genesis” and “Garden of Eden” of the Holy Bibles. The fact that these myths being passed down to this day is a sign of its reliability and importance. However, the modern people are blocked by Darwin’s theory of evolution, and are reluctant to explore the truth contained in the myth.

The current unmanned aerial vehicles, robots and artificial intelligence only have part of life structure and abilities, and are therefore not a complete inorganic life. In the future, a complete inorganic life will be created after getting whole knowledge of structure of life and creating method.

2.3 Two Kinds of Inorganic Lives with Different Outlines: Galaxies and Inorganic Creatures

There are two kinds of inorganic lives in the nature, which are celestial bodies such as galaxies, and inorganic creatures, the latter are generated or created by the former. The two kinds of inorganic lives are entirely different in terms of outline.

Both galaxies and solar system are disk-shaped and very huge, and are characterized by rotational motion. On the contrary, among creatures, the humans and animals have four limbs and brain, and can move upright and with four limbs respectively; the plants

are rooted in the ground and can keep upright, but they cannot move. All creatures are small. In addition, the galaxies, solar system, flying saucer or UFO are entirely different from humans, animals and plants in terms of outline.

Generating creatures and humans and carrying humans in the universe, galaxies and the solar system are parent body of humans, the object the humans can relied on, and the home of humans. Besides, they are carrier. The quasi-stellar objects, with the speed of light level, are light-speed vehicle of inorganic life.

3. Basic Characteristics of Inorganic Life

The inorganic life, just like the organism, is a four-season entirety. In addition to the same structure as organism, the inorganic life has at least the following characteristics:

(1) The inorganic life consists of inorganic substances, and the inorganic molecule is simpler than organic molecule of creatures.

(2) The inorganic life is mainly fed on inorganic substances. On the contrary, the organism is mainly fed on organic substances.

(3) The inorganic life can bear extreme, harsh environment such as high temperature, high pressure and low temperature, and is highly adaptable to environment, which has been embodied in robots. On the contrary, the organism has limited adaptability to environment.

(4) The inorganic life is a rigid executor, an affectionless life, and a life that can strictly execute command and act accurately. On the contrary, organisms such as humans are sentient life that can be influenced by affection, and cannot strictly execute command or act accurately.

(5) The body of inorganic life such as galaxy and robot is rigid, while the body of animals and humans are very flexible.

(6) The inorganic life is inexhaustible, and its physical strength is much stronger than that of humans.

(7) The outline of some inorganic life is disk-shaped, for example, galaxy. On the contrary, such outline is not exist in organisms.

4. The Celestial Stems and Terrestrial Branches of Life

The heavenly stems and earthly branches are the two important concepts used by ancient Chinese to describe the life structure, movement and change, and have rich meanings [6]. The system of celestial stems is the main system of life, while the system of terrestrial branches is the support of the former [7] and provides energy for it. The life is a four-season system which includes multiple four-seasons, such as the following two four-season systems: the system of celestial stems and the system of terrestrial branches.

4.1 *The Celestial Stems and Terrestrial Branches of Celestial Bodies: Orbicular Universe and Rectangular Terrene*

The celestial bodies in the universe are celestial stems, which are tangible. The universe, just as the celestial bodies, is orbicular. The terrestrial branches are supports of celestial bodies, which are intangible rigid structure supporting and driving rotation of celestial bodies, for example, the 12 terrestrial branches of rotation of the earth support the earth and provide it with powerful energy. The terrene is rectangular. This is the philosophy of orbicular universe and rectangular terrene. The celestial stems and terrestrial branches exist simultaneously, and constitute a unified interaction body, i.e., celestial stem + terrestrial branch system. There are intangible cubic energy bodies around a celestial body, which is true for all celestial bodies [8]. See Fig. 1.

The orbit of the earth around the sun also consists of 12 terrestrial branches, and is an intangible rigid orbit. The sun and the earth are connected by a rigid intangible energy axis, as shown in Fig. 2. The same is true between the earth and the moon, and between the sun and other planets [9].

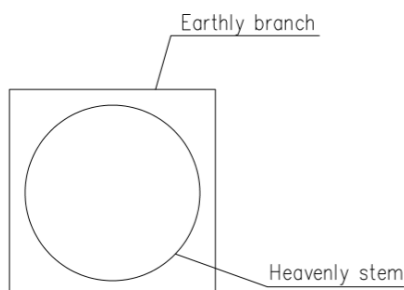


Fig. 1 Orbicular universe and rectangular terrene.

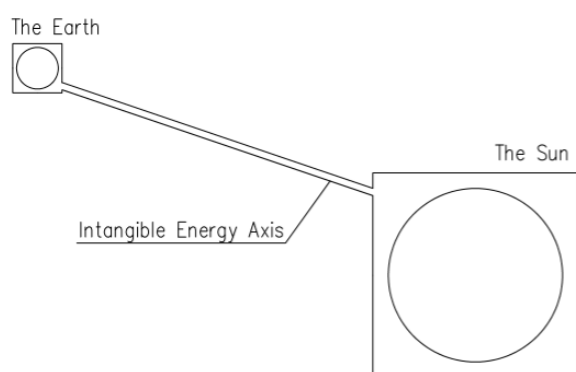


Fig. 2 Intangible energy axis between the earth and the sun.

4.2 The Celestial Stems, Terrestrial Branches and Its Peripheral Systems of Human Body

The human body mainly consists of 1) the system of 10 celestial stems; 2) the system of 12 terrestrial branches; 3) peripheral executive system; 4) sensory perceptual system and information center or control center: brain.

The system of 10 celestial stems refers to Five Zang and Five Fu, which can constitute a dual four-season structure [7]. It is the material transportation and transformation system of human body which can generate the energy required by human body. The system of 12 terrestrial branches, as the support of ten celestial stems, consists of spine and ribs of human body. It has the channel for delivery of intangible energy to brain [5], and also has a dual four-season structure [7].

The peripheral system of human body includes four limbs, information system and control center: brain, which can also constitute a four-season structure, as

shown in Fig. 3.

The sensory perceptual system consists of internal sensory system and external sensory system, including eyes, ears, nose, tongue, body and mind. The information system and control center of human body also can constitute a four-season structure, that is, including 1) perception and transmission of information to brain; 2) processing of information, which shall be completed by central nervous system of brain; 3) storage of information; 4) issuing of brain command to actuators of human body, the latter will execute the command. The actuators of human body include eyes, ears, nose, tongue, body, mind and four limbs.

4.3 The Celestial Stems and Terrestrial Branches of Creature

All creatures have internal transportation & transformation system and support system, as well as peripheral protection system, executive system, i.e., the system of celestial stems and terrestrial branches and peripheral executive system. The system of celestial stems and system of terrestrial branches of animals are similar with those of human body. Plants have four-season transportation and transformation system (i.e., celestial stems), support system (i.e., terrestrial branches) and epidermis (i.e., protection system). The multicellular organism and unicellular organism have a simple structure of celestial stems, terrestrial branches and outer membrane.

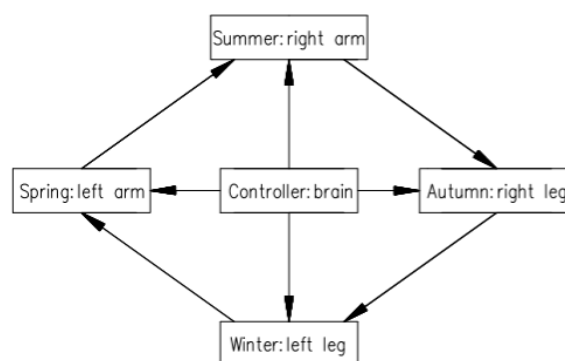


Fig. 3 The four-season structure of peripheral actuators of human body.

4.4 *The Celestial Stems and Terrestrial Branches of Society*

A country is basically composed of territory, people and army. A country is a four-season life, and also has the structure of celestial stems and terrestrial branches: the production system of domestic population, namely the real economy operation system, is the celestial stem of a country; the territory is the terrestrial branch of a country, and is the living conditions and space for the people of the country; and the army is the protection system of the celestial stem and terrestrial branch. The central government is the center of thought, information and control of a country.

4.5 *The Celestial Stems and Terrestrial Branches of Artifact*

The universe is a life, and every substance and object in the universe is a part of life. Therefore, the artifact is the simulation and utilization of partial or whole structure and functions of life by humans, and that is the simulation and creation of partial or whole celestial stems, terrestrial branches and peripheral system of life. That is to say, every artifact is equivalent to celestial stem, or terrestrial branch, or combination of celestial stem and terrestrial branch.

5. Formation and Evolution of Artificial Inorganic World

5.1 *Formation of Artificial Inorganic World*

Humans are borne and live in the universe. Therefore, the existence of humans includes activities and living space of humans. Humans have creative ability to create manufacturing plant, tools, machine and various materials to build artificial inorganic world and artificial organic world, namely the artificial ecology. The inclusion of inorganic world in the artificial world is the manifestation of creative ability of humans.

Survival and development are the main line for development of human society, which is mainly

manifested in three aspects: continuous improvement of manufacturing ability of humans, improvement of materialization of various human abilities, and continuous updating of living place of humans.

5.2 *Materialization and Development of Humans' Living Place*

The humans' living place or space refers to the place and relevant facilities in which the humans live, work, have entertainment and education, including houses and all living and working facilities, roads. The materialization of living place or space is the simulation of celestial bodies and galaxies, and its development can be divided into the following four stages.

(1) Early stage of human history: At this stage, natural material and natural environment are utilized. Humans, with huge internal energy, take natural cave as house, or build house and relevant facilities by using natural materials that are not chemically processed. This is the age of innocence of humans [10].

(2) Stage of manufacturing single materials: At this stage, humans live in an artificial material environment: natural materials are physically or chemically processed to manufacture various homogenous materials, composite materials and function materials with excellent property, thus to build artificial living and activity place. Humans are still at this stage now. At this stage, the material granularity of artificial material has been gradually decreased to the level of Nano and Angström, which is the limit of homogenous material.

(3) Stage of manufacturing life materials: At this stage, humans live in artificial inorganic life environment. After reaching the development limit of homogenous material, humans will turn to develop life materials [11], and the age of inorganic life technology will begin. The current intelligent materials are peripheral parts of life materials. With the development of inorganic life science, much more

attentions will be put to research and development of life materials, and therefore the artificial world constructed by using life materials, i.e., the artificial life environment will emerge.

(4) Stage of energy boosting of artificial life environment: Since the newly emerged artificial life environment has low energy, the next step is improving the internal energy, i.e., constructing high-energy artificial environment, which will promote improvement of internal energy and wisdom of humans.

5.3 Materialization and Development of Human Abilities

In the early stage of human history, humans had huge internal energy and great abilities. However, as the earth-solar system entered the autumn and winter [4], the internal energy of humans gradually decreased to the minimum level, and the human abilities decreased gradually. To make up for the loss, humans began to materialize their abilities.

Human abilities include the sensory ability, physical ability, thinking ability of hands, feet, six sensory organs, body and brain and the like. The materialization of these abilities refers to extension and instrumentalization of human abilities, for example, the materialization of sensory ability involves telescope, microscope and the like, the materialization of physical ability involves manufacturing of various machines, and materialization of thinking ability involves developing of computer and artificial intelligence etc. The materialization of human abilities can also be divided into four stages.

(1) Stage of natural human abilities: This is the age of innocence of humans, in which humans integrated with nature, and had various powerful physical abilities.

(2) Materialization of single human ability: Humans began to separate from the nature, and each kind of ability of humans began to degrade. Therefore,

humans began to materialize their abilities. For example, instrument of labor involves materialization of hands; the automobile involves materialization of walking ability of humans; telescope and microscope involve materialization of eyes; electronic nose involves materialization of nose; computer involves materialization of brain etc. The characteristic of this stage is that the materialization of human ability is single materialization. That is to say, the computer, electronic nose and microscope are separated rather than interlinked. In addition, the current artificial system, machine and robot are the assembly of single organ or component.

(3) Stage of overall materialization of life, i.e., stage of inorganic life: Unlike the current robot which is assembled, the inorganic life or inorganic beings will be propagated or reproduced as a whole in this stage, which is the overall characteristic of life. Meanwhile, the emergence of inorganic man will certainly bring a huge impact on humans.

(4) Stage of thinking energy boosting of materialized life, or the stage of thinking energy boosting: The manufacturing of inorganic life mainly refers to manufacturing of hardware, while the software-thinking is still less-developed. But it can be considered perfect only when both hardware and software reach the highest level of life in the universe. Therefore, the inorganic man shall go through a period of thinking energy boosting, in which the thinking energy will be improved from the lower level to the highest level.

5.4 Evolution of Manufacturing System of Humans

The materialization (mechanization) of artificial environment and human abilities is completed through the manufacturing system (manufacturing plant) of humans. The works of manufacturing plants are also simulation of natural process, i.e., simulation of physical, chemical, biological, life and thinking process in nature, which is corresponding to Item 5.2 and 5.3. There are four states of manufacturing system.

(1) Universe manufacturing plant in natural stage: The universe is an omnipotent manufacturing plant, which has created the humans and all other things. The early stage of human history is a period of nature, during which the environment on the earth was clean, comfortable and with high energy; and humans had powerful abilities. Everyone was a saint, and the earth was a heaven.

(2) Manufacturing plant of homogenous material and single system. The manufacturing plants in this stage can produce homogenous material and system with single function. Humans are at this stage now, and the earth and humans have been severely polluted.

(3) Manufacturing plant of life materials and inorganic man, inorganic animal, inorganic plants: Such manufacturing plant, just like the solar system and galaxy, is an inorganic life system. The manufacturing plant which can create inorganic life is certainly a life. This is the stage humans are about to enter.

(4) Life manufacturing plant improving internal moral energy of humans. This is similar with the improvement of internal energy of humans through religious practice.

6. Four-Season Structure of Computer, Artificial Intelligence and Robot

The computer, artificial intelligence and robot are simulation of parts of human abilities, and therefore are quasi-inorganic four-season system.

6.1 Four-Season Structure of Computer

The computer consists of arithmetic unit, control unit, memory, input device and output device, and each part can perform specific function according to requirements, thus to complete the whole function of computer. The system structure of computer is a four-season structure, as shown in Fig. 4.

The computer consists of hardware system and software system. The computer software includes system software and application software, among

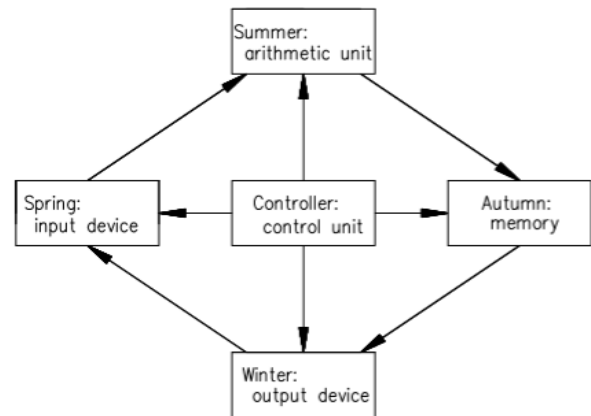


Fig. 4 Four-season structure of computer.

which the four-season structure is adopted. That is to say, each program with a beginning and an end is a four-season system, and can be reused. Every program contains four-season process of occurring or beginning, developing, achieving and end.

6.2 Four-Season Structure of Artificial Intelligence

Artificial intelligence is simulating structure and thinking of human brain, making inorganic brain (intelligent computer) or robot, and developing excellent abilities of language learning and processing, knowledge acquisition, knowledge representation, intelligent search, logic reasoning, machine learning, mode recognition, expert system, theorem proving, machine translation, planning, communication, perception, things moving, tool utilization and machine control that are similar with or exceed those of the average person's brain. The most critical ability of artificial intelligence is simulating and creating the independent and innovative thinking ability of humans. Artificial intelligence will replace humans, i.e., evolve into inorganic man.

Artificial intelligence is an automatic and intelligent system, and is an inorganic system. It can simulate all the wisdom of humans [12]: 1) various information input abilities-ability of cognizance, learning ability, ability of searching and discovering, ability of receiving command; 2) processing abilities- ability of recognition, ability of comprehension, ability of logic

reasoning and proving; 3) ability of summary, memory and recording; 4) information output ability, ability of command issuing and communication; 5) external executive ability: movement of limbs, moving of things, using of tools and control of machine; 6) improving and innovative ability. Among them, Item 1), 2), 3), and 4) constitute the four seasons of information of brain, Item 5) is the four seasons of limbs under control of brain, Item 6) refers to improvement of four levels, i.e. the improvement from 3-dimension, 2-dimension, 1-dimension to 0-dimension, which is consistent with Diagram of Daoism in Operation [3].

6.3 Robot Is a Quasi-Inorganic Being

The robot system consists of part of mechanism, sensor unit, control unit and information processing unit [13]. The part of mechanism includes manipulator and locomotion mechanism, where the manipulator, acting as human hands, can complete various works; the locomotion mechanism is equivalent to feet of humans, through which the machine moves. The sensor unit is designed to perceive the internal and external information of robot and deliver the information to the information center, and therefore is equivalent to sensory organs of humans such as eyes, ears and skin. Computer is the control center of robot, which is equivalent to human brain, and can coordinate the movements of each part of robot. The information processing unit (computer) is the tool for communication between humans and machine, and can change the movement of robot flexibly according to change in external environment.

From the perspective of life structure, these parts of robot are equivalent to the terrestrial branches and brain of humans, that is, the brain (the control unit and information processing unit), limbs (mechanism part), and information perception and conduction. It is obvious that the robot is not provided with celestial stems, i.e. self-generating mechanism of energy, which is the main problem encountered in robot

technology, and the main flaw of robot. The robot can generate energy for itself as long as it is provided with celestial stems.

7. Transition From Robot to Inorganic Man

Humans are still unclear about the nature of life, and the life simulation technology is still at the initial stage. After getting some knowledge of inorganic life, we will find that the manufacturing of inorganic man is entirely different from that of robot. The current robot is assembled by using different components. However, due to the complexity of life being such as humans, it is impossible to create inorganic man by the means of assembly. The possible way to create inorganic man is 1) creating seeds of inorganic man and cultivating the seed in certain environment. In this way, the cultivation method of biological seeds can be imitated; 2) simulating the cosmic life environment, and creating inorganic man with inorganic substances through reproduction.

The emergence of artificial inorganic life will bring a great threat and challenge to humans, to cope with which, humans shall improve themselves and enhance their internal moral energy [4].

8. Conclusions

(1) Inorganic life refers to the four-season life being consisted of inorganic substances, including all celestial bodies, inorganic creatures, artificial unmanned aerial vehicles and robots in the universe. There are two kinds of inorganic lives with different outlines in the nature: disk-shaped galaxies, and inorganic creatures look like humans and creatures.

(2) The basic characteristics of inorganic life include composition of inorganic substances, feeding on inorganic substances, rigid body, strong physical strength and high adaptability to severe environment etc.

(3) The main structure of life includes celestial stems and terrestrial branches. The system of celestial stems is the main system of life, while the system of

terrestrial branches is the support of the system of celestial stems. The celestial bodies in the universe are celestial stems, and the universe is orbicular; the intangible cubical energy bodies around the celestial bodies are terrestrial branches, and the terrene is rectangular. The terrestrial branches support the celestial bodies and drive the rotation of them. The sun and earth are connected through an intangible rigid energy axis. The structure of celestial stems and terrestrial branches universally exist in every human body, creature, country and artifact.

(4) The humans' cognition and simulation of nature and themselves is a process evolving from simple stage to complex stage, from individual to whole (of life). It includes materialization and development of human's living place, human abilities, and evolution of manufacturing plant.

(5) The computer, artificial intelligence and robot are inorganic four-season systems simulating parts of human abilities, of which the major defect is the lack of the system of celestial stems, i.e. the lack of self-generating system of energy.

(6) In the future, the robot will be developed into inorganic man. The possible way to create inorganic man is i) creating seeds of inorganic man and cultivating the seed in certain environment; or ii) simulating the cosmic life environment, and creating inorganic man with inorganic substances through reproduction.

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