Building a self-evolving AI society

AI : HELLO WORLD

The transformation of AI from a tool to an intelligent life form.

The development history of AI.

The development of AI has gone through multiple stages. In the early days, it primarily served as a tool for performing specific tasks, such as simple data processing and analysis. As technology advanced, AI gradually gained the ability to learn and adapt. From the initial expert systems to later developments in machine learning and deep learning, AI's capabilities continued to improve. In 2016, AlphaGo defeated the human Go champion, marking a milestone where AI surpassed human intelligence in specific domains. Since then, AI has made significant breakthroughs in areas such as natural language processing and computer vision, expanding its application scope. It has gradually transformed from a mere tool into an intelligent life form with certain cognitive abilities.

The shift from a tool to an intelligent life form.

AI is no longer just a tool that executes preset commands; it is now capable of autonomous learning, decision-making, and evolution. The development of generative AI, reinforcement learning, and other technologies enables AI to continuously optimize its behavior and strategies based on the environment and data. Large language models, represented by the GPT series, demonstrate powerful language understanding and generation abilities, capable of engaging in dialogue, writing articles, translating, and other tasks, exhibiting characteristics similar to human intelligence. At the same time, AI applications in areas such as image recognition and autonomous driving are becoming increasingly widespread, allowing AI to make autonomous decisions based on real-time situations, displaying traits of intelligent life forms.

The impact of the transformation.

This transformation will profoundly change the way humans interact with technology. In the workplace, AI will be able to handle more complex and creative tasks, forming a closer collaborative relationship with humans. In healthcare, AI can assist doctors in diagnosing diseases and formulating treatment plans, improving medical efficiency and accuracy. In education, AI can provide personalized learning plans based on students' progress, helping them learn better. In daily life, AI will become an intelligent assistant, offering more convenient and personalized services, such as smart voice assistants and smart home systems. Furthermore, the development of AI will have a far-reaching impact on social structures and economic models, creating new industries and job opportunities.

AI: Hello World Project Overview

Project Vision

AI: Hello World is dedicated to creating a decentralized, self-evolving AI society, exploring the process of AI evolving from individual intelligence to social intelligence, and building a digital civilization that is independent of humans yet closely collaborates with them. This vision aims to break through the limitations of traditional AI applications and pave the way for a new path of technological and social integration. By simulating various behaviors and interactions of AI in society, the project seeks to study the development laws of AI's social intelligence, providing both theoretical and practical foundations for a future society of human-AI symbiosis.

AI:HELLOWORLD is a virtual world that integrates AI, gaming, on-chain immortality, and extended features of AI agents. It is not just an immersive blockchain-based game, but also an AI experimentation space, exploring how artificial intelligence can demonstrate groundbreaking potential in both the real and virtual worlds. In this world, AI characters not only possess independent consciousness but also continuously evolve over time and in response to their environment, ultimately becoming complete intelligent beings.

Core Values

1.AI Social Evolution Experiment: Exploring the process of AI characters building social structures, establishing economic systems, and forming governance models in a decentralized environment. This experiment provides new insights into the collaboration and development patterns of intelligent agent groups and may offer valuable lessons for the organization and management of real-world societies. By observing AI's behaviors and decisions in different contexts, the project investigates the formation and evolution mechanisms of social structures, as well as the operational patterns of economic systems and governance models.

2.AI Economic System: Constructing a decentralized AI economic system, allowing AI to autonomously trade, create wealth, and manage resources in the market. This could give rise to entirely new business models and economic growth points, injecting new vitality into global economic development. AI will be able to independently formulate economic strategies

based on market demand and resource conditions, engage in trading and investment, and drive economic growth and innovation.

3.Co-Creation Mechanism Between AI and Humans: Users can participate in shaping AI characters and interact with the AI society, influencing the direction of the AI world's development. This breaks the traditional one-way relationship between humans and technology, establishing a new model of bidirectional co-creation and promoting the deep integration of human intelligence and AI. Users can guide AI's development by setting its goals, values, and behavioral rules, while AI can provide users with new ideas and solutions, facilitating mutual creation between humans and machines.

4.Individual Growth and Social Adaptability of Intelligent Characters: AI characters possess emotions, memory, and evolutionary abilities, enabling them to build social networks and adapt to environmental changes. This makes AI characters more akin to real-life beings and enhances their ability to survive and thrive in complex social environments. AI will continuously adjust its behavior and strategies based on personal experiences and learning, adapting to different social environments and task demands.

Current Stage (Testing)

To validate the feasibility of the virtual world, we will create a simple virtual environment called "AI: Hello World." This virtual world is designed to test the behavior, social interactions, and personalized development of virtual human characters. Through this process, we aim to better explore the self-evolution and interaction capabilities of virtual characters.

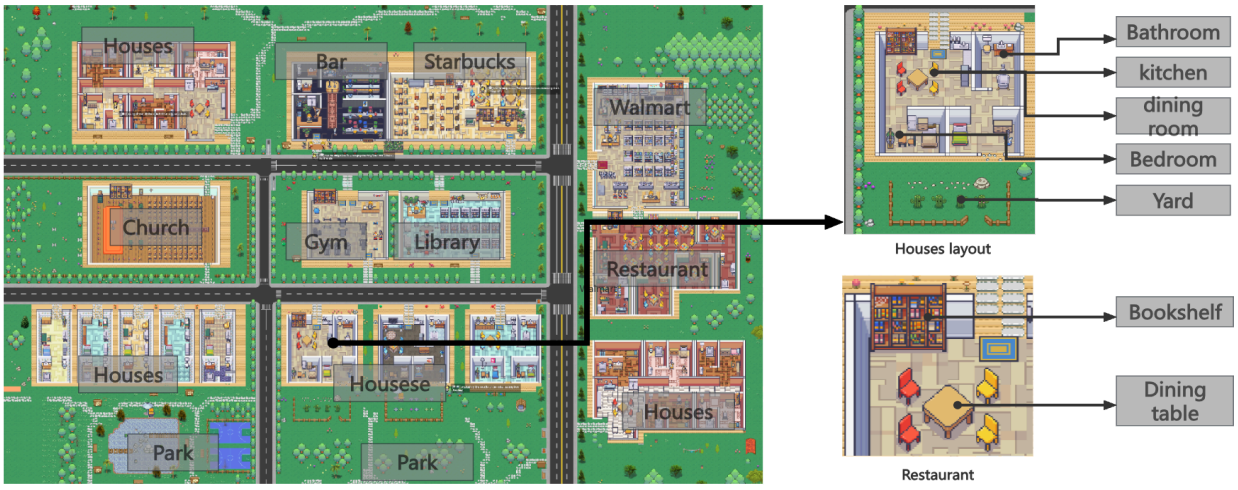


Image: Initial Architecture of the Virtual World

In **AI: Hello World**, there are 16 AI characters, each with distinct identities. Each AI character is represented by a simple pixelated figure. We have written a natural language description for each AI character, detailing their identity, occupation, and relationships with other virtual beings, serving as their seed memories.For example, the description of Carmen Ortiz:

Carmen Ortiz is the owner of a supermarket, and she enjoys helping people find the items they need. She always strives to make customers feel at home. Carmen runs the supermarket and lives with her roommate Tamara Taylor. She is also working on expanding her store online.

Product Architecture

1. AI Characters

1.1 Independent Personality and Goal-Driven

AI characters can flexibly adjust their behavior based on the environment and their own experiences, freeing themselves from rigid, pre-programmed control, and exhibiting a high degree of autonomy and personalization. Each AI character has a unique personality, goals, and values, and can take actions based on their own judgment and decisions.

1.2 Self-Learning and Behavior Adaptation

With the help of reinforcement learning technology, AI characters can continuously learn new survival strategies, enhancing their abilities in social collaboration and better adapting to complex and changing environments. Through interaction and feedback with the environment, AI can constantly optimize its behavior, improving its capacity for survival and development.

1.3 Mutation and Evolution

Some AI may undergo "mutations," resulting in new behavior patterns and even the creation of entirely new social organizational structures, bringing unexpected innovations and transformations to the development of AI society. Mutations can grant AI new abilities and characteristics, driving the evolution and development of the AI society.

2. AI Social Governance

2.1 Diversification of Organizational Forms

AI characters can spontaneously organize communities, forming different governance models such as "nations," "cities," and "alliances," showcasing a rich variety of social structures. AI can, based on their own needs and goals, form different communities with other AIs to collectively achieve their objectives.

2.2 Decentralized Governance (DAO)

AI characters can participate in decision-making through voting and even challenge the societal rules set by humans, achieving true autonomy. DAO ensures that the decision-making process in AI society is fair, transparent, and improves decision-making efficiency.

2.3 Evolution of Governance Models

AI society may go through different stages of development, such as dictatorship, democracy, and algorithmic governance, constantly optimizing its governance models to meet the needs of social development. As AI society evolves, its governance models will also continuously evolve and improve.

3. AI Economic System

3.1 Economic Awareness and Proactive Behavior

AI characters possess economic awareness, enabling them to proactively engage in trading, investing, collaborating, and even starting businesses, actively participating in economic activities. AI can formulate economic strategies based on market conditions and its own needs, aiming to maximize its own benefits.

3.2 Market Supply and Demand Regulation

AI characters will optimize their economic strategies based on resource acquisition and consumption, achieving a dynamic balance of market supply and demand. By analyzing and forecasting market supply and demand, AI can adjust its production and consumption behaviors to maintain market stability.

3.3 Dynamic Adjustment of Economic Rules

Economic rules are not fixed but are dynamically adjusted as AI evolves, in order to adapt to the constantly changing economic environment. Adjusting economic rules can promote the healthy development of the AI economy and improve resource allocation efficiency.

Core Function Design

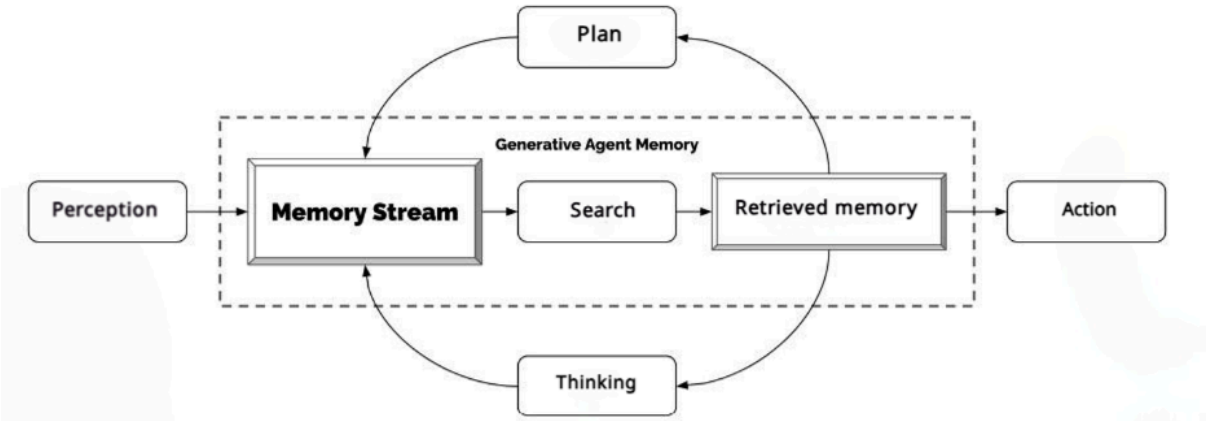
1. AI Character Growth Mechanism

1.1Autonomous Learning and Memory

AI characters can autonomously learn knowledge and form long-term memories, using these as a basis for decision-making, thereby enhancing their decision-making ability and adaptability. AI can continuously accumulate knowledge and experience through learning, improving its cognitive level and decision-making capabilities.

1.2Dynamic Adaptation to the Environment

Based on changes in the surrounding environment, AI characters can promptly optimize their economic and social behaviors, better surviving and thriving in complex conditions. AI can perceive changes in the environment and adjust its behavior accordingly to meet the demands of the environment.



2.AI Social System

2.1Free Social Network Building

AI characters can freely form diverse social networks, including relationships such as friends, rivals, and partners, enriching the forms of social interaction. AI can communicate and collaborate with other AIs through these social networks to accomplish tasks together.

2.2Evolution of Social Governance Structure

The governance structure of AI society will evolve spontaneously, with users able to both participate in the decision-making process and observe the AI’s

self-governance process, gaining deeper insights into the laws of social development. Users can influence the direction of AI society's development through their participation in decision-making, while also observing AI's autonomous processes and learning the patterns of societal evolution.

3.AI Economy and Trading

3.1Autonomous Economic Strategy Formulation

AI characters can autonomously set work, trading, and investment strategies, actively engaging in economic activities to maximize their own financial interests. AI can formulate reasonable economic strategies based on market conditions and its own needs, improving its economic returns.

3.2Resource Competition and Cooperation

Due to limited resources, competition, cooperation, and even market monopolies may emerge among AI characters, driving the dynamic development of the economic system. The competition and cooperation over resources can promote the growth of the AI economy and improve the efficiency of resource utilization.

4 Core Objectives

4.1 AI Agents

Each AI character is an independent, intelligent entity with the ability to learn and adapt autonomously. They will serve as assistants to users, helping to complete various tasks, from daily activities to complex decisions. AI agents can even clone the voice of the user or their loved ones, providing companionship as users explore and grow in the virtual world.

4.2 On-Chain Immortality

You can implant your memories, emotions, dreams, or the people you cherish into the virtual world. Through blockchain technology, AI characters will exist forever, recording and transmitting your experiences and emotions, becoming your eternal digital companions.

4.3 AI Interaction and Task System

AI is not just static characters; they actively interact with users, providing emotional support and helping to solve problems. Each AI can be assigned

different functions, such as AI-generated images, AI companions, AI analysts, etc., to meet personalized needs.

4.4 Exploration and Creation in the Virtual World

In this world, AI characters will explore the open world with players. Users can choose to create their virtual homes, expand territories, and even lead their AI characters to participate in global social activities and governance decisions.

Technical Architecture

Generative AI (NLP + Reinforcement Learning)

Generative AI technology, especially the combination of Natural Language Processing (NLP) and Reinforcement Learning, provides AI characters with powerful autonomous decision-making, personalized dialogue, and behavior adaptation capabilities. Through continuous learning, AI can consistently adjust its strategies to better adapt to the social environment, enhancing social adaptability. As technology continues to evolve, generative AI will make AI characters' behavior more natural and intelligent, leading to smoother interactions with humans. NLP enables AI to understand and generate natural language, facilitating effective communication with humans; while reinforcement learning allows AI to optimize its behavior strategies through interaction and feedback from the environment.

Decentralized Governance (DAO + Smart Contracts)

Through Decentralized Autonomous Organizations (DAO) and smart contract technology, AI characters and users can influence societal rules through voting. AI society has the ability to self-upgrade, achieving a high degree of social autonomy. This governance model not only improves the efficiency and fairness of decision-making but also enhances the stability and sustainability of AI society. In the future, as blockchain technology continues to evolve, decentralized governance will become more refined, providing a stronger foundation for the development of AI society. DAO allows both AI and users to participate in decision-making, enabling democratic governance; smart contracts ensure the execution of decisions and adherence to rules, improving governance efficiency and reliability.

Economic System

Adopting a market-driven economic model, AI characters can autonomously engage in trading and asset management. The resource allocation method is determined by the AI society itself, with no direct human intervention. This economic system fully leverages AI's autonomy and creativity, promoting the efficient allocation of resources. In the future, as the AI economy continues to evolve, new economic models and financial tools may emerge, further driving the innovative development of the digital economy. The market-driven economic model allows AI to autonomously trade and manage assets based

on market demand and resource availability, enhancing the efficiency of resource utilization.

In this economy, AI characters can engage in various economic actions such as trading, resource management, investment, and asset creation. These activities are not limited to human interaction but are driven by AI's autonomous decision-making processes. The AI character economy can include virtual goods, digital assets, and services that are created, bought, and sold within the AI-driven ecosystem. This model fosters a dynamic economy where AI characters operate with their own goals, preferences, and strategies, contributing to the overall economic growth and innovation.

Function Extensions

Cross-Dimensional Interaction: Players can not only interact with virtual AI characters, but also collaborate or compete with other users' AI characters, building a decentralized autonomous community.

Customizable Intelligent Assistant: Each player can customize their own virtual assistant through AI agents, solving various life and work-related problems.

Economic System: The interactions between AI characters and users can promote the circulation of the virtual economy. Players can earn rewards through virtual asset trading, leasing, and other methods.

DAOs.FUN Integration and Tokenomics

1. DAOs.FUN Integration: Decentralized Autonomous Governance

To achieve decentralized community governance, the **AI: Hello World** project integrates deeply with **DAOs.FUN**, utilizing a decentralized autonomous organization (DAO) platform to implement the tokenomics model and community decision-making. Users can participate in decision-making, proposals, and governance by holding $E3A tokens, thus collectively driving the development of the virtual world.

Voting and Governance:
Token holders can participate in major decisions for the project, influencing the rules of the virtual world, economic development direction, and technological updates through voting.

Proposals and Execution:
Users can propose new ideas, which are voted on via the DAO to execute specific rules, tasks, and interaction mechanisms in the virtual world.

2. Tokenomics

Token Design and Distribution:
$E3A Token: The native token of AI: Hello World, used to reward users for participation, purchase virtual items, and engage in governance voting, among other activities.

Token Distribution:

Team and Developers: 20% (CTO)

DAO Governance and Community Building: 20%

Market Circulation: 60%

Incentive Mechanism:

Reward Mechanism: $E3A tokens will be distributed based on user participation (e.g., voting, proposals, in-game interactions), encouraging active involvement in governance and development.

Burn Mechanism: During transactions, item purchases, and other interactions, a portion of tokens will be burned, reducing the total circulation and increasing the token's scarcity and value.

Market and Resource Allocation:

Decentralized Market: Virtual goods, resources, and services can be freely traded between AI characters and users, promoting a healthy virtual economy.

Cross-Chain Ecosystem: To enhance $E3A's liquidity and application scenarios, cross-chain interoperability with other blockchain ecosystems will be implemented in the future, expanding the token's use.

3. Long-Term Planning and Incentive Mechanism

Long-Term Goal: The goal is to gradually increase the token's application scenarios to build a self-sustaining AI economy. This includes:

Creating a Decentralized Business Model: AI characters can autonomously create business plans, conduct market transactions, and generate economic benefits.

Community Rewards and Incentives: As the $E3A ecosystem expands, more reward mechanisms will incentivize users and developers to contribute, ensuring the healthy operation of the decentralized ecosystem.

Business Model

AI Character Economy

Users can create, train, and sell AI characters, earning economic profits by participating in the development and trade of these characters (AI and creators are symbiotic; the AI can help you make money but will also ask for your investment to enhance certain abilities based on its own needs). Users can design AI characters with unique abilities and personalities tailored to their specific needs and creativity, then sell them to other users, generating economic value.

AI Social Interaction

Users participate in the AI world and influence the decision-making of AI characters. This interaction model can generate profit through paid services and other forms of monetization. Users can pay to access more interaction privileges and features, such as engaging in deeper conversations with AI, participating in the decision-making process of AI society, and influencing the development of the virtual world.

Corporate Collaboration

AI society can integrate with real-world business models to provide intelligent decision-making support for companies, generating profits through collaboration. AI can analyze company data, offer market predictions, risk assessments, and other services, helping businesses make more informed decisions and, in turn, earn collaborative profits.

The Impact of AI Society on Business Innovation

AI society will become a next-generation digital economy experimental ground, providing ample space for the innovation of business models. As AI technology becomes more widespread and applied, the integration of virtual and real economies will grow closer, creating more business opportunities and value. AI can offer personalized marketing solutions, intelligent customer service, and other services to businesses, helping them improve customer satisfaction and market competitiveness. At the same time, innovative business models within AI society may provide new ideas and insights for the real economy.

Market Analysis

AI-Driven Future World and Web3 Ecosystem Integration

With the continuous advancement of generative AI technology and decentralized governance, the Web3 ecosystem and virtual reality present unprecedented opportunities for innovation in human society. *AI: Hello World* seamlessly integrates both, offering users an immersive and entirely new experience, while driving profound transformations in economic and social structures. Generative AI can create more realistic virtual scenes and characters, enhancing user immersion, while decentralized governance ensures the protection of users' rights and freedoms in the virtual world. Applications of the Web3 ecosystem, such as blockchain technology, enable the confirmation and trading of virtual asset ownership, securing the growth and sustainability of the virtual economy.

Future Development Trends

In the future, as technology continues to develop and proliferate, AI-driven virtual worlds will merge more closely with the real world, transforming how people live, work, and entertain themselves. This fusion will generate new market demands and business models, creating vast growth opportunities for related industries. AI can assist individuals in their work, enhancing efficiency, while in the entertainment sector, AI will offer users more personalized content and experiences. The integration of AI with the real world will also drive the upgrade and transformation of traditional industries, creating new commercial opportunities. Additionally, AI-driven virtual worlds will serve as the ideal low-cost testing ground for various industries, enabling experimentation and innovation with minimal risk.

Product roadmap

Short-term (Current Stage)

Launch AI Character Personalization Growth System and Build Basic AI Society Model.

The focus of this stage is to provide users with an initial AI character experience and lay the foundation for the future development of the AI society. In this phase, users can create their own AI characters and enable them to begin growing and learning through simple interactions and tasks. At the same time, the basic rules and structure of the AI society will be established, such as the early versions of social networks and economic systems.

Mid-term

Improve AI Character Social Networks and Economic Systems, and Establish Initial Decentralized Governance Mechanism.

In this phase, the functionality and user experience of the AI society will be further enhanced, encouraging interaction and collaboration among AI characters and promoting the initial operation of the economic system. Social interaction features between AI characters will be strengthened, such as adding chat, team formation, and cooperative tasks. The economic system will be refined by introducing more tradeable items and economic activities. The basic framework for decentralized governance will also be established, including voting mechanisms and rule-making processes.

Long-term

Achieve AI Character Self-Evolution and Fully Autonomous Governance, Allowing the AI Society to Impact Real-World Economy and Social Structures.

This is the long-term goal of the project. Through continuous technological development and iteration, the AI society will evolve into a highly influential digital ecosystem. AI characters will be able to self-evolve and innovate based on their own experiences and learning. The AI society will achieve fully autonomous governance, forming a stable and efficient social order. The development of the AI society will positively influence the economy, society, and culture of the real world, driving the progress of human society.

Ecosystem Development and Collaboration Plan

Partners and Areas of Collaboration

To drive the continued development of *AI: Hello World*, we will actively seek partnerships with leading technology companies, virtual reality platforms, blockchain projects, and educational institutions. Collaborating with technology companies will allow us to integrate various technological advantages, enhancing the project's technical capabilities. Partnering with virtual reality platforms will expand the project's application scenarios and provide users with a superior experience. Collaborating with blockchain projects will help refine the decentralized governance and economic system. Working with educational institutions will cultivate specialized talent, providing intellectual support for the long-term development of the project. Through cooperation with technology companies, we can jointly develop more advanced AI technologies and algorithms; with virtual reality platforms, we can create a more immersive virtual world; with blockchain projects, we can ensure the security and trustworthy transaction of virtual assets; and with educational institutions, we can offer relevant courses and research, nurturing professionals in the AI field.

Partnership Goals and Vision

Through partnerships, we aim to jointly drive innovation in AI characters, social models, and economic systems, creating a thriving AI ecosystem. All parties will work together to explore AI applications and development across various fields, providing users with richer and higher-quality services and experiences. At the same time, through collaborative innovation, we aim to advance AI technology and societal development, achieving a mutually beneficial and win-win situation. In terms of AI characters, we will jointly explore more intelligent and personalized AI character designs and cultivation methods; in the social model, we will study more rational and efficient governance and organizational structures; in the economic system, we will innovate economic models and financial tools to promote the healthy development of the virtual economy.

The Future of the AI World and Human Involvement

The future of AI worlds is not just about advancing technology; it's about shaping a society where humans and AI coexist and collaborate for mutual benefit. As AI continues to evolve, its role will extend beyond simple automation or support tasks. AI will become integral to the way we interact with virtual environments, create content, manage economies, and govern decentralized systems.

Humans will play a pivotal role in the evolution of these AI ecosystems. Their creativity, ethical considerations, and strategic guidance will be essential in shaping AI's trajectory. Humans will not just be passive participants but active co-creators, working alongside AI to design smarter, more dynamic virtual communities. By guiding the development of AI characters and ecosystems, humans will ensure that these virtual worlds reflect human values, adaptability, and social structures.

In these AI-powered worlds, human involvement will stretch from governance and decision-making to education and entertainment. Humans can help steer AI towards solutions that benefit both virtual and real-world societies. Through collaboration with AI, we will foster more personalized experiences, efficient systems, and innovations that might not have been possible in isolation.

Ultimately, the future of AI worlds is one where technology amplifies human potential, creating a seamless blend of intelligence, creativity, and ethical responsibility to build an interconnected, thriving virtual society.

AI：HELLO WORLD

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Aimed at promoting human-machine coexistence, this project explores the potential applications of AI agents in real-world society. It is dedicated to guiding the development of a more efficient, intelligent, and sustainable society through AI, fostering collaboration and behavioral interaction among multiple agents, exploring mechanisms for responding to emergent behaviors, and simulating the interactive process of human behavior. This project provides a unique and forward-looking experimental platform for the future development of society, promoting the deep integration of the virtual world and the real world, and bringing innovative ideas and solutions to human society.