

What Does it Mean to be Human?

Posted on October 8, 2018

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Introduction

To ask what it means to be human is to ask more than what biological species we belong to. Humans are animals with a particular evolutionary history, but human life is also shaped by language, culture, cooperation, memory, moral judgment, imagination, technology, and an unusual awareness of time and mortality. No single trait provides a complete definition. Other animals communicate, cooperate, use tools, remember the past, and respond emotionally to one another, so human identity cannot be defended simply by assigning every valued capacity exclusively to our species. Contemporary research instead suggests that the distinctive character of human life emerges from the interaction of many abilities: a particular brain and developmental trajectory, complex language, open-ended culture, social learning, causal reasoning, long-term cooperation, and the creation of shared institutions and symbolic worlds (Pollen et al., 2023; Morgan & Feldman, 2025). Being human is therefore both biological and relational. A person is born into a species, but becomes a participant in human life through relationships, language, practices, responsibilities, and meanings that no individual invents alone.

Human Biology and Evolution

Human beings are members of *Homo sapiens*, and any serious account of humanity must begin with biology. Our bodies and minds are products of evolution rather than exceptions to it. Humans share much of their genetic inheritance with other primates, yet relatively small genetic and developmental changes can have large effects on brain organization, metabolism, growth, vocal control, and the timing of development. Recent work in human-specific genetics has emphasized that understanding the human condition requires studying not only individual genes but also regulatory changes, developmental processes, and the ways genes affect cells and tissues across time (Pollen et al., 2023). The long period of human childhood is especially important because it creates an extended window for learning language, social rules, practical skills, and cultural knowledge. Humans are biologically prepared for social learning, but the specific content of a human life—language, religion, occupation, etiquette, values, stories, technical skills—comes from the communities into which a person is born.

Evolutionary continuity also encourages humility about claims of absolute human uniqueness. Chimpanzees cooperate, corvids solve problems, elephants display complex social behavior, and

many species learn from one another. The relevant question is therefore not whether humans possess entirely unprecedented capacities but how familiar capacities have been combined, extended, and organized. Human hands, upright walking, vocal anatomy, brain development, and intense social dependence created possibilities that interacted with culture over thousands of generations. Biological evolution and cultural evolution then began to influence one another. Cooking, tool use, settlement, agriculture, writing, institutions, and medicine altered the environments in which humans survived and reproduced. This means that the human organism cannot be understood as a finished biological design operating independently of culture. Human beings create environments that reshape development, behavior, and future possibilities. Biology gives us capacities and constraints, while culture transforms what those capacities can become.

Language and Consciousness

Language is one of the clearest features of ordinary human life because it enables people to communicate about things that are absent, hypothetical, remembered, promised, forbidden, imagined, or not yet created. Neuroscience indicates that language depends on a specialized and highly interconnected network in the human brain, particularly frontal and temporal regions that support access to linguistic knowledge and the combination of words and constructions into meaningful messages (Fedorenko et al., 2024). Language does more than transmit information. It allows people to inherit concepts developed by previous generations, coordinate plans with strangers, formulate laws, record history, teach technical procedures, debate moral principles, and create literature. Gesture works alongside speech and sign, showing that human communication is embodied rather than purely verbal (Kita & Emmorey, 2023). Through language, individuals enter worlds of meaning that existed before them and can contribute new meanings that outlast them.

Human thought is also marked by remarkable causal and imaginative flexibility. Children do not merely learn that one event follows another; over development they become able to reason about interventions, counterfactual possibilities, distant futures, hidden mechanisms, and abstract explanations. Goddu and Gopnik (2024) describe causal reasoning as a defining characteristic of human cognition because it supports theory-building, invention, and the capacity to imagine how reality could be different. This ability helps explain science and technology, but it also appears in everyday life when people plan careers, anticipate consequences, reconstruct another person's motives, or decide what they should have done differently. Consciousness adds another dimension: human beings experience the world from a first-person perspective and can reflect on their own thoughts, emotions, and identities. We can ask why we believe something, imagine ourselves in another role, regret the past, or judge our own behavior against standards we endorse. This reflective capacity is powerful, although it does not make human reasoning infallible. People remain vulnerable to bias, emotion, misinformation, and overconfidence, including when dealing with technologies such as [artificial intelligence](#).

Culture and Morality

Humans live in cultural environments of extraordinary complexity. Culture includes knowledge, customs, technologies, institutions, religious practices, artistic traditions, moral expectations, languages, and ways of organizing family and political life. For many years, cumulative culture was often described as uniquely human because innovations can be preserved and improved across generations. More recent comparative work suggests that cumulative change itself may not be exclusively human. Morgan and Feldman (2025) argue that what may be more distinctive is the open-ended scope of human cultural variation: people can continually create new practices, technologies, symbols, and institutions in domains far removed from immediate survival. A child born today does not have to rediscover mathematics, agriculture, music, constitutional government, or computing. Human life is built on inherited cultural achievements that individuals can learn, question, modify, and pass on. This makes every person radically dependent on people they will never meet, including past generations whose ideas survive through institutions and records.

Cooperation is equally important, although humans are neither perfectly cooperative nor naturally peaceful. Many animals cooperate, but human cooperation can extend to large groups of unrelated individuals, often through shared rules, reputations, institutions, and moral expectations. Melis and Raihani (2023) show that cooperation varies in cognitive demand depending on whether individuals must recognize partners, track contributions, and respond conditionally. Human societies push these problems to an unusual scale. People pay taxes, use common currencies, participate in legal systems, contribute to public goods, and coordinate with strangers through norms that depend on mutual expectations. At the same time, cooperation can weaken across group boundaries, and humans are capable of exclusion, exploitation, prejudice, and violence. Recent work emphasizes this tension: cooperation can be strong between individuals yet fragile between groups (Van Lange & Bergmann, 2026). Moral life arises partly from this social condition. Humans develop ideas about obligation, fairness, loyalty, dignity, harm, responsibility, and justice because living together requires judgments about how people ought to treat one another.

Identity and Meaning

Another important dimension of being human is that people construct identities over time. A person is not only a biological organism but also a child, parent, friend, citizen, professional, believer, skeptic, speaker of a language, member of communities, and participant in histories. These identities are partly chosen and partly inherited. They can conflict, change, or become sources of belonging and tension. Human beings tell stories about their lives in order to connect past events with present commitments and future plans. Memory therefore serves more than factual recall; it contributes to a sense of continuity. People can reinterpret earlier experiences, apologize, make promises, change loyalties, or commit themselves to goals that require years of effort. Such acts assume that the self has some continuity while also remaining capable of transformation.

Awareness of mortality gives human meaning-making a particular urgency. Humans know, in an abstract and anticipatory sense, that they will die, and societies develop rituals, philosophies, religions, artworks, monuments, families, institutions, and projects that respond to this knowledge in different ways. Mortality can produce fear, but it can also make commitments significant because time is limited. People ask whether a life has been worthwhile, whether obligations extend beyond self-interest, and what should be preserved for future generations. These questions cannot be answered by biology alone. Science can describe the conditions under which human beings evolved and the mechanisms supporting cognition, but it does not determine what an individual ought to value. Meaning emerges through relationships, traditions, reflection, creative work, moral commitments, and choices made under conditions that are never completely controlled.

Human Distinctiveness

A balanced account of humanity should recognize distinctive human capacities without treating other forms of life as insignificant. Humans possess unusual combinations of language, causal reasoning, cultural transmission, technological creativity, institutional cooperation, and self-reflection, but many building blocks of these capacities have evolutionary precedents. This perspective weakens the old idea that humanity must be defined by a single boundary separating “rational humans” from an undifferentiated animal world. It also reminds us that cognitive ability alone does not establish moral worth. Human history contains extraordinary achievements in science, care, art, law, and cooperation alongside war, domination, environmental destruction, and cruelty. The capacity for reflection creates responsibility precisely because humans can understand consequences, formulate norms, and organize collective action.

Human distinctiveness may therefore be best understood as a pattern of possibilities rather than a possession. Humans can create languages and institutions, accumulate knowledge, imagine futures, extend cooperation, and revise inherited practices. None of these capacities guarantees wise outcomes. Culture can transmit prejudice as well as knowledge; technology can heal or harm; group identity can support solidarity or conflict; language can communicate truth or deception. What makes human life especially significant is the ability to examine these inherited patterns and sometimes change them. Individuals are shaped by biology and culture, yet they can also become critics and reformers of the worlds that formed them. This tension between dependence and agency is central to the human condition. We are creatures produced by histories we did not choose, but we participate in creating the conditions that others will inherit.

Conclusion

Being human cannot be reduced to one gene, one mental capacity, or one philosophical definition. Human beings are evolved organisms whose lives become possible through unusually rich systems of language, learning, culture, cooperation, imagination, and reflection. Biology provides the

developmental capacities that make human life possible, while cultural inheritance gives those capacities specific forms. Language connects individuals to shared knowledge; causal reasoning supports invention and planning; cooperation creates institutions; moral judgment regulates social life; and self-awareness allows people to examine their own commitments. Human beings are also meaning-seeking creatures who live with knowledge of mortality and build identities through relationships and narratives. Recognizing these qualities does not require denying continuity with other animals. Instead, it suggests that humanity is distinctive because many social and cognitive capacities interact at exceptional scale and remain open to cultural transformation. To be human is therefore not merely to belong to a species. It is to participate in a shared but unfinished world of meanings, responsibilities, relationships, and possibilities that each generation receives and alters.

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