

Violence – Part of Being Human

Humankind has lived through a hideously violent century. World War I, WWII, wars in Vietnam, Cambodia, China, Bangladesh, Korea, Nigeria and elsewhere has extinguished millions upon millions of lives. Waging war is nothing new for us humans. Bloody conflicts from the Crusades to Kosovo have been a hallmark of our history. Which raises the questions: Is such behavior simply part of human nature? Are we hard-wired for war?

New Environment – Old Brain

When interpreting human behavior, it's best to remember that the strongest human instincts are to survive and reproduce. What we need to satisfy those instincts hasn't changed much since our primitive ancestors roamed the globe, it's about getting enough food, water and mates. Like it or not our modern skulls house a Stone Age mind. Though modern-day aggressors may not be aware of it, those primitive instincts drive their behaviors too. A strong group benefits from attacking a weaker group if in the process the aggressors gain fertile lands, reliable water, and greater market share - any resources that improve their collective livelihood.

There's no denying that aggression has been a good survival strategy. Which is why we humans are genetically hard-wired to fight. But what triggers that aggression and what can magnify it to the point of a Rwanda or a Kosovo? Human aggression got more organized with the introduction of agriculture about 10,000 years ago. With farming came the concept of land ownership - and defense - and the development of more complex and organized societies. Suddenly, there was more to covet, more to protect and more people around to help do both. The other condition for group violence is an imbalance of power great enough that aggressors believe they can attack with virtually no risk to themselves. Majorities have persecuted minority groups, whether religious, ethnic or tribal, again and again, believing they're immune from punishment. The tangled turmoil in the former Yugoslavia is only the most immediate example.

Animals Do it, Too

Humans' aren't the only ones who gang up. Chimpanzees, with whom we share 98.4 percent of our DNA, are another. Examples of taking such advantage of imbalances of power are rare in the animal kingdom

because that kind of behavior requires a sophisticated level of coordination and cooperation. However, both chimps and humans are certainly capable of it. History is a bath of blood. Modern man inherits all the innate pugnacity and all the love of glory of his ancestors. Showing war's irrationality and horror is of no effect on him. The horrors make the fascination. War is the strong life; it is life in extremis; war taxes are the only ones men never hesitate to pay, as the budgets of all nations show us.

Our bloody nature, it can now be argued in the context of modern biology, is ingrained because group-versus-group competition was a principal driving force that made us what we are. In prehistory, group selection (that is, the competition between tribes instead of between individuals) lifted the hominids that became territorial carnivores to heights of solidarity, to enterprise—and to fear. Each tribe knew with justification that if it was not armed and ready, its very existence was imperiled. Throughout history, the escalation of a large part of technology has had combat as its central purpose. Today the calendars of nations are punctuated by holidays to celebrate wars won and to perform memorial services for those who died waging them. Public support is best fired up by appeal to the emotions of deadly combat, over which the amygdala—a center for primary emotion in the brain—is grandmaster. We find ourselves in the “battle” to stem an oil spill, the “fight” to tame inflation, the “war” against cancer. Wherever there is an enemy, animate or inanimate, there must be a victory. You must prevail at the front, no matter how high the cost at home.

Universal conflict

Once a group has been split off from other groups and sufficiently dehumanized, any brutality can be justified, at any level, and at any size of the victimized group up to and including race and nation. And so it has ever been. A familiar fable is told to symbolize this pitiless dark angel of human nature. A scorpion asks a frog to ferry it across a stream. The frog at first refuses, saying that it fears the scorpion will sting it. The scorpion assures the frog it will do no such thing. After all, it says, we will both perish if I sting you. The frog consents, and halfway across the stream the scorpion stings it. Why did you do that, the frog asks as they both sink beneath the surface. It is my nature, the scorpion explains.

War, often accompanied by genocide, is not a cultural artifact of just a few societies. Nor has it been an aberration of history, a result of the growing pains of our species' maturation. Wars and genocide have been universal and eternal, respecting no particular time or culture. Archaeological sites are strewn with the evidence of mass conflicts and burials of massacred people. Tools from the earliest Neolithic period, about 10,000 years ago,

include instruments clearly designed for fighting. One might think that the influence of pacific Eastern religions, especially Buddhism, has been consistent in opposing violence. Such is not the case. Whenever Buddhism dominated and became the official ideology, war was tolerated and even pressed as part of faith-based state policy. The rationale is simple, and has its mirror image in Christianity: Peace, nonviolence, and brotherly love are core values, but a threat to Buddhist law and civilization is an evil that must be defeated.

Since the end of World War II, violent conflict between states has declined drastically, owing in part to the nuclear standoff of the major powers (two scorpions in a bottle writ large). But civil wars, insurgencies, and state-sponsored terrorism continue unabated. Overall, big wars have been replaced around the world by small wars of the kind and magnitude more typical of hunter-gatherer and primitively agricultural societies. Civilized societies have tried to eliminate torture, execution, and the murder of civilians, but those fighting little wars do not comply.

Archaeologists have determined that after populations of *Homo sapiens* began to spread out of Africa approximately 60,000 years ago, the first wave reached as far as New Guinea and Australia. The descendants of the pioneers remained as hunter-gatherers or at most primitive agriculturalists, until reached by Europeans. Living populations of similar early provenance and archaic cultures are the aboriginals of Little Andaman Island off the east coast of India, the Mbuti Pygmies of Central Africa, and the !Kung Bushmen of southern Africa. All today, or at least within historical memory, have exhibited aggressive territorial behavior.

Lethal legacy

Tribal aggressiveness goes back well beyond Neolithic times, but no one as yet can say exactly how far. It could have begun at the time of *Homo habilis*, the earliest known species of the genus *Homo*, which arose between 2 million and 3 million years ago in Africa. Along with a larger brain, those first members of our genus developed a heavy dependence on scavenging or hunting for meat. And there is a good chance that it could be a much older heritage, dating beyond the split 6 million years ago between the lines leading to modern chimpanzees and to humans.

A series of researchers, starting with Jane Goodall, have documented the murders within chimpanzee groups and lethal raids conducted between groups. It turns out that chimpanzees and human hunter-gatherers and primitive farmers have about the same rates of death due to violent attacks within and between groups. But nonlethal violence is far higher in the chimps, occurring between a hundred and possibly a thousand times more often than in humans.

The patterns of collective violence in which young chimp males engage are remarkably similar to those of young human males. Aside from constantly vying for status, both for themselves and for their gangs, they tend to avoid open mass confrontations with rival troops, instead relying on surprise attacks. The purpose of raids made by the male gangs on neighboring communities is evidently to kill or drive out their members and acquire new territory. There is no certain way to decide on the basis of existing knowledge whether chimpanzees and humans inherited their pattern of territorial aggression from a common ancestor or whether they evolved it independently in response to parallel pressures of natural selection and opportunities encountered in the African homeland. From the remarkable similarity in behavioral detail between the two species, however, and if we use the fewest assumptions required to explain it, a common ancestry seems the more likely choice.

Wars past, present, future

Humans and chimpanzees are intensely territorial. That is the apparent population control hardwired into their social systems. What the events were that occurred in the origin of the chimpanzee and human lines—before the chimpanzee-human split of 6 million years ago—can only be speculated. It's believed that the evidence best fits the following sequence. The original limiting factor, which intensified with the introduction of group hunting for animal protein, was food. Territorial behavior evolved as a device to sequester the food supply. Expansive wars and annexation resulted in enlarged territories and favored genes that prescribe group cohesion, networking, and the formation of alliances.

For hundreds of millennia, the territorial imperative gave stability to the small, scattered communities of *Homo sapiens*, just as they do today in the small, scattered populations of surviving hunter-gatherers. During this long period, randomly spaced extremes in the environment alternately increased and decreased the population size so that it could be contained within territories. These demographic shocks led to forced emigration or aggressive expansion of territory size by conquest, or both together. They also raised the value of forming alliances outside of kin-based networks in order to subdue other neighboring groups.

Ten thousand years ago, at the dawn of the Neolithic era, the agricultural revolution began to yield vastly larger amounts of food from cultivated crops and livestock, allowing rapid growth in human populations. But that advance did not change human nature. People simply increased their numbers as fast as the rich new resources allowed. As food again inevitably became the limiting factor, they obeyed the territorial imperative. Their descendants have never changed. At the present time, we are still fundamentally the same as our hunter-gatherer ancestors, but

with more food and larger territories. Region by region, recent studies show, the populations have approached a limit set by the supply of food and water. And so it has always been for every tribe, except for the brief periods after new lands were discovered and their indigenous inhabitants displaced or killed.

The struggle to control vital resources continues globally, and it is growing worse. The problem arose because humanity failed to seize the great opportunity given it at the dawn of the Neolithic era. It might then have halted population growth below the constraining minimum limit. As a species we did the opposite, however. There was no way for us to foresee the consequences of our initial success. We simply took what was given us and continued to multiply and consume in blind obedience to instincts inherited from our humbler, more brutally constrained Paleolithic ancestors.

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