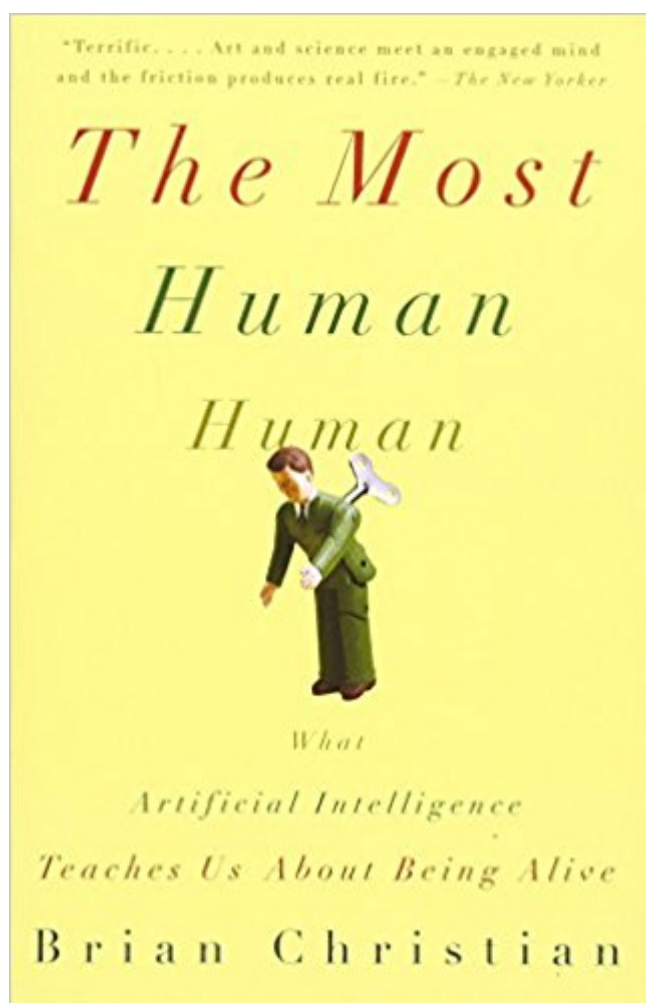


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# The Most Human Human: What Artificial Intelligence Teaches Us About Being Alive



## Synopsis

Each year, the AI community convenes to administer the famous (and famously controversial) Turing test, pitting sophisticated software programs against humans to determine if a computer can think. The machine that most often fools the judges wins the Most Human Computer Award. But there is also a prize, strange and intriguing, for the Most Human Human. Brian Christian—a young poet with degrees in computer science and philosophy—was chosen to participate in a recent competition. This playful, profound book is not only a testament to his efforts to be deemed more human than a computer, but also a rollicking exploration of what it means to be human in the first place.

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## Customer Reviews

Starred Review. In a fast-paced, witty, and thoroughly winning style, Christian documents his experience in the 2009 Turing Test, a competition in which judges engage in five-minute instant-message conversations with unidentified partners, and must then decide whether each interlocutor was a human or a machine. The program receiving the most "human" votes is dubbed the "most human computer," while the person receiving the most votes earns the title of "most human human." Poet and science writer Christian sets out to win the latter title and through his quest, investigates the nature of human interactions, the meaning of language, and the essence of what sets us apart from machines that can process information far faster than we can. Ranging from philosophy through the construction of pickup lines to poetry, Christian examines what it means to

be human and how we interact with one another, and with computers as equalsâvia automated telephone menus and within the medical establishment, for example. This fabulous book demonstrates that we are capable of experiencing and sharing far deeper thoughts than even the best computersâand that too often we fail to achieve the highest level of humanness. (Mar.) (c) Copyright PWxyz, LLC. All rights reserved. --This text refers to an out of print or unavailable edition of this title.

**\*Starred Review\*** Each year humans and computers square off for the Turing test, which Christian describes as a kind of speed dating via instant messaging, with five minutes to prove which is human. In 2009, Christian traveled to Brighton, England, to compete in a contest matching four humans and four computers. Christian chronicles his preparation and time spent devising strategies to trump the chatbot computers that can imitate humans. Along the way, he draws on philosophy, neurology, linguistics, and computer science, recalling chess master Garry Kasparov losing a match to IBM's Deep Blue computer and more recent developments in artificial intelligence. He explores how computers have challenged our bias toward the left hemisphere of the brain (logic) versus the right hemisphere (emotions) and how he and others have come to a deeper appreciation of emotional intelligence. He laments how so many jobs have trained employees with limited scripts that render them human chatbots. Christian intersperses interviews and musings on poetry and literature, observations on computer science, and excerpts from post-Turing test conversations for a fascinating exploration of what it means to be human. This book will surely change the way readers think about their conversations. --Vanessa Bush --This text refers to an out of print or unavailable edition of this title.

The book was recommended by a friend. I don't remember reading a non-fiction book that was so thought provoking and insightful. I have been working in the IT Space for over 20 years, and I found myself learning new aspects to issues I thought I knew. For me this book was a combination work-related and pleasure read, It is a fascinating view to the world that affects everyone, and it is not overly technical or scientific. I would recommend it to anyone.

An excellent read for computer science nerds, psychology nerds, sociology nerds, linguistics nerds, or philosophy nerds. Pretty much anybody who likes thinking about how people interact with each other

So much more than just the Turing test and chatbots. What does it to be "human" and "real": definitions that are becoming more blurry each passing day living with technology literally every waking hour.

This book brings in information from a wide variety of fields to create an interesting and engaging story about who we are, how we communicate, and what makes us human. This is a very thought provoking book with lots of surprising insights. Highly recommend.

Broadly educated in poetry and computers and deeply immersed in philosophy, Brian Christian writes about his becoming *The Most Human Human*. The depth and breadth of his exposition, the importance of the idea -- how will we know if machines become humanly intelligent -- and the topic of a Turing Test Contest, make for a wonderful read. His writing is charming, elegant, guaranteed to inform, and sure to intrigue. Mr. Christian's central theme is his participation in a Turing Test contest created by Hugh Loebner and Robert Epstein ([...]), an idea originated by the British computer genius Alan Turing. Turing proposed that a computer is intelligent when a person (a "judge") typing and receiving notes both from another person and from a computer cannot tell which correspondent is the human. Each year since 1991, the Loebner Prize has been awarded to the computer program that best fools the judges. A corresponding prize goes to the most human human; the person, among several, who judges rate most certainly to be a human. Mr. Christian won this award in 2009. Mr. Christian, more often than not, subordinates his description of the contest itself to the subtitle of his book -- "*What It Means to Be Alive*." In short, interrelated sections that show his intense preparation for the Loebner competition, he relates computer contexts and our daily lives. I particularly liked his treatment of the concept "book" as applied to Gary Kasparov's chess match with IBM's Deep Blue Computer algorithm. Chess, as played by man and machine, includes openings and endings that can be "memorized" -- this is the "book" -- the previous established series of chess moves that humans and machines store in their memories. Thus, oftentimes, it is only in the middle game that chess skills come into play. Mr. Christian wonderfully shows us how the "book" concept is of general human importance, concluding, "And the book, for me, becomes a metaphor for the whole of life." He similarly wows readers with his discussion of data compression. No less interesting are his other tales and insights. For example, he retells the story of Professor Kevin Warwick of the University of Reading who, in the late 1990s and early 2000s, had various electronic devices implanted in his arm. Among these devices, the professor used active ultrasonic sensors to mimic sonar as his sixth sense -- he could "feel" objects without

touching them. With another implanted device, Warwick remotely communicated with his wife who also had electronic implants: this was the first ever purely electronic communication conducted between two human nervous systems. Beyond these few examples, Mr. Christian enlightens us as to how computer programs have trouble with "bargain-in" conversations, why "apricot" and "prescient" have the same root, and more. Although Mr. Christian doesn't explicitly draw the conclusion, one can infer from his writing that Alan Turing was wrong. The Turing Test seems unable to provide more than a superficial evaluation of intelligence. A machine with no "life," body, history, or actual experiences seems quite unable ever to convince us that it possesses a true intellect by winning this sort of contest. Still, if the Turing Test is ultimately a poor barometer of computer capability, the greater question remains: "can machines ever become humanly intelligent? Mr. Christian barely offers his opinion on this matter, only writing near the very end that, "Some people imagine the future as a kind of heaven... [e.g. Ray Kurzweil] ... Others ... as a kind of hell," [e.g. The Matrix]. I'm no futurist, but I ... think of ... AI as a kind of purgatory: the place where the flawed, good-hearted go to be purified -- and tested -- and to come out better on the other side."I, and most probably other readers, would have liked more such commentary, to know what Mr. Christian thinks about humankind's future in the face of rising machine intelligence. This is an under-appreciated concern that deserves our awareness. Interestingly, the 2009 Loebner Prize competition was a perfect opportunity to focus our attention. The other winner that year -- the person who won the most human computer award -- was David Levy, who also wrote *Love + Sex with Robots*, which I use in my Queens College, CUNY Sociology course Posthuman Society. Levy argues that by 2050, humans will be conversing with, forming social relations with, having sex with, and perhaps even marrying with autonomous robots. Surely, if this happens -- and Levy's strong credentials make him a credible prognosticator -- we will be forced to conclude that machines have become intelligent, no matter how strange or imperfect their programming may seem. And with this, humankind's future will be forever changed -- I don't think for the better -- even if we survive the experience. Of course, Levy could be wrong. Producing the advanced robots that he envisions may require too enormous an effort, if it's even possible. But I don't think Levy is wrong. The New York Times (8/16/11), for example, reports that Stanford University will offer a free online course in AI this fall that is taught by two leading experts. More than 58,000 people worldwide have already registered for the course, which was only advertised virally. Why such great interest? Because people are curious, in part, but also because NASA needs intelligent robots to explore space. Our military has deployed intelligent machines to fight in Afghanistan. Business wants smart robots to manufacture cheaper and better goods. Google is spearheading the production of robotically driven cars. Japan seeks intelligent

robots to care for its aging population. And, sharing love and sex with machines is already well underway. Smart robots are going to solve many human problems but also create others, with dramatic consequences, a future that I believe is inevitable. That said, my comments should in no way detract from Brian Christian's marvelous book. He is a gifted informative writer with a keen eye for the human condition. I look forward with great anticipation to curling up with his next provocative volume.

[This is an excerpt from a full review to appear in *Skeptical Inquirer*] Mathematician Alan Turing is famous for a number of things, but probably the one that comes most easily to mind is the famous Turing test, a simple procedure for allegedly determining whether a computer is thinking like a human being -- or at least, whether a computer can effectively fool us into such a conclusion. Turing predicted that by the year 2000 computers would be able to trick human judges into thinking they were talking to a fellow human instead of a machine at least 30% of the time, if the conversation lasted for about five minutes. This has always seemed to me to put the bar so low as to make the entire enterprise spectacularly uninteresting. Sure enough, reading Brian Christian's *The Most Human Human* confirmed my impression that the so-called Turing test is one of the most hyped ideas in both artificial intelligence and philosophy of mind. The issue, as Christian makes abundantly clear throughout the book, is not whether programmers can devise a clever enough trick that can fool some people some of the time (and for a short period at that), but whether it is possible, or even if it makes sense to try, to equip computers with something akin to human intelligence and thought (please notice that I do not subscribe to non-physicalist views of human consciousness). Christian seems convinced that the key to artificial intelligence is to be found in the implications of Shannon's information theory, which deals among other things with the compression of semantic content. As Christian puts it at the end of the book: "If a computer could ... compress English optimally, it'd know enough about the language that it would know the language. We'd have to consider it intelligent -- in the human sense of the word" (emphasis in the original). Well, in some sense of knowing and intelligence this may be true. But would we have succeeded in creating an artificial intelligence substantially analogous to the human variety? Would that computer be conscious of knowing the English language? There are serious reasons to doubt it. More likely, we would have created something different, and we might need to broaden our very understanding of what "thinking" means.

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