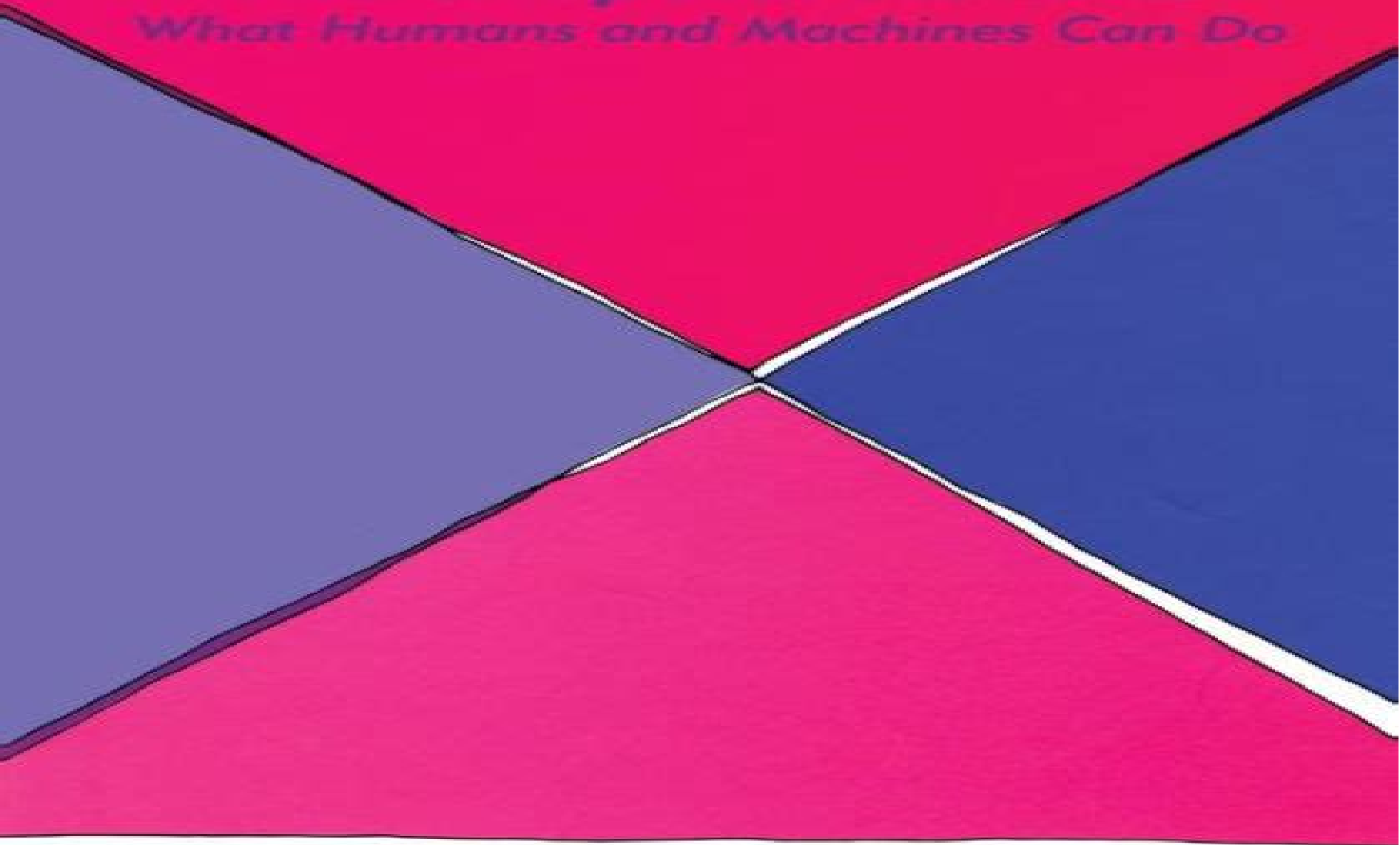


Harry Collins

Martin Kusch

# ***The Shape of Actions***

*What Humans and Machines Can Do*



# Shape Of Actions What Humans And Machines Can Do

**Lucille Alice Suchman**



## **Shape Of Actions What Humans And Machines Can Do:**

*The Shape of Actions* Harry Collins, Martin Kusch, 1999-01-05 What can humans do What can machines do How do humans delegate actions to machines In this book Harry Collins and Martin Kusch combine insights from sociology and philosophy to provide a novel answer to these increasingly important questions The authors begin by distinguishing between two basic types of intentional behavior which they call polymorphic actions and mimeomorphic actions Polymorphic actions such as writing a love letter are ones that community members expect to vary with social context Mimeomorphic actions such as swinging a golf club do not vary Although machines cannot act they can mimic mimeomorphic actions Mimeomorphic actions are thus the crucial link between what humans can do and what machines can do Following a presentation of their detailed categorization of actions the authors apply their approach to a broad range of human machine interactions and to learning Key examples include bicycle riding and the many varieties of writing machines They also show how their theory can be used to explain the operation of organizations such as restaurants and armies Finally they look at a historical case the technological development of the air pump applying their categorization of actions to the processes of mechanization and automation Automation they argue can occur only where what we want to bring about can be brought about through mimeomorphic action

*The Shape of Actions* Harry M. Collins, Martin Kusch, 1999-01-05 What can humans do What can machines do How do humans delegate actions to machines In this book Harry Collins and Martin Kusch combine insights from sociology and philosophy to provide a novel answer to these increasingly important questions The authors begin by distinguishing between two basic types of intentional behavior which they call polymorphic actions and mimeomorphic actions Polymorphic actions such as writing a love letter are ones that community members expect to vary with social context Mimeomorphic actions such as swinging a golf club do not vary Although machines cannot act they can mimic mimeomorphic actions Mimeomorphic actions are thus the crucial link between what humans can do and what machines can do Following a presentation of their detailed categorization of actions the authors apply their approach to a broad range of human machine interactions and to learning Key examples include bicycle riding and the many varieties of writing machines They also show how their theory can be used to explain the operation of organizations such as restaurants and armies Finally they look at a historical case the technological development of the air pump applying their categorization of actions to the processes of mechanization and automation Automation they argue can occur only where what we want to bring about can be brought about through mimeomorphic action

*Configuring Internal Controls for Software as a Service* Chong Ee, 2018-09-12 This book taps into an inherent paradox with the ease of reliance on external cloud providers to provide robust functionality and regular enhancements comes as their very own audited service organization control SOC reports are quick to point out the need for client organizations to devise and sustain a system of effective internal controls By addressing the practitioner in the field it provides tangible cost effective and thus pragmatic means to mitigate key risks whilst leveraging built in cloud

capabilities and overarching principles of effective system design      **Social Practices and Dynamic Non-Humans** Cecily Maller, Yolande Strengers, 2018-07-20 The robots are coming So too is the age of automation the march of invasive species more intense natural disasters and a potential cataclysm of other unprecedented events and phenomena of which we do not yet know and cannot predict This book is concerned with how to account for these non humans and their effects within theories of social practice In particular this provocative collection tackles contemporary debates about the roles relations and agencies of constantly changing disruptive intelligent or otherwise dynamic non humans such as weather animals and automated devices In doing so contributors challenge and take forward existing understandings of dynamic non humans in theories of social practice by reconsidering their potential roles in everyday life The book will benefit sociology geography science and technology studies and human and animal computer interaction design scholars seeking to make sense of the complex entanglement of non human phenomena and things in the performance of social practices      **Berlin Keys to the Sociology of Technology** Cornelius Schubert, Ingo Schulz-Schaeffer, 2023-08-28 This volume offers a cross section of a good fifteen years of research in the sociology of technology and innovation at the Department of Sociology of Technology headed by Werner Rammert at the TU Berlin All contributions in this volume were initiated or discussed there and thus bear in a certain sense a Berlin signature not in the sense of a clearly delimited scientific school but rather in the form of an open discussion group with different but mutually related focal points The Berlin Key which gives it its title imposes on all its users the program of action objectified in its mechanism User if you want to take the key back to yourself after unlocking the door and go your way you must lock the door again first Unlike that Berlin key the Berlin Keys to the Sociology of Technology presented here offer a set of keys to different but interconnected conceptual and methodological approaches in social science research on technology and innovation      *Autistic Company* Ruud Hendriks, 2012 Social interactions of autistic and non autistic persons are intriguing In all sorts of situations people with autism are part of the daily life of those around them Such interactions exist despite the lack of familiar ways of attuning to one another In *Autistic Company* the anthropologist and philosopher Ruud Hendriks himself trained as a care worker for young people with autism investigates what alternative means are sometimes found by autistic and non autistic people to establish a shared existence Unprecedented in scholarly work on autism the book also reflects on how to talk about these unusual ways of getting on together Drawing on methods from both the arts and the social sciences this study covers very diverse sources ranging from literary works to factual writing on autism in science and advisory literature and from autobiographical accounts to ethnographic observations in a home for autistic people Putting familiar concepts to a test *Autistic Company* wrenches and fiddles with the very distinctions that constitute our sense of self By doing so Hendriks succeeds in getting closer both to autistic and non autistic extremes showing how thin the division between us and them really is L W Nauta in *Krisis*      *The Moral Status of Technical Artefacts* Peter Kroes, Peter-Paul Verbeek, 2014-01-08 This book considers the question to what extent does it make sense to qualify

technical artefacts as moral entities The authors contributions trace recent proposals and topics including instrumental and non instrumental values of artefacts agency and artefactual agency values in and around technologies and the moral significance of technology The editors introduction explains that as agents rather than simply passive instruments technical artefacts may actively influence their users changing the way they perceive the world the way they act in the world and the way they interact with each other This volume features the work of various experts from around the world representing a variety of positions on the topic Contributions explore the contested discourse on agency in humans and artefacts defend the Value Neutrality Thesis by arguing that technological artefacts do not contain have or exhibit values or argue that moral agency involves both human and non human elements The book also investigates technological fields that are subject to negative moral valuations due to the harmful effects of some of their products It includes an analysis of some difficulties arising in Artificial Intelligence and an exploration of values in Chemistry and in Engineering The Moral Status of Technical Artefacts is an advanced exploration of the various dimensions of the relations between technology and morality

Ubiquitous and Pervasive Commerce George Roussos,2006-02-20 At the core of this book is the interplay between technological and business innovation and social practice Although the benefits of 50 years of rapid advances in digital telecommunications and computing technology have not benefited everyone equally they have nevertheless transformed almost every aspect of the way we live One area where technology has had a clear impact is in the way we conduct business The rate of change that brings about modernity has been considerably strengthened by technological advances applied to product manufacturing distribution financing and management which arguably form the substrate for globalization and consumerism It is thus no surprise that businesses closely monitor advances in technology and invest considerable resources in exploring possible new applications and market opportunities Yet consumers acceptance of new ways of buying and selling depends as much on business and technology as on our society's culture and the culture of the material environment that defines our values sensibilities and thus our commitments Moreover the rate of technological innovation is such that to the consumer technology implementation is fully opaque Nonetheless opportunities to carry out commerce in novel ways also introduce risk to established social structures conventions and institutions In modernity risk management is one of the core functions of society and to be successful in this societies depend on their trust of experts Experts take risks on behalf of society and are responsible for evaluating the full extent of a particular set of hazards including those associated with a particular technology

**The Shape of Future Technology** Peter Brödner,2012-12-06 Mike Cooley One of the most remarkable features of modern industrial society is the gap between that which technology could provide for society its potential and that which it actually does provide for society its reality We have for example complex control systems which can guide a missile to another continent with extraordinary accuracy yet the blind and the disabled have to stagger around our cities in very much the same way as they did in mediaeval times There are advanced communication systems enabling messages to be sent

around the world in a fraction of a second but it now takes longer to send an ordinary letter from Washington to New York than it did in the days of the stage coach Such a growing chasm between potential and reality is giving rise to a thorough questioning of many of the orthodoxies in these areas and the priorities on which they are based Similar contradictions even if at this stage less obvious and dramatic abound in the field of manufacturing technology There we find technologies which have the potential of liberating human beings from soul destroying routine backbreaking tasks and leave them free to engage in more creative work but which in reality often end up reducing the human being to a mere machine appendage acted upon by the technology and becoming a passive pathetic element in the productive system rather than a creative dynamic human being

*Philosophy, Computing and Information Science* Ruth Hagengruber, Uwe Riss, 2015-10-06 Over the last four decades computers and the internet have become an intrinsic part of all our lives but this speed of development has left related philosophical enquiry behind Featuring the work of computer scientists and philosophers these essays provide an overview of an exciting new area of philosophy that is still taking shape

**Human-Machine Reconfigurations** Lucille Alice Suchman, 2007 Publisher description [Dimensions of Personhood](#) Heikki Ikäheimo, Arto Laitinen, 2007 This collection of original articles considers the question What are persons The book aims first of all to clarify the nature of the query and its relation to associated questions such as the nature of the human animal the persistence and unity of persons and other philosophical conditions

**Epistemic Encounters** Henrik Bruun, 2000 **Memory and Action Selection in Human-Machine Interaction** Munéo Kitajima, 2016-01-05 The first goal of this book is to extend Two Minds originating from behavioral economics to the domain of interaction where the time dimension has to be dealt with rigorously in human machine interaction it is of crucial importance how synchronization between conscious processes and unconscious processes is established for a sense of smoothness and how memory processes and action selection processes are coordinated The first half this book describes the theory in detail The book begins by outlining the whole view of the theory consisting of action selection processes and memorization processes and their interactions Then a detailed description for action selection processes theorized as a nonlinear dynamic human behavior model with real time constraints is provided followed by a description for memorization processes Also implications of the theory to human machine interactions are discussed The second goal of this book is to provide a methodology to study how Two Minds works in practice when people use interactive systems The latter half of this book describes theory practices in detail A new methodology called Cognitive Chrono Ethnography CCE is introduced which adds the time dimension to Hutchins Cognitive Ethnography in order to practice know the users systematically by designing user studies based on a simulation of users mental operations controlled by Two Minds The author then shows how CCE has been applied to understanding the ways in which people navigate in real physical environments by walking and by car respectively and explores the possibility of applying CCE to predict people's future needs This is not for understanding how people use interfaces at present but to predict how people want to use the interfaces

in the future given they are currently using them in a certain way Finally the book concludes by describing implications of human machine interactions that are carried out while using modern artefacts for people s cognitive development from birth on the basis of the theories of action selection and memorization Interdisciplinary Approaches to the Structure and Performance of Interdependent Autonomous Human Machine Teams and Systems (A-HMT-S) William Frere Lawless,Donald

Sofge,Daniel M. Lofaro,2023-03-30 **Occupational Ergonomics** Waldemar Karwowski,William S. Marras,2003-03-26

Occupational Ergonomics Principles of Work Design focuses on the fundamentals in ergonomics design and evaluation Divided into two parts Part I covers the background for the discipline and profession of ergonomics and offers an international perspective on ergonomics Part II describes the foundations of ergonomics knowledge including fundament

**Understanding the Human Machine** Max E. Valentinuzzi,2004 For undergraduate biomedical engineering students Favors formation rather than mere information based on suggested exercises study subjects and questions Contains brief historical shots supplying background material and spicy insights Makes enjoyable reading with its light style and humor

*Human Action, Deliberation and Causation* J.A.M Bransen,S.E. Cuypers,2012-12-06 There is an interesting and far reaching disagreement between Smith and Frederick Stoutland In his The Real Reasons Stoutland argues that one of the mistakes that turned the belief desire model of action into the received view is the underlying commitment to the idea that there is an underlying unity to all action explanations According to Stoutland the unity is no deeper than the superficial fact that actions are responses of agents to the world and the challenge for the philosophy of action is to make sense of that fact without falling victim to the un fruitful assumption that reasons should be understood as the normative content of determinate representational inner states of agents Stoutland suggests an alternative according to which reasonable agents possess the know how to respond appropriately to the normative import of the external situations they find themselves in These situations are Stout land claims the real reasons Stoutland raises an important issue If beliefs and desires should be understood as reasons as introducing normative constraints that de serve respect it seems we are bound to distinguish between on the one hand the content of our beliefs and desires and on the other hand their objects Moreover it seems we have good reasons to believe that the content of our beliefs and desires derives its normative import qua normative import from the objects of our beliefs and desires Human-Machine Learning Corinne Schillizzi,2023-10-22 This book explores AI

ethics surveys system thinking and offers actionable tactics for aligning with engineering and product teams in the tech realm Its engaging narrative provides a roadmap for iterative designing in loops product development in today s AI driven industry John Maeda Author of How To Speak Machine Forget to design a solution once and for all with Machine Learning it simply doesn t work Since learning is inherently dynamic designers must harness feedback loops to create solutions that adapt to changing environments and data Discover how to work backward from humans partner with ML field experts build effective feedback loop mechanisms and design data aware interactions With Machine Learning designers are crucial in

keeping humans and society at the center The book guides the reader in understanding the challenges and peculiarities of designing these systems It provides methods and tools to apply a human centered approach to problem framing and solving Human Machine learning is a design paradigm that enables humans and machines to learn and adapt Shifting our perspective from a growth to an adaptive mindset the book presents the Human Machine Learning paradigm as a way to tackle complex problems and drive positive change systemically Six things you will find in this book 1 The role of feedback in shaping human and machine learning 2 The role of designers in working backward from human needs in ML projects 3 How to design with and for data 4 How to design feedback loops at three levels of interactions individual organizational and societal 5 A systemic perspective on designing with ML with a humanity centered approach 6 How to design for Human Machine Continual Learning

*Human-Machine Shared Contexts* William Lawless, Ranjeev Mittu, Donald Sofge, 2020-06-10

*Human Machine Shared Contexts* considers the foundations metrics and applications of human machine systems Editors and authors debate whether machines humans and systems should speak only to each other only to humans or to both and how The book establishes the meaning and operation of shared contexts between humans and machines it also explores how human machine systems affect targeted audiences researchers machines robots users and society as well as future ecosystems composed of humans and machines This book explores how user interventions may improve the context for autonomous machines operating in unfamiliar environments or when experiencing unanticipated events how autonomous machines can be taught to explain contexts by reasoning inferences or causality and decisions to humans relying on intuition and for mutual context how these machines may interdependently affect human awareness teams and society and how these machines may be affected in turn In short can context be mutually constructed and shared between machines and humans The editors are interested in whether shared context follows when machines begin to think or like humans develop subjective states that allow them to monitor and report on their interpretations of reality forcing scientists to rethink the general model of human social behavior If dependence on machine learning continues or grows the public will also be interested in what happens to context shared by users teams of humans and machines or society when these machines malfunction As scientists and engineers think through this change in human terms the ultimate goal is for AI to advance the performance of autonomous machines and teams of humans and machines for the betterment of society wherever these machines interact with humans or other machines This book will be essential reading for professional industrial and military computer scientists and engineers machine learning ML and artificial intelligence AI scientists and engineers especially those engaged in research on autonomy computational context and human machine shared contexts advanced robotics scientists and engineers scientists working with or interested in data issues for autonomous systems such as with the use of scarce data for training and operations with and without user interventions social psychologists scientists and physical research scientists pursuing models of shared context modelers of the internet of things IOT systems of systems scientists and engineers and



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## **Table of Contents Shape Of Actions What Humans And Machines Can Do**

1. Understanding the eBook Shape Of Actions What Humans And Machines Can Do
  - The Rise of Digital Reading Shape Of Actions What Humans And Machines Can Do
  - Advantages of eBooks Over Traditional Books
2. Identifying Shape Of Actions What Humans And Machines Can Do
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Shape Of Actions What Humans And Machines Can Do
  - User-Friendly Interface
4. Exploring eBook Recommendations from Shape Of Actions What Humans And Machines Can Do
  - Personalized Recommendations
  - Shape Of Actions What Humans And Machines Can Do User Reviews and Ratings
  - Shape Of Actions What Humans And Machines Can Do and Bestseller Lists
5. Accessing Shape Of Actions What Humans And Machines Can Do Free and Paid eBooks
  - Shape Of Actions What Humans And Machines Can Do Public Domain eBooks
  - Shape Of Actions What Humans And Machines Can Do eBook Subscription Services
  - Shape Of Actions What Humans And Machines Can Do Budget-Friendly Options

6. Navigating Shape Of Actions What Humans And Machines Can Do eBook Formats
  - ePub, PDF, MOBI, and More
  - Shape Of Actions What Humans And Machines Can Do Compatibility with Devices
  - Shape Of Actions What Humans And Machines Can Do Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Shape Of Actions What Humans And Machines Can Do
  - Highlighting and Note-Taking Shape Of Actions What Humans And Machines Can Do
  - Interactive Elements Shape Of Actions What Humans And Machines Can Do
8. Staying Engaged with Shape Of Actions What Humans And Machines Can Do
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Shape Of Actions What Humans And Machines Can Do
9. Balancing eBooks and Physical Books Shape Of Actions What Humans And Machines Can Do
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Shape Of Actions What Humans And Machines Can Do
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Shape Of Actions What Humans And Machines Can Do
  - Setting Reading Goals Shape Of Actions What Humans And Machines Can Do
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Shape Of Actions What Humans And Machines Can Do
  - Fact-Checking eBook Content of Shape Of Actions What Humans And Machines Can Do
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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