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# protocol

alexander r. galloway



how control exists after decentralization

# Protocol How Control Exists After Decentralization

## Leonardos

**Erkki Huhtamo**



## **Protocol How Control Exists After Decentralization Leonardos:**

**Protocol** Alexander R. Galloway, 2006-02-17 How Control Exists after Decentralization Is the Internet a vast arena of unrestricted communication and freely exchanged information or a regulated highly structured virtual bureaucracy In Protocol Alexander Galloway argues that the founding principle of the Net is control not freedom and that the controlling power lies in the technical protocols that make network connections and disconnections possible He does this by treating the computer as a textual medium that is based on a technological language code Code he argues can be subject to the same kind of cultural and literary analysis as any natural language computer languages have their own syntax grammar communities and cultures Instead of relying on established theoretical approaches Galloway finds a new way to write about digital media drawing on his backgrounds in computer programming and critical theory Discipline hopping is a necessity when it comes to complicated socio technical topics like protocol he writes in the preface Galloway begins by examining the types of protocols that exist including TCP IP DNS and HTML He then looks at examples of resistance and subversion hackers viruses cyberfeminism Internet art which he views as emblematic of the larger transformations now taking place within digital culture Written for a nontechnical audience Protocol serves as a necessary counterpoint to the wildly utopian visions of the Net that were so widespread in earlier days

Protocol Alexander R. Galloway, 2006-02-17 How Control Exists after Decentralization Is the Internet a vast arena of unrestricted communication and freely exchanged information or a regulated highly structured virtual bureaucracy In Protocol Alexander Galloway argues that the founding principle of the Net is control not freedom and that the controlling power lies in the technical protocols that make network connections and disconnections possible He does this by treating the computer as a textual medium that is based on a technological language code Code he argues can be subject to the same kind of cultural and literary analysis as any natural language computer languages have their own syntax grammar communities and cultures Instead of relying on established theoretical approaches Galloway finds a new way to write about digital media drawing on his backgrounds in computer programming and critical theory Discipline hopping is a necessity when it comes to complicated socio technical topics like protocol he writes in the preface Galloway begins by examining the types of protocols that exist including TCP IP DNS and HTML He then looks at examples of resistance and subversion hackers viruses cyberfeminism Internet art which he views as emblematic of the larger transformations now taking place within digital culture Written for a nontechnical audience Protocol serves as a necessary counterpoint to the wildly utopian visions of the Net that were so widespread in earlier days

Media Technologies and Posthuman Intimacy Jan Stasienko, 2021-12-16 Constructing a theory of intimacy describing processes occurring between a human subject and information creations Jan Stasienko shows in what way and in what phases that relationship is built and what its nature is He discusses technologies and genres related to the construction of a new television message teleprompter interactive television forms appearing both in the analogue and digital eras composition of

the film image and specificity of cinematic technologies peep show hybrid animation digital visual effects Also new media technologies and genres will be discussed for example aspects relating to computer games and Web portals making video materials available This diversity is prompted by the desire to show that the building of intimacy protocols is not the domain of the digital era and on the other hand that the posthumanism of media apparatus is a wide ranging problem i e the area encompasses various vehicles findable throughout various historical periods

Understanding Digital Racism Sanjay Sharma, 2023-11-13 Digital technologies are proliferating and transforming racism complicating our understanding and making contemporary racism increasingly harder to challenge Digital racism takes many forms such as viral memes circulating via social media platforms the swarming of networked users targeting people of colour hidden algorithmic classification and sorting and the racial profiling of policing and surveillance systems The variance and complexity of technologically mediated racisms begs the question of whether adequate attention has been paid to digital processes and environments through which race materializes Understanding Digital Racism analyzes the digital realm as a race making technology by exploring the rise dissemination and evolution of contemporary racism Sanjay Sharma offers an innovative approach for understanding how racism as informational and im material post racial phenomena is manifested and remade through digital technologies Digital racism is grasped through foregrounding the sociotechnical entanglements of racism and digital technologies An analysis of networked relations information flows subjectivation and affects are critical to addressing the production of digital racism

*What Algorithms Want* Ed Finn, 2018-10-09 The gap between theoretical ideas and messy reality as seen in Neal Stephenson Adam Smith and Star Trek We depend on we believe in algorithms to help us get a ride choose which book to buy execute a mathematical proof It s as if we think of code as a magic spell an incantation to reveal what we need to know and even what we want Humans have always believed that certain invocations the marriage vow the shaman s curse do not merely describe the world but make it Computation casts a cultural shadow that is shaped by this long tradition of magical thinking In this book Ed Finn considers how the algorithm in practical terms a method for solving a problem has its roots not only in mathematical logic but also in cybernetics philosophy and magical thinking Finn argues that the algorithm deploys concepts from the idealized space of computation in a messy reality with unpredictable and sometimes fascinating results Drawing on sources that range from Neal Stephenson s *Snow Crash* to Diderot s *Encyclop die* from Adam Smith to the Star Trek computer Finn explores the gap between theoretical ideas and pragmatic instructions He examines the development of intelligent assistants like Siri the rise of algorithmic aesthetics at Netflix Ian Bogost s satiric Facebook game *Cow Clicker* and the revolutionary economics of Bitcoin He describes Google s goal of anticipating our questions Uber s cartoon maps and black box accounting and what Facebook tells us about programmable value among other things If we want to understand the gap between abstraction and messy reality Finn argues we need to build a model of algorithmic reading and scholarship that attends to process spearheading a new experimental humanities

**Hyperconnectivity and**

**Digital Reality** Kathrin Otrell-Cass, 2019-08-23 This book addresses the topic of hyperconnectivity by building on expanding and critically examining issues that have to do with information communication technology ICT and networked societies The book explores questions relating to attention and consciousness techno capitalism and communicative action taking Adopting different philosophical angles to assess the challenges we face due to our entanglement with hyperconnected technologies the book studies performance and performativity in a digitised world by considering the unfolding of our onlife and by looking at what this means to educated future scientists and engineers in a hyperconnected world The book further discusses digital activities as the new constructs of ourselves and poses questions about how much literacy is needed for us not to be enslaved by those constructs The book also explores the challenges of hyperconnectivity and the health sector to showcase the vulnerabilities we are increasingly exposed to It makes clear that since the boundaries between on and offline are becoming increasingly blurred we will require new flexible frameworks that reconsider what it means to be human in a hyperconnected world

**Reflections on Programming Systems** Liesbeth De Mol, Giuseppe Primiero, 2019-01-10 This book presents a historical and philosophical analysis of programming systems intended as large computational systems like for instance operating systems programmed to control processes The introduction to the volume emphasizes the contemporary need of providing a foundational analysis of such systems rooted in a broader historical and philosophical discussion The different chapters are grouped around three major themes The first concerns the early history of large systems developed against the background of issues related to the growing semantic gap between hardware and code The second revisits the fundamental issue of complexity of large systems dealt with by the use of formal methods and the development of grand designs like Unix Finally a third part considers several issues related to programming systems in the real world including chapters on aesthetical ethical and political issues This book will interest researchers from a diversity of backgrounds It will appeal to historians philosophers as well as logicians and computer scientists who want to engage with topics relevant to the history and philosophy of programming and more specifically the role of programming systems in the foundations of computing

**Wirelessness** Adrian Mackenzie, 2010-10-08 An account of the sensations associated with being entangled with wireless technologies that draws on the philosophical techniques of William James's radical empiricism How has wirelessness being connected to objects and infrastructures without knowing exactly how or where become a key form of contemporary experience Stretching across routers smart phones netbooks cities towers Guangzhou workshops service agreements toys and states wireless technologies have brought with them sensations of change proximity movement and divergence In Wirelessness Adrian Mackenzie draws on philosophical techniques from a century ago to make sense of this most contemporary postnetwork condition The radical empiricism associated with the pragmatist philosopher William James Mackenzie argues offers fresh ways for matching the disordered flow of wireless networks meshes patches and connections with felt sensations For Mackenzie entanglements with things gadgets infrastructures and services tendencies

fleeting nuances and peripheral shades of often barely registered feeling that cannot be easily codified symbolized or quantified mark the experience of wirelessness and this links directly to James's expanded conception of experience. Wirelessness designates a tendency to make network connections in different times and places using these devices and services. Equally it embodies a sensibility attuned to the proliferation of devices and services that carry information through radio signals. Above all it means heightened awareness of ongoing change and movement associated with networks, infrastructures, location and information. The experience of wirelessness spans several strands of media technological change and Mackenzie moves from wireless cities through signals, devices, networks, maps and products to the global belief in the expansion of wireless worlds.

**This Is Enlightenment** Clifford Siskin, William Warner, 2010-06-15 Debates about the nature of the Enlightenment date to the eighteenth century when Immanuel Kant himself addressed the question: What is Enlightenment? The contributors to this ambitious book offer a paradigm shifting answer to that now famous query. Enlightenment is an event in the history of mediation. Enlightenment, they argue, needs to be engaged within the newly broad sense of mediation introduced here: not only oral, visual, written and printed media, but everything that intervenes, enables, supplements or is simply in between. With essays addressing infrastructure and genres, associational practices and protocols, this volume establishes mediation as the condition of possibility for enlightenment. In so doing, it not only answers Kant's query, it also poses its own broader question: how would foregrounding mediation change the kinds and areas of inquiry in our own epoch? **This Is Enlightenment** is a landmark volume with the polemical force and archival depth to start a conversation that extends across the disciplines that the Enlightenment itself first configured.

**Digital Prohibition** Carolyn Guertin, 2012-04-26 The act of creation requires us to remix existing cultural content and yet recent sweeping changes to copyright laws have criminalized the creative act as a violation of corporate rights in a commodified world. Copyright was originally designed to protect publishers, not authors, and has now gained a stranglehold on our ability to transport, read, write, teach and publish digital materials. Contrasting Western models with issues of piracy as practiced in Asia, **Digital Prohibition** explores the concept of authorship as a capitalist institution and posits the Marxist idea of the multitude. Laetitia Negri and Michael Hardt and Paulo Virno as a new collaborative model for creation in the digital age. Looking at how digital culture has transformed unitary authorship from its book-bound parameters into a collective and dispersed endeavor, Dr Guertin examines process-based forms as diverse as blogs, Facebook, Twitter, performance art, immersive environments, smart mobs, hacktivism, tactical media, machinima, generative computer games like *Spore* and *The Sims*, and augmented reality.

**Architectural Intelligence** Molly Wright Steenson, 2022-11-01 Architects who engaged with cybernetics, artificial intelligence and other technologies poured the foundation for digital interactivity. In **Architectural Intelligence**, Molly Wright Steenson explores the work of four architects in the 1960s and 1970s who incorporated elements of interactivity into their work: Christopher Alexander, Richard Saul Wurman, Cedric Price and Nicholas Negroponte, and the MIT Architecture Machine.

Group all incorporated technologies including cybernetics and artificial intelligence into their work and influenced digital design practices from the late 1980s to the present day Alexander long before his famous 1977 book A Pattern Language used computation and structure to visualize design problems Wurman popularized the notion of information architecture Price designed some of the first intelligent buildings and Negroponte experimented with the ways people experience artificial intelligence even at architectural scale Steenson investigates how these architects pushed the boundaries of architecture and how their technological experiments pushed the boundaries of technology What did computational cybernetic and artificial intelligence researchers have to gain by engaging with architects and architectural problems And what was this new space that emerged within these collaborations At times Steenson writes the architects in this book characterized themselves as anti architects and their work as anti architecture The projects Steenson examines mostly did not result in constructed buildings but rather in design processes and tools computer programs interfaces digital environments Alexander Wurman Price and Negroponte laid the foundation for many of our contemporary interactive practices from information architecture to interaction design from machine learning to smart cities

**A Companion to Photography** Stephen Bull, 2020-02-03 The study of photography has never been more important A look at today's digital world reveals that a greater number of photographs are being taken each day than at any other moment in history Countless photographs are disseminated instantly online and more and more photographic images are earning prominent positions and garnering record prices in the rarefied realm of top art galleries Reflecting this dramatic increase in all things photographic A Companion to Photography presents a comprehensive collection of original essays that explore a variety of key areas of current debate around the state of photography in the twenty first century Essays are grouped and organized in themed sections including photographic interpretation markets popular photography documents and fine art and provide comprehensive coverage of the subject Representing a diversity of approaches essays are written by both established and emerging photographers and scholars as well as various experts in their respective areas A Companion to Photography offers scholars and professional photographers alike an essential and up to date resource that brings the study of contemporary photography into clear focus

**Algorithms** Tobias Matzner, 2023-10-02 Algorithms Technology Culture Politics develops a relational situated approach to algorithms It takes a middle ground between theories that give the algorithm a singular and stable meaning in using it as a central analytic category for contemporary society and theories that dissolve the term into the details of empirical studies The book discusses algorithms in relation to hardware and material conditions code data and subjects such as users programmers but also data doubles The individual chapters bridge critical discussions on bias exclusion or responsibility with the necessary detail on the contemporary state of information technology The examples include state of the art applications of machine learning such as self driving cars and large language models such as GPT The book will be of interest for everyone engaging critically with algorithms particularly in the social sciences media studies STS political theory or

philosophy With its broad scope it can serve as a high level introduction that picks up and builds on more than two decades of critical research on algorithms

**The Digital and Its Discontents** Aden Evens,Alexander R. Galloway,2024-02-27 A groundbreaking critique of the digital world that analyzes its universal technological foundations Whence that nagging sense that something in the digital is amiss that as wonderful as our devices are time spent on smartphones and computers leaves us sour enervated alienated The Digital and Its Discontents uniquely explains that worry and points us toward a more satisfying relationship between our digital lives and our nondigital selves one that requires a radical change in the way we incorporate technology into our lives Aden Evens analyzes universal technological principles in particular the binary logic to show that they encourage certain ways of thinking while making others more challenging or impossible What is out of reach for any digital machine is contingency the ontological principle that refuses every rule As humans engage ourselves and our world ever more through digital machines we are losing touch with contingency and so banishing from our lives the accidental and unexpected that fuel our most creative and novel possibilities for living Taking cues from philosophy rather than cultural or media theory Evens argues that the consequences of this erosion of contingency are significant yet often overlooked because the same values that make the digital seem so desirable also make contingency seem unimportant without contingency the digital is confined to what has already been thought and yet the digital s ubiquity has allowed it to disguise this inherent sterility Responsive only to desires that meet the demands of its narrow logic the digital requires its users to practice those same ideological dictates instituting a hegemony of thought and value sustained by the pervasive presence of digital mechanisms Interweaving technical and philosophical concepts The Digital and Its Discontents advances a powerful and urgent argument about the digital and its impact on our lives Retail e book files for this title are screen reader friendly

An Introduction to New Media and Cybercultures Pramod K. Nayar,2010-01-11 This introduction to cybercultures provides a cutting edge and much needed guide to the rapidly changing world of new media and communication Considers cyberculture and new media through contemporary race gender and sexuality studies and postcolonial theory Offers a clear analysis of some of the most complex issues in cybercultures including identity network societies new geographies and connectivity Includes discussions of gaming social networking geography net democracy aesthetics popular internet culture the body sexuality and politics Examines key questions in the political economy racialization gendering and governance of cyberculture

**Ethical Programs** James J. Brown,2015-09-09 Living in a networked world means never really getting to decide in any thoroughgoing way who or what enters your space your laptop your iPhone your thermostat your home With this as a basic frame of reference James J Brown s Ethical Programs examines and explores the rhetorical potential and problems of a hospitality ethos suited to a new era of hosts and guests Brown reads a range of computational strategies and actors including the general principles underwriting the Transmission Control Protocol TCP which determines how packets of information can travel through the internet to the Obama election campaign s



use of the power of protocols to reach voters harvest their data incentivize and ultimately shape their participation in the campaign In demonstrating the kind of rhetorical spaces networked software establishes and the access it permits prevents and molds Brown makes a major contribution to the emergent discourse of software studies as a major component of efforts in broad fields including media studies rhetorical studies and cultural studies **Critical Code Studies** Mark C.

Marino,2020-03-10 An argument that we must read code for more than what it does we must consider what it means Computer source code has become part of popular discourse Code is read not only by programmers but by lawyers artists pundits reporters political activists and literary scholars it is used in political debate works of art popular entertainment and historical accounts In this book Mark Marino argues that code means more than merely what it does we must also consider what it means We need to learn to read code critically Marino presents a series of case studies ranging from the Climategate scandal to a hactivist art project on the US Mexico border as lessons in critical code reading Marino shows how in the process of its circulation the meaning of code changes beyond its functional role to include connotations and implications opening it up to interpretation and inference and misinterpretation and reappropriation The Climategate controversy for example stemmed from a misreading of a bit of placeholder code as a smoking gun that supposedly proved fabrication of climate data A poetry generator created by Nick Montfort was remixed and reimagined by other poets and subject to literary interpretation Each case study begins by presenting a small and self contained passage of code by coders as disparate as programming pioneer Grace Hopper and philosopher Friedrich Kittler and an accessible explanation of its context and functioning Marino then explores its extra functional significance demonstrating a variety of interpretive approaches

Re-collection Richard Rinehart,Jon Ippolito,2022-11-01 The first book on the philosophy and aesthetics of digital preservation examines the challenge posed by new media to our long term social memory How will our increasingly digital civilization persist beyond our lifetimes Audio and videotapes demagnetize CDs delaminate Internet art links to websites that no longer exist Amiga software doesn't run on iMacs In Re collection Richard Rinehart and Jon Ippolito argue that the vulnerability of new media art illustrates a larger crisis for social memory They describe a variable media approach to rescuing new media distributed across producers and consumers who can choose appropriate strategies for each endangered work New media art poses novel preservation and conservation dilemmas Given the ephemerality of their mediums software art installation art and interactive games may be heading to obsolescence and oblivion Rinehart and Ippolito both museum professionals examine the preservation of new media art from both practical and theoretical perspectives offering concrete examples that range from Nam June Paik to Danger Mouse They investigate three threats to twenty first century creativity technology because much new media art depends on rapidly changing software or hardware institutions which may rely on preservation methods developed for older mediums and law which complicates access with intellectual property constraints such as copyright and licensing Technology institutions and law however can be enlisted as allies rather than enemies of

ephemeral artifacts and their preservation The variable media approach that Rinehart and Ippolito propose asks to what extent works to be preserved might be medium independent translatable into new mediums when their original formats are obsolete

*Informatics of Domination* Zach Blas, Melody Jue, Jennifer Rhee, 2025-03-07 *Informatics of Domination* is an experimental collection addressing formations of power that manifest through technical systems and white capitalist patriarchy in the twenty first century The volume takes its name from a chart in Donna J Haraway's canonical 1985 essay *A Manifesto for Cyborgs* Haraway theorizes the informatics of domination as a feminist diagrammatic concept for situating power and a world system from which the figure of the cyborg emerges *Informatics of Domination* builds on Haraway's chart as an open structure for thought inviting fifty scholars artists and creative writers to unfold new perspectives Their writings take on a variety of forms such as essays on artificial intelligence disability and protest and transpacific imaginaries conversations with an AI trained on Black oral history a three dimensional response to Mexico US border tensions hand drawn images on queer autotheory ecological fictions about gut microbiomes and wet markets and more Together the writings take up the unfinished structure of the chart in order to proliferate critiques of white capitalist patriarchal power with the study of information systems networks and computation today This volume includes an afterword by Haraway

Contributors Dalida Mar a Benfield Zach Blas Ama Josephine Budge Johnstone micha c rdenas Amy Sara Carroll Shu Lea Cheang Jian Neo Chen Heather Dewey Hagborg Ranjodh Singh Dhaliwal Stephanie Dinkins Ricardo Dominguez Ashley Ferro Murray Matthew Fuller Jacob Gaboury Jennifer Gabrys Alexander R Galloway Jennifer Mae Hamilton Donna J Haraway Eva Hayward Stefan Helmreich Kathy High Leon J Hilton Ho Rui An Hi ilei Julia Kawehipuaakahaopulani Hobart Tung Hui Hu Caroline A Jones Melody Jue Homa King Larissa Lai Lawrence Lek Esther Leslie Alexis Lothian Isadora Neves Marques Radha May Elisa Giardina Papa Nupur Mathur and Bathsheba Okwenje Shaka McGlotten Mahan Moalemi madison moore Astrida Neimanis Bahar Noorizadeh Luciana Parisi Thao Phan Ana Teixeira Pinto Luiza Prado de O Martins Rita Raley Patricia Reed Jennifer Rhee Bassem Saad Ashkan Sepahvand Justin Talplacido Shoulder Lucy Suchman Ollie Zhang

*Illusions in Motion* Erkki Huhtamo, 2023-08-22 Tracing the cultural material and discursive history of an early manifestation of media culture in the making Beginning in the late eighteenth century huge circular panoramas presented their audiences with resplendent representations that ranged from historic battles to exotic locations Such panoramas were immersive but static There were other panoramas that moved hundreds and probably thousands of them Their history has been largely forgotten In *Illusions in Motion* Erkki Huhtamo excavates this neglected early manifestation of media culture in the making The moving panorama was a long painting that unscrolled behind a window by means of a mechanical cranking system accompanied by a lecture music and sometimes sound and light effects Showmen exhibited such panoramas in venues that ranged from opera houses to church halls creating a market for mediated realities in both city and country In the first history of this phenomenon Huhtamo analyzes the moving panorama in all its complexity investigating its relationship to

other media and its role in the culture of its time In his telling the panorama becomes a window for observing media in operation Huhtamo explores such topics as cultural forms that anticipated the moving panorama theatrical panoramas the diorama the panoramania of the 1850s and the career of Albert Smith the most successful showman of that era competition with magic lantern shows the final flowering of the panorama in the late nineteenth century and the panorama s afterlife as a topos traced through its evocation in literature journalism science philosophy and propaganda

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