



ACTIVITY-CENTERED DESIGN

An Ecological Approach to Designing Smart Tools and Usable Systems

Geri Gay and
Helene Hembrooke



Activity Centered Design An Ecological Approach To Designing Smart Tools And Usable Systems Acting With Technology

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Activity Centered Design An Ecological Approach To Designing Smart Tools And Usable Systems Acting With Technology:

Activity-Centered Design Geraldine Gay, Helene Hembrooke, 2004-02-06 An examination of the shift to context based human computer interaction design practice illuminated by the concepts of Activity Theory and related methods The shift in the practice of human computer interaction HCI Design from user centered to context based design marks a significant change in focus With context based design designers start not with a preconceived idea of what users should do but with an understanding of what users actually do Context based design focuses on the situation in which the technology will be used the activities relating to it and their social contexts Designers must also realize that introduction of the technology itself changes the situation in order to design workable systems the design process must become flexible and adaptive In Activity Centered Design Geri Gay and Helene Hembrooke argue that it is time to develop new models for HCI design that support not only research and development but also investigations into the context and motivation of user behavior Gay and Hembrooke examine the ongoing interaction of computer systems use design practice and design evaluation using the concepts of activity theory and related methods as a theoretical framework Among the topics they discuss are the reciprocal relationship between the tool and the task how activities shape the requirements of particular tools and how the application of the tools begins to reshape the activity differing needs and expectations of participants when new technology is introduced examining in particular the integration of wireless handheld devices into museums and learning environments and the effect of the layout of the computing space on movement function and social interaction Gay and Hembrooke then apply their findings on the use of technology in everyday contexts to inform future HCI design practice

Activity Systems Analysis Methods Lisa C. Yamagata-Lynch, 2010-07-15 In the last two decades there has been growing interest in pursuing theoretical paradigms that capture complex learning situations Cultural Historical Activity Theory CHAT is one of several theoretical frameworks that became very popular among educational researchers because it conceptualizes individuals and their environment as a holistic unit of analysis It assumes a non dualistic ontology and acknowledges the complexities involved in human activity in natural settings Recently reputable journals such as the American Psychologist Educational Psychologist and Educational Researcher that are targeted for a wide range of audience have included articles on CHAT In many of such articles CHAT has been referred to as social constructivism sociocultural theory or activity theory Activity systems analysis is one of the popular methods among CHAT researchers for mapping complex human interactions from qualitative data However understanding the methods involved in activity systems analysis is a challenging task for many researchers This difficulty derives from several reasons First the original texts of CHAT are in Russian and there have been numerous authors who report on the difficulties of reconciling translation problems of the works of original authors such as Vygotsky and Leontiev Second in North America activity systems analysis has deviated from the Russian scholars intentions and Engestr m

s original work using the triangle model to identify tensions to overcome and bring about sociopolitical change in participant practices Third to this date there are numerous publications on the theoretical background of activity theory and studies reporting the results of using activity systems analysis for unpacking qualitative data sets but there have been no methodological publications on how researchers engage in activity systems analysis Thus there is a dearth of literature in both book and journal publications that guide researchers on the methodological issues involving activity systems analysis

Technology Choices Diane E. Bailey, Paul M. Leonardi, 2015-01-30 An analysis of the occupational factors that shape the technology choices made by people who perform the same type of work Why do people who perform largely the same type of work make different technology choices in the workplace An automotive design engineer working in India for example finds advanced information and communication technologies essential allowing him to work with far flung colleagues a structural engineer in California relies more on paper based technologies for her everyday work and a software engineer in Silicon Valley operates on multiple digital levels simultaneously all day continuing after hours on a company supplied home computer and network connection In *Technology Choices* Diane Bailey and Paul Leonardi argue that occupational factors rather than personal preference or purely technological concerns strongly shape workers technology choices Drawing on extensive field work a decade s worth of observations and interviews in seven engineering firms in eight countries Bailey and Leonardi challenge the traditional views of technology choices technological determinism and social constructivism Their innovative occupational perspective allows them to explore how external forces shape ideas beliefs and norms in ways that steer individuals to particular technology choices albeit in somewhat predictable and generalizable ways They examine three relationships at the heart of technology choices human to technology technology to technology and human to human An occupational perspective they argue helps us not only to understand past technology choices but also to predict future ones

Virtually Amish Lindsay Ems, 2022-06-07 How the Amish have adopted certain digital tools in ways that allow them to work and live according to their own value system The Amish are famous for their disconnection from the modern world and all its devices But as Lindsay Ems shows in *Virtually Amish* Old Order Amish today are selectively engaging with digital technology The Amish need digital tools to participate in the economy websites for ecommerce for example and cell phones for communication on the road but they have developed strategies for making limited use of these tools while still living and working according to the values of their community The way they do this Ems suggests holds lessons for all of us about resisting the negative forces of what has been called high tech capitalism Ems shows how the Amish do not allow technology to drive their behavior instead they actively configure their sociotechnical world to align with their values and protect their community s autonomy Drawing on extensive ethnographic fieldwork conducted in two Old Order Amish settlements in Indiana Ems explores explicit rules and implicit norms as innovations for resisting negative impacts of digital technology She describes the ingenious contraptions the Amish devise including the black box phone a landline phone attached to a device

that connects to a cellular network when plugged into a car's cigarette lighter and considers the value of human centered approaches to communication. Non-Amish technology users would do well to take note of Amish methods of adopting digital technologies in ways that empower people and acknowledge their shared humanity. *The Good Drone* Austin Choi-Fitzpatrick, 2020-07-28. How small scale drones, satellites, kites and balloons are used by social movements for the greater good. Drones are famous for doing bad things; weaponized, they implement remote control war used for surveillance; they threaten civil liberties and violate privacy. In *The Good Drone*, Austin Choi-Fitzpatrick examines a different range of uses: the deployment of drones for the greater good. Choi-Fitzpatrick analyzes the way small scale drones as well as satellites, kites and balloons are used for a great many things including documenting human rights abuses, estimating demonstration crowd size, supporting anti-poaching advocacy and advancing climate change research. In fact, he finds small drones are used disproportionately for good, nonviolent, prosocial uses predominate. Choi-Fitzpatrick's broader point is that the use of technology by social movements goes beyond social media and began before social media. From the barricades in Les Misérables to hacking attacks on corporate servers to the spread of the MeToo hashtag on Twitter, technology is used to raise awareness but is also crucial in raising the cost of the status quo. New technology in the air changes politics on the ground and raises provocative questions along the way. What is the nature and future of the camera when it is taken out of human hands? How will our ideas about privacy evolve when the altitude of a penthouse suite no longer guarantees it? Working at the leading edge of an emerging technology, Choi-Fitzpatrick takes a broad view, suggesting social change efforts rely on technology in new and unexpected ways. *Shifting Practices* Giovan Francesco Lanzara, 2016-03-18. How disruptions and discontinuities caused by the introduction of new technologies often reveal aspects of practice not previously observed. What happens in an established practice or work setting when a novel artifact or tool for doing work changes the familiar work routines? Any unexpected event or change or technological innovation creates a discontinuity; organizations and individuals must reframe taken-for-granted assumptions and practices and reposition themselves. To study innovation as a phenomenon, then, we must search for situations of discontinuity and rupture and explore them in depth. In *Shifting Practices*, Giovan Francesco Lanzara does just that and discovers that disruptions and discontinuities caused by the introduction of new technologies often reveal aspects of practice not previously observed. After discussing methodological and research issues, Lanzara presents two in-depth studies focusing on processes of design and innovation in two different practice settings: music education and criminal justice. In the first, he works with the music department of a major American university to develop Music LOGO, a computer system that allows students to explore musical structures with simple composition-like exercises and experiments. In the second, he works with the Italian court system in the design and use of video technology for criminal trials. In both cases, drawing on anecdotes and examples as well as theory and analysis, he traces the new systems from design through implementation and adoption. Finally, Lanzara considers the researcher's role and the relationship encompassing

empathy vulnerability and temporality between the reflective researcher and actors in the practice setting *Routledge Encyclopedia of Technology and the Humanities* Chan Sin-wai, Mak Kin-wah, Leung Sze Ming, 2024-04-29 Routledge

Encyclopedia of Technology and the Humanities is a pioneer attempt to introduce a wide range of disciplines in the emerging field of techno humanities to the English reading world This book covers topics such as archaeology cultural heritage design fashion linguistics music philosophy and translation It has 20 chapters contributed by 26 local and international scholars Each chapter has its own theme and addresses issues of significant interest in the respective disciplines References are provided at the end of each chapter for further exploration into the literature of the relevant areas To facilitate an easy reading of the information presented in this volume chapters have been arranged according to the alphabetical order of the topics covered This Encyclopedia will appeal to researchers and professionals in the field of technology and the humanities and can be used by undergraduate and graduate students studying the humanities **Triangles and Tribulations** Clay

Spinuzzi, 2025-06-17 How the sociology of translation can help us understand a social science framework cultural historical activity theory CHAT as a set of uneasy settlements that both further and betray their original intentions How do social science frameworks get taken up and spread In *Triangles and Tribulations* Clay Spinuzzi uses the sociology of translation to reread the history of one such framework cultural historical activity theory CHAT CHAT originated in the 1920s and 1930s work of Soviet psychologists in the Vygotsky Circle with its key insight mediation depicted in a simple triangular diagram drawn by Lev Vygotsky From there CHAT was developed and popularized by international scholars including Finnish researcher Yrjö Engeström who used Vygotsky's triangle as a basis for his own Through this progressive development CHAT carried on the work of its forebears building on their foundations or so we are sometimes encouraged to understand these transformations But each such translation Spinuzzi argues is also a betrayal Each innovation opens new possibilities for CHAT but also disrupts a previous settlement Examining specific points in CHAT's history Spinuzzi reviews how CHAT has been applied to different domains in service to different projects and evaluated through different trials undergoing rhetorical transformations These translations sedimented as a series of settlements have allowed it to persist as a social science approach and develop as a framework for workplace studies But they have also involved accumulating concepts and terms from various social sciences yielded radical changes in scope and led to ongoing disputes about what constitutes its units of analysis In examining CHAT's triangles Spinuzzi considers how social science frameworks live through practice and dialogue so that they can continue becoming meaningful to others *Web Campaigning* Kirsten A. Foot, Steven M. Schneider, 2006

Foot and Schneider examine the evolution of political campaign web practices **American Book Publishing Record**

, 2003 Group Cognition Gerry Stahl, 2006 Exploring the software design social practices and collaboration theory that would be needed to support group cognition collective knowledge that is constructed by small groups online Innovative uses of global and local networks of linked computers make new ways of collaborative working learning and acting possible In

Group Cognition Gerry Stahl explores the technological and social reconfigurations that are needed to achieve computer supported collaborative knowledge building group cognition that transcends the limits of individual cognition Computers can provide active media for social group cognition where ideas grow through the interactions within groups of people software functionality can manage group discourse that results in shared understandings new meanings and collaborative learning Stahl offers software design prototypes analyzes empirical instances of collaboration and elaborates a theory of collaboration that takes the group rather than the individual as the unit of analysis Stahl s design studies concentrate on mechanisms to support group formation multiple interpretive perspectives and the negotiation of group knowledge in applications as varied as collaborative curriculum development by teachers writing summaries by students and designing space voyages by NASA engineers His empirical analysis shows how in small group collaborations the group constructs intersubjective knowledge that emerges from and appears in the discourse itself This discovery of group meaning becomes the springboard for Stahl s outline of a social theory of collaborative knowing Stahl also discusses such related issues as the distinction between meaning making at the group level and interpretation at the individual level appropriate research methodology philosophical directions for group cognition theory and suggestions for further empirical work Bulletin of the American Society for Information Science and Technology ,2005 **The British National Bibliography** Arthur James Wells,2005 *Wired Shut* Tarleton Gillespie,2007 While the public and the media have been distracted by the story of Napster warnings about the evils of piracy and lawsuits by the recording and film industries the enforcement of copyright law in the digital world has quietly shifted from regulating copying to regulating the design of technology Lawmakers and commercial interests are pursuing what might be called a technical fix instead of specifying what can and cannot be done legally with a copyrighted work this new approach calls for the strategic use of encryption technologies to build standards of copyright directly into digital devices so that some uses are possible and others rendered impossible In *Wired Shut* Tarleton Gillespie examines this shift to technical copy protection and its profound political economic and cultural implications Gillespie reveals that the real story is not the technological controls themselves but the political economic and cultural arrangements being put in place to make them work He shows that this approach to digital copyright depends on new kinds of alliances among content and technology industries legislators regulators and the courts and is changing the relationship between law and technology in the process The film and music industries he claims are deploying copyright in order to funnel digital culture into increasingly commercial patterns that threaten to undermine the democratic potential of a network society In this broad context Gillespie examines three recent controversies over digital copyright the failed effort to develop copy protection for portable music players with the Strategic Digital Music Initiative SDMI the encryption system used in DVDs and the film industry s legal response to the tools that challenged them and the attempt by the FCC to mandate the broadcast flag copy protection system for digital television In each he argues that whether or not such technical constraints ever succeed the

political alignments required will profoundly shape the future of cultural expression in a digital age Information Wissenschaft & Praxis ,2005 Designing Smart Objects in Everyday Life Marco C. Rozendaal,Betti Marenko,William Odom,2021-07-15 The dramatic acceleration of digital technologies and their integration into physical products is transforming everyday objects Our domestic appliances furniture clothing are growing in intelligence Smart objects are increasingly capable of interacting with humans in a purposeful manner with intentionality This collection of essays descriptions of empirical work and design case studies brings together perspectives from interaction design the humanities science and technology studies and engineering to map explore and interrogate ways in which our relationships with everyday smart objects might expand and be re imagined By offering a critical assessment on the growing place of smart technology in everyday environments this book outlines a transdisciplinary research agenda for the future of smartness to help define envision and inspire future collaborative design practices These essays propose an understanding and design of smart objects that embrace their hybrid nature as shifting and blending tools agents machines or even creatures Authors argue that smart objects have the potential to enter into multiple kinds of relationships with humans and form complex human nonhuman ecologies that are both meaningful and empowering in the context of everyday life This book also shines a light on the hidden infrastructures behind the functioning of smart objects with stirring debates tackling questions of technology human values and economic and ecological impact Whether you are a design scholar design practitioner or design activist this book will inspire through offering theoretical insights design concepts and practical ways on how to engage in this research agenda for future smartness

Life-based Design Jaana Leikas,2009 We need a multidimensional and holistic approach to human technology interaction HTI design in order to understand what technology could really offer for people and in what forms and on what terms it would be welcomed and adopted To answer this challenge a new holistic design paradigm Life Based Design is introduced in this book The design of HTI should consider the additional value that technology brings to users Technology should exist not for itself but rather for bringing added value to the everyday of people thus improving the quality of people s life Therefore the aim of HTI should be to consider the human technology interaction in a much larger context than within the context of using technology In addition to physical usage environment the impact of for example psychological and social environments of the users should also be taken into account in the design This calls for a holistic consideration of the problem at hand without necessarily getting off the ground with technology first in mind as the primary solution As the grounds for the design should be in a richer and more comprehensive appreciation of human technology interaction the starting point of the design should be in comprehension of people s lives This is especially important now as technology development is focusing more and more on developing services besides technologies Design of service concepts if any has to be carried out with a much broader design approach than what the traditional approaches to human technology design can offer Mere investigation of the elements of life is not enough to guarantee successful design

outcomes We need to have well grounded methods and tools for the design which can utilise our investigations of life and implement this knowledge into the design work The basic concept in Life Based Design paradigm is form of life With this concept it is meant any systems of rule following actions in people s lives Forms of life offer a simple but very usable approach to examine life in all kinds of situations They define what people do by defining their rulefollowing actions and attributes in a context With the construction of a description of a form of life it is possible to get an idea about what ICT designers can do to improve the lives of the people sharing that particular form of life Defining components of a form of life is a critical step in the design It allows designers to understand how people could be supported in their pursuit towards the goals they have in participating in a particular form of life Following the paradigm introduced the rule following actions and design relevant attributes can be explicated and configured to technology supported actions TSAs Creating the descriptions of TSAs enables designers to define problems accurately and to concentrate on designing solutions for them The holistic perspective to ICT design is discussed in this book in a context of older adults and gerontechnology by reviewing the main ideas and findings of the field This material provides us with a concrete conception of how forms of life can be investigated to direct the development of new technologies The aim of Life Based Design is the use of vital understanding about people s life as the basis of the creation of design ideas and concept design to guide the whole development process of products and services It is thus the kind of activity which should be carried out first in the development process It will produce decisive information for further phases in the development process This book is a synopsis of an academic dissertation Leikas J 2009 Life Based Design Form of life as a foundation for ICT design for older adults Jyv skyl studies in computing 105 Jyv skyl Jyv skyl University Printing House *Designing for Situation Awareness* Mica R. Endsley, 2011-12-19 The barrage of data overload is threatening the ability of people to effectively operate in a wide range of systems including aircraft cockpits and ground control stations military command and control centers intelligence operations emergency management medical systems air traffic control centers automobiles financial and business management systems space exploration and power and process control rooms All of these systems need user interfaces that allow people to effectively manage the information available to gain a high level of understanding of what is currently happening and projections on what will happen next They need systems designed to support situation awareness Addressing the information gap between the plethora of disorganized low level data and what decision makers really need to know *Designing for Situation Awareness An Approach to User Centered Design* Second Edition provides a successful systematic methodology and 50 design principles for engineers and designers seeking to improve the situation awareness of their systems users based on leading research on a wide range of relevant issues See what s new in the Second Edition Significantly expanded and updated examples throughout to a wider range of domains New Chapters Situation Awareness Oriented Training and Supporting SA in Unmanned and Remotely Operated Vehicles Updated research findings and expanded discussion of the SA design principles and guidelines to cover

new areas of development Mica R Endsley is a pioneer and world leader in the study and application of situation awareness in advanced systems Debra G Jones work is focused on designing large scale and complex systems to support situation awareness and dynamic decision making Completely revised and updated liberally illustrated with actual design examples this second edition demonstrates how people acquire and interpret information and examines the factors that undermine this process Endsley and Jones distill their expertise and translate current research into usable applicable methods and guidelines

Sustainable Design Tomayess Issa, Pedro Isaias, 2015-10-13 This book is concerned with the importance of Human Computer Interaction HCI Usability user participants and Sustainability in the Information Communication Technology ICT industry throughout the world ICT has become a crucial instrument for communication entertainment commerce and research and this increased usage is presenting new environmental and sustainability issues as we try and meet the ever growing needs of both businesses and individuals Sustainability must become central to the design of new technologies to make a concerted effort to tackle the environmental concerns we face now and for the future Development frameworks tools and models are used and explored and the New Participative Methodology for Sustainable Design NPMSD is introduced as a way of identifying key factors needed in developing more sustainable systems including new smart technology and portable devices It is hoped additional research will be carried out in the future to assess these sustainable design steps using larger more diverse countries with developed and developing economies to further refine such methods Sustainable Design will be an invaluable resource for students and researchers designers and business managers who are interested in the human centred environmental concerns of sustainable technologies

Designing for Life Pertti Saariluoma, José J. Cañas, Jaana Leikas, 2016-06-21 Throughout the chapters the authors take readers through the various uses of technology They discuss archifact analysis usability and cognitive engineering as well as motivation and emotion in user interface design The book also crucially introduces a new holistic approach to designing human technology interaction The book is suitable for researchers postgraduate and undergraduate students of cognitive and social psychology as well as all those who are interested in technological design and its societal impact

Decoding **Activity Centered Design An Ecological Approach To Designing Smart Tools And Usable Systems Acting With Technology**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Activity Centered Design An Ecological Approach To Designing Smart Tools And Usable Systems Acting With Technology**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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