'Thick description' and design

Jack Whalen

Aalto ARTS
Department of Design
Summer School

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Outline

- Human-centred design Revisiting some basic issues and history
- Thick description Where did the term comes from? What does it mean? Why should it matter?
- Seeing the world ethnomethodologically
- The native's point of view Case studies of practitioner expertise and designing 'smart' knowledge systems
- Human centred design and ethnography redux
- Reconfiguring design ethnography

 Practice-based research (research through design)



- O. Practice-based research (research *through* design)
- 1. Dominance of cognitive science (modelling devices, users and interactions; research *for* design)



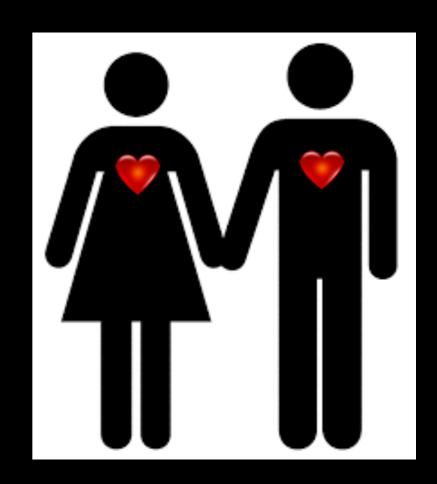
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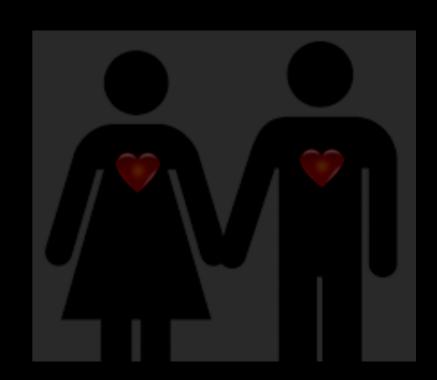


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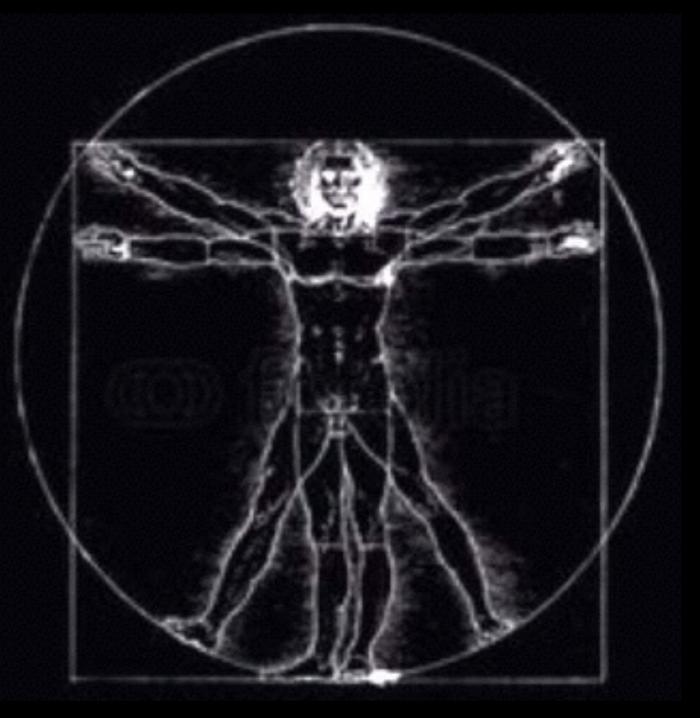
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Worksites >> Everywhere

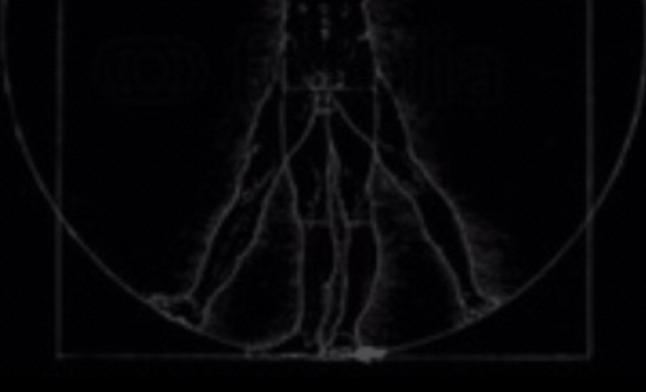
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 If humans are the focus, the centre of attention — How can we truly 'understand' them (their behaviour, feelings, thoughts, needs, ...?)



'Interpreting' humans

of attention — How can we truly 'understand' them (their behaviour, feelings, thoughts, needs, ...?)



'Interpreting' cultures

of attention — How can we truly 'understand' them (their behaviour, feelings, thoughts, needs, ...?)



'Interpreting' cultures

Taking a turn to the social is by no means a straightforward matter however, not least because of the vast array of competing accounts or descriptions as to how human activities are socially organised in the actions and interactions of people. Simply put, the problem in turning to the social is one of describing the sociality of conduct in an adequate fashion. This is not simply a sociological problem but one that goes to the heart of design as it follows that inadequate descriptions of practical conduct – of work – in which systems are to be embedded can but result in inadequate designs. Designs that is, which are not particularly responsive to the actual circumstances of their use.

(Crabtree, Wild Sociology: Ethnography and Design, 2001)

- Where does the term come from?
 - Gilbert Ryle 'The Thinking of Thoughts: What is *Le Penseur* Doing?' and 'Thinking and Reflecting' (1968)
 - Clifford Geertz *The Interpretation of Cultures* (1973)

- •What does it mean? Ryle...
 - Blinks (involuntary twitches) and winks ... and parodies of winks, and rehearsals of parodies of winks
 - Thin description of the rehearser: 'rapidly contracting his right eyelid'
 - Thick description of the rehearser: 'practicing a burlesque of a friend faking a wink to deceive an innocent into thinking a conspiracy is in motion'

- •What does it mean? Geertz...
 - Cultural analysis is an interpretative, decoding practice
 - The raw observational material collected by an ethnographer is too thin,
 - Our detailed, layered interpretations of local (situated) happenings make up thick description
 - But the thickest of descriptions can still only be based on what the locals tell (instruct) us

- •What does it mean?
 - Cultural analysis is an practice

'what we call our data are really our own constructions of other people's constructions of what they and their compatriots are up to'

The native's point of view?

DUDGE OF WHAT THE POURS FOR THE PROPERTY OF

- •What does it mean?
 - Cultural analysis is an

'most of what we need to comprehend a particular event, ritual, custom, idea or whatever is insinuated as background information before the thing itself is directly examined'

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What everyone knows... commonsense knowledge

Understanding commonsense knowledge

ethno

'the people' –
members of a
culture/collectivity

methodology

their methods
(of practical reasoning and action, their 'practical sociology')

Ethnomethodology = the study of members' methods

- Studying the 'work' of any setting's members to accomplish the naturally occurring activities in which they are involved – that is, the work of being anyone, doing anything (not necessarily paid labour)
- Derives from Harvey Sacks' reflections on doing 'Being Ordinary':

No matter how mundane and familiar our activities might be, it takes practical effort on our behalf, and on that of the others involved too, to make them happen

• Studying the 'work' of any setting's members to accomplish the naturally occurring activities in which

The phenomenon:

The 'achieved ordinariness' of our

social world

No matter how mundane and familiar our activities might be, it takes practical effort on our behalf, and on that of the others involved too, to make them happen

- Any setting's work is 'naturally accountable'
 - The members of a setting can see the work that is going on around them ... and know what it is that they and the other parties to the work are doing
 - Members can unproblematically offer a natural account of what they can see and what they are doing that others will recognise too

The upshot:

In doing their work members display for others what it is they are doing...

and by making visible what they are doing, others can see and recognise what is being done and can then coordinate their actions accordingly

an (observable) 'architecture of intersubjectivity'

 Any setting's work is 'naturally accountable' Hunting the animal in the foliage: How is something – actions, activities, identities, places, objects, etc – visibly (accountably) done, recognisably what it 'is' / what 'everyone around here knows'? account of what they can see and what they are doing that others will recognise too

Ethnomethodological thick description

- Descriptive accounts (inscriptions) that make instructably observable the work of a setting and its accountable organisation for the members who do it
- These accounts rely on the development of a members' competence in a setting's work
- Plainly, analysis is not something that happens after fieldwork, but runs through it

Ethnomethodologically informed research and design

- Large scale document production (Pycock et al, 1998)
- Ethnographically-informed systems design for air traffic control (Bentley et al, 1992)

Collections of papers and reports on ethnomethodologically informed ethnography —

Paul Luff, Jon Hindmarsh and Christian Heath (eds.) 2000. Workplace Studies: Recovering Work Practice and Informing System Design.

Richard Harper (ed.) 2011. <u>The Connected Home: The Future of Domestic Life</u>

Margaret Szymanski and Jack Whalen (eds.) 2011. Making Work Visible: Ethnographically Grounded Case Studies of Work Practice.

(T)he 'implications for design' approach...involves a reading of ethnography as purely methodological, and by the same token, as equivalent to other empirical approaches..., to be selectively deployed as needed. The ethnographer, in this view, is a passive instrument, a lens through which a specimen setting might be examined, with the ethnography providing an objective representation of that setting. What is missed is the extent that ethnography is always, inherently, a perspectival view, and that this perspectival quality is critical to what ethnography is.

(T)he 'implications for design' approach...involves a reading of

Reading ethnographic inquiry too narrowly, constraining ethnographic studies in ways that fail to do justice to the kinds of insights that they can provide

is missed is the extent that ethnography is always, inherently, a perspectival view quality is critical to what ethnography is.

(T)he 'implications for design' approach...involves a reading of

But to be honest, ethnomethodological inquiries on system design and work have produced more critiques, programmatic analyses, and research reports than successful designs.

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(T)he 'implications for design' approach...involves a reading of

same token, as equivalent to other empirical approaches...,

And note: Not all ethnographic inquiry is ethnomethodological in its orientation!

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quality is critical to what ethnography is.

The native's point of view: Practitioner 'expertise'

Ethnomethodology's 'unique adequacy criteria'

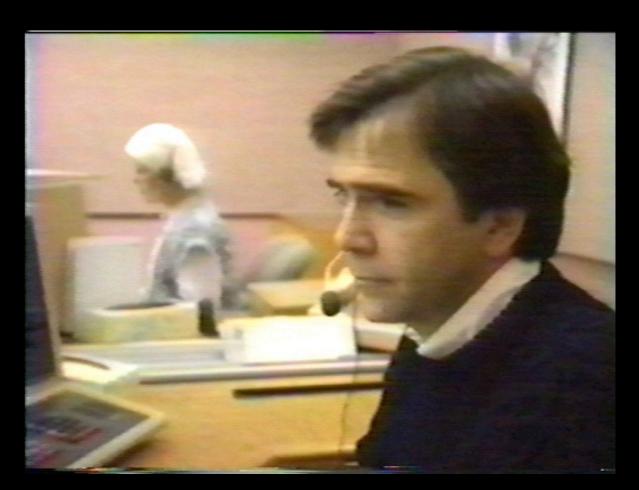
- The ideal: Learn to be a competent practitioner / member
- The practicality: With the practices of specialized populations and work communities, this can be quite difficult
- The result: 'Hybrid studies'
 - "Done by outsiders who are also insiders ... who have as their aim that practitioners in the specialty area being studied will be as interested in the studies as professional sociologists."*

^{*}Anne Warfield Rawls, 'Editors Introduction' to Harold Garfinkel, Ethnomethodology's Program: Working Out Durkheim's Aphorism

Ethnomethodology's 'unique adequacy criteria'

 The ideal: Learn to be a competent practitioner / member





The setting: Emergency communications

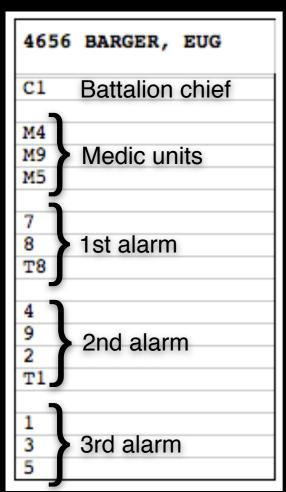


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9 2
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1 3 5
5

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Paper run sheets

CAD dispatch screen

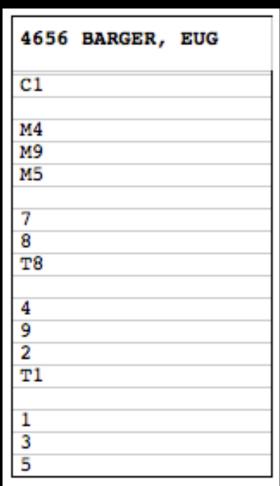


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2	9	ARV	EGF-5						

Run sheets for every address listed response groups – closest available principle

Separate notepad & pen used to record and track status & location

Response group for complete first alarm (chief, medic, engines + truck) noted on screen by **BOLDFACE** Each unit's current status and location listed under STA and LOCATION, respectively



	4656 B	ARGE	R, EUG	PONSE	UNIT	STATUS	AT	21:53	
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MED	м9				3	1			
MED	М5				3	3			
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1	8	DSP	3435 ECHO	HOLLOW					
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2	9	ARV	EGF-5						

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Old 'manual' system

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New, semiautomated expert system – dependent on incident code entered by call-taker

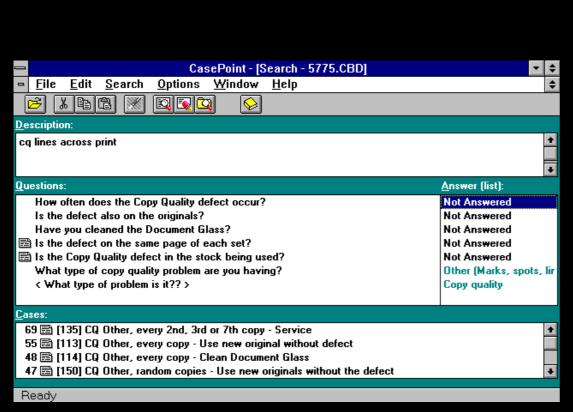
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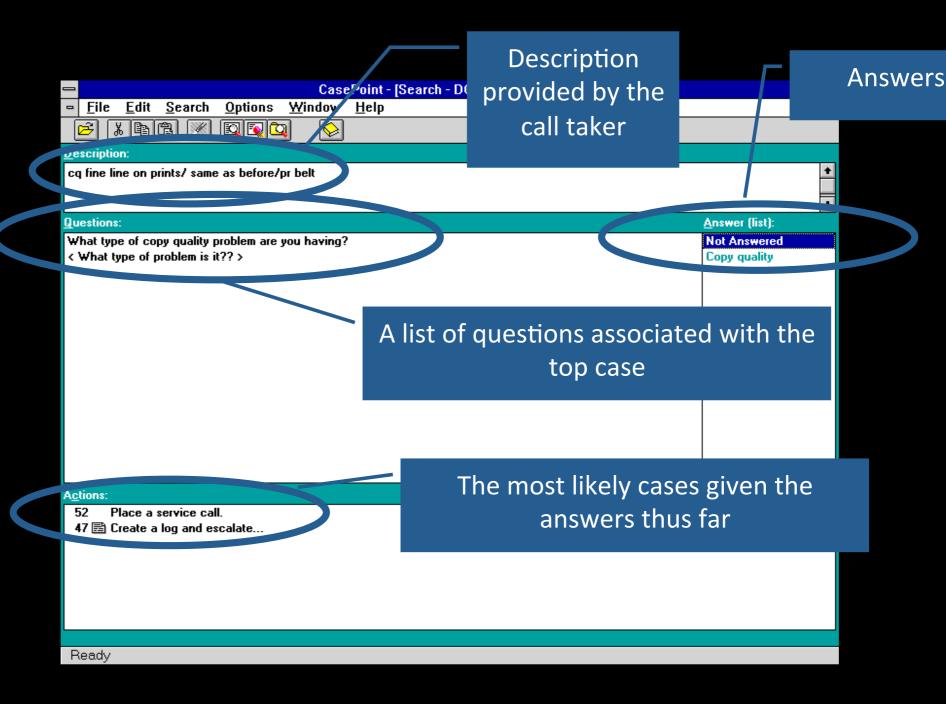
- 'Smart' technology (that could perhaps replace human expertise with machine intelligence) was considered a key enabler by Xerox management
- In the customer service organisation, they were already employing an expert system, called Case-Point, to diagnose document machine problems over the phone...
- and, if possible, instruct callers in fixing the problem

The business case



- Every service problem solved over the phone saves Xerox \$396
- Other reasons given for using an expert system
 - High employee turnover makes it costly to train reps about document machine operation (xerography)
 - Case-Point could be used by novices

How it is supposed to work

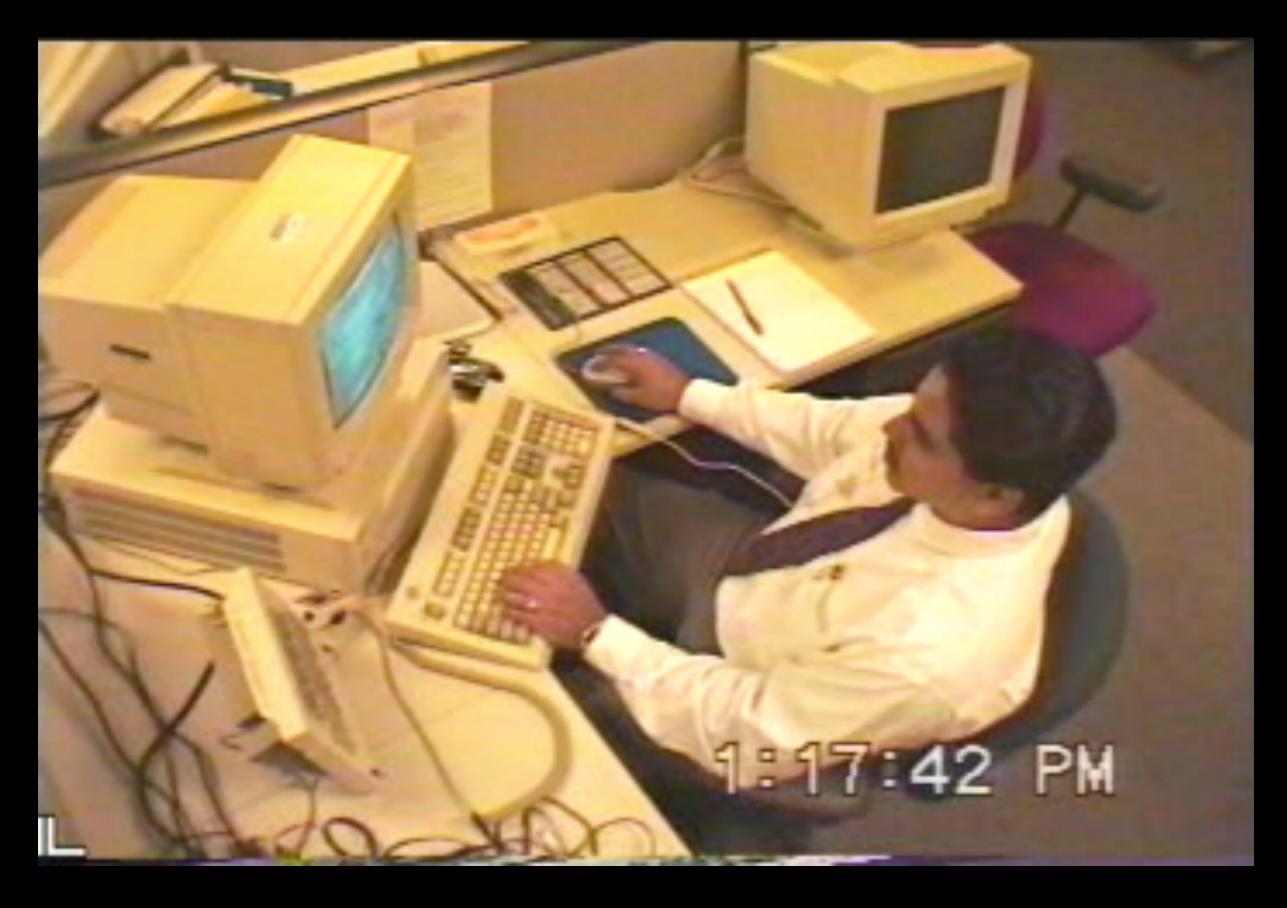


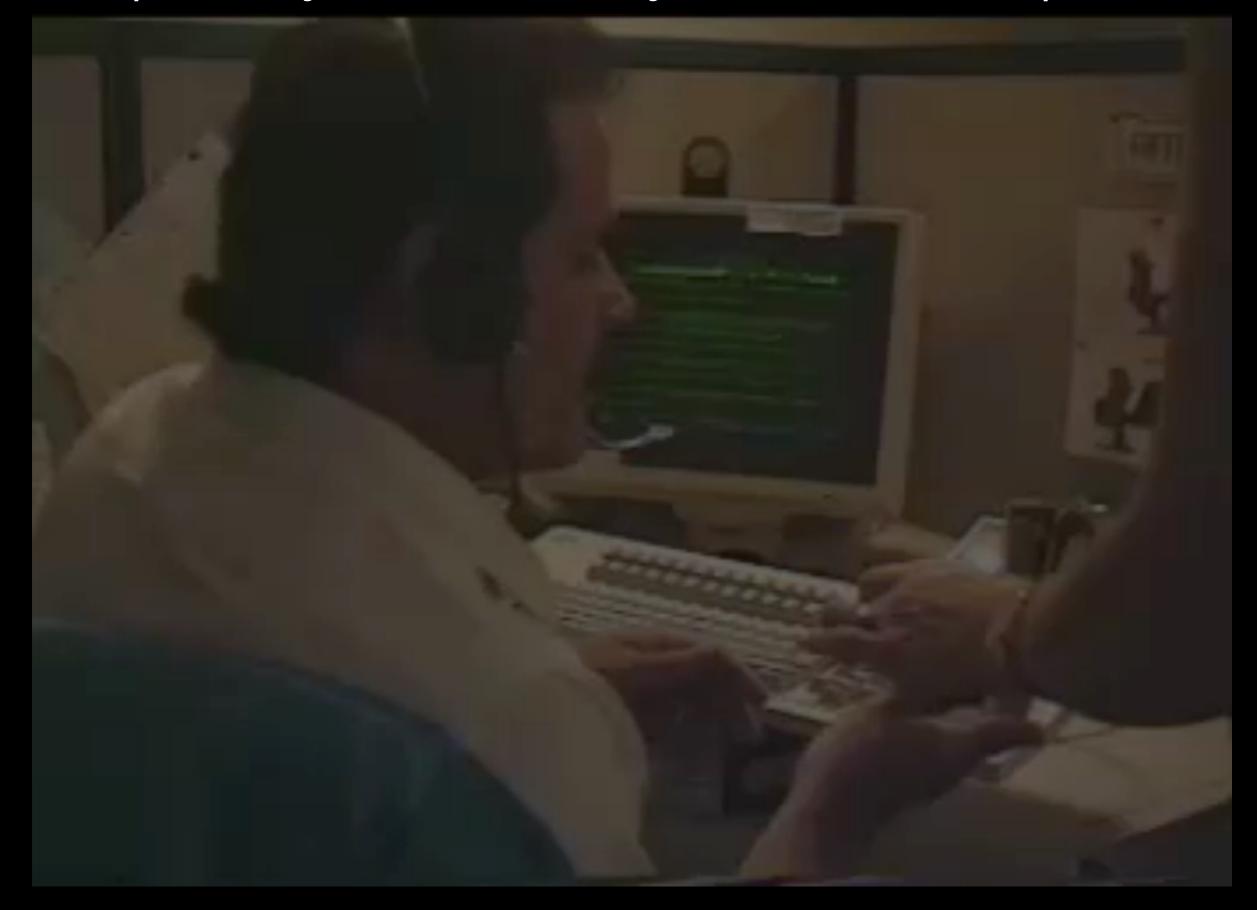


To get to the right diagnosis:

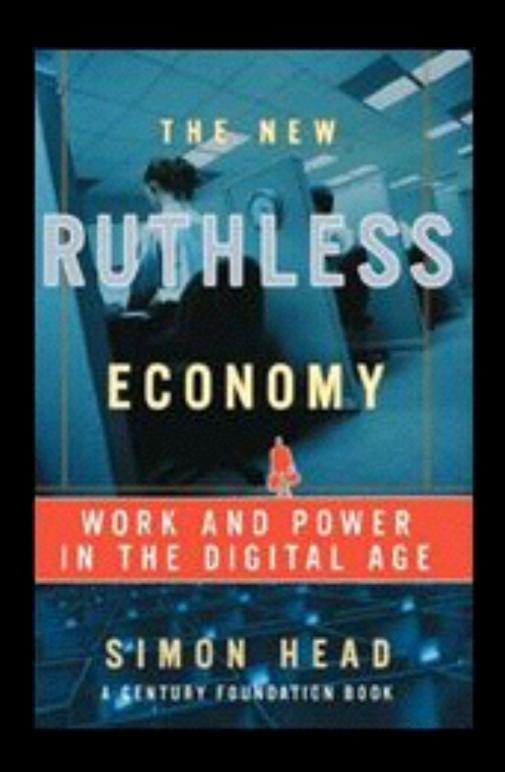
- 1. The customer's description must match (somewhat) the rep's description of the case
- 2. The rep must ask all the questions
 - 3. The customer must give truthful answers
 - 4. The rep must select the correct answers

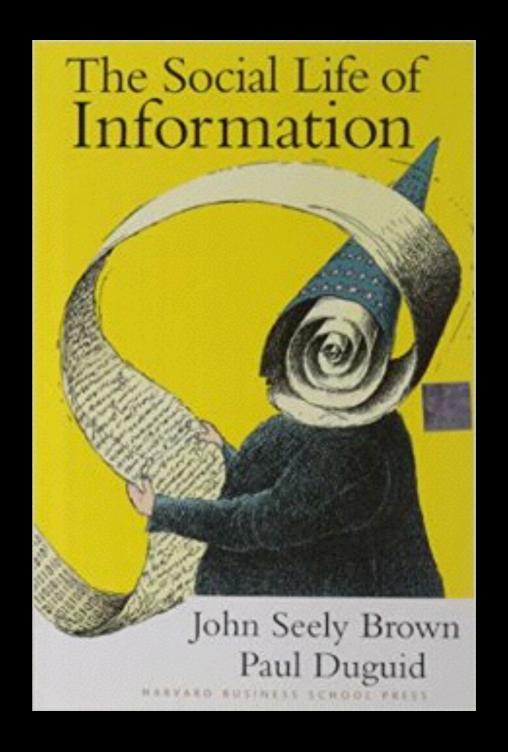
Case-Point in the real world





Communal knowledge, expertise and informtion technology





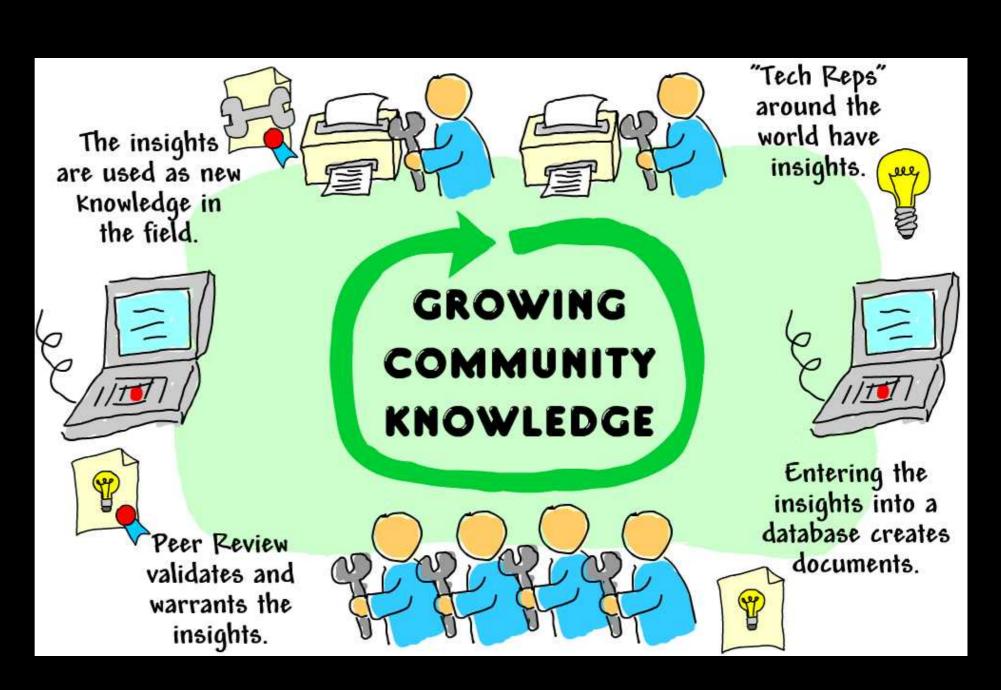
- Eureka's origins as an Al project:
 Developing an expert system to help technicians diagnose and fix machines (machine-as-prosthesis)
- Why this was wrong, and how we learned this...
- Observing everyday practice: inventiveness in the field and local/indigenous knowledgesharing
- Honouring and building on these practices to create Eureka...



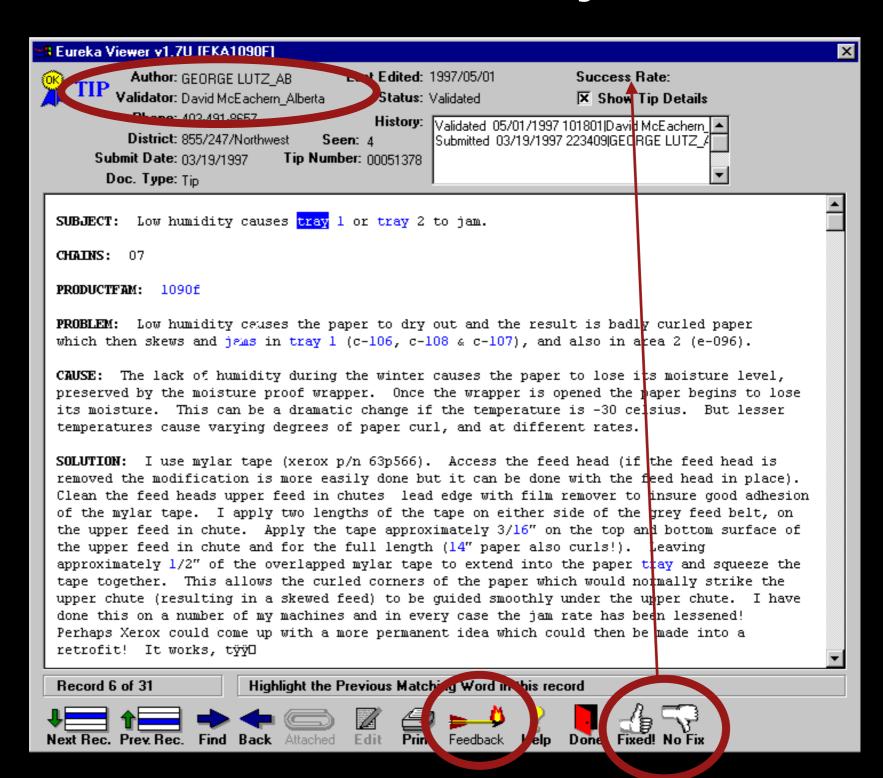
- Necessity is the mother of invention
 - Technicians frequently invent new solutions, keep 'crib sheets' of solutions to jog their memories, share war stories with their local work groups
- We realised we could build on these communal practices

 we could turn Al on its head, with the work community becoming the 'expert system'
- We also realised we had to co-design the system with them
 — as well as provide for control over the system by the technician community ... but this had never been done before in Xerox

The concept



The concept



- Engaging the technician community
 - We started in France ... they had the worst service performance and both management and the field technicians were open to change
 - Field experiments with laptops ... and then national implementation on French Telecom's Minitel system





- Engaging the technician community
 - Quebecois technicians had learned of the French results and reached out to us, which led to co-designing a very simple 'community server-laptop client' system for Quebec...
 - with a participatory deployment strategy across the country led by Eureka leaders from Quebec





The battle for America

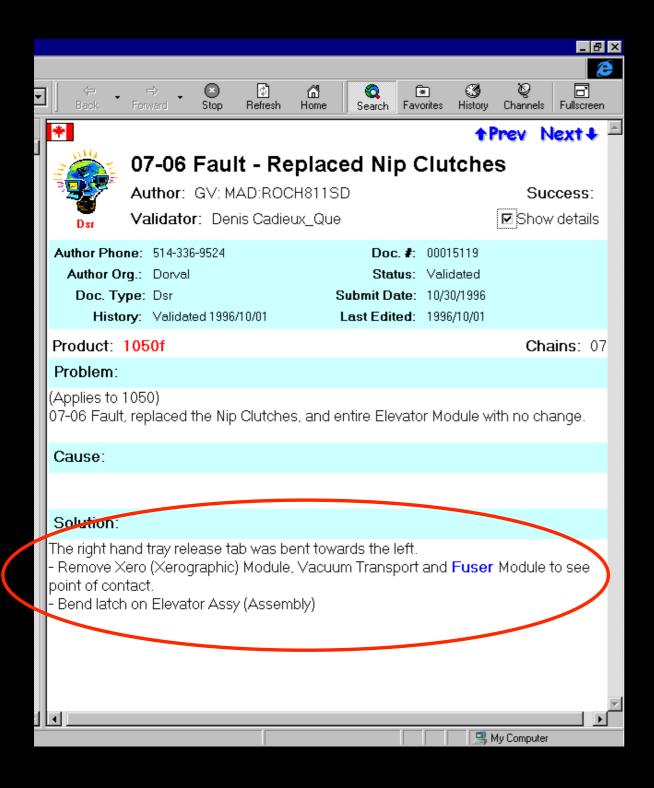
- Management reaction in the USA to the whole idea of Eureka was very negative, regardless of want had happened in France and Canada
 - They believed that 'quality service' depended on good documentation – the repair analysis procedures (RAPs) in the manual, written by engineers who designed the machines – and technicians should simply follow the RAPs
 - Technicians need not and should not! invent their own solutions ('We don't want them to be cowboys!')

The battle for America

- We turned to guerrilla methods (and relationships we had built in the field) to engage the technician community across the USA and spread Eureka in the field
- After three years of struggle, there were so many technicians promoting Eureka that Xerox management had to listen ... but it was a purely technical feature of the system (and not its socio-technical value) that finally led them to concede

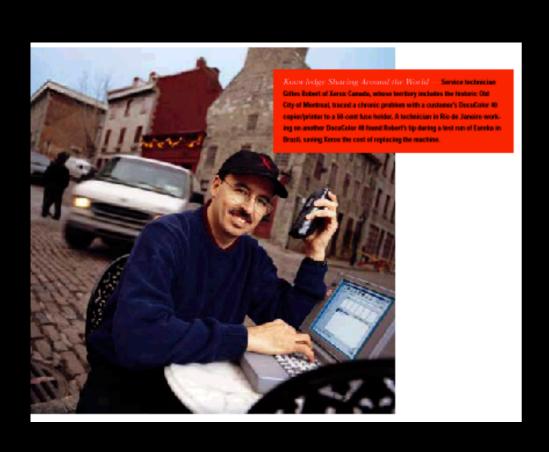
What's in a Eureka tip?

- Diagnosing unusual, costly failures
- Workarounds
- Easing the job
- Comments on official documentation
- And pretty much any other information that technicians believe could be helpful



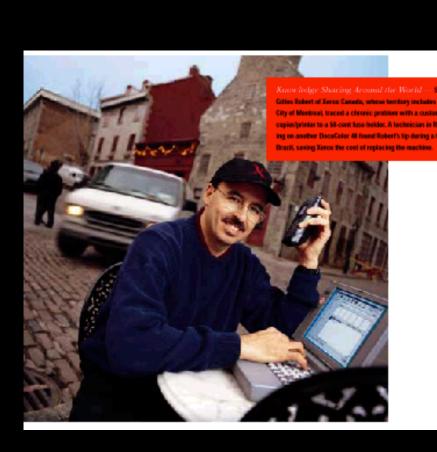
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Eureka results



- Over 15,000 technicians around the world were using the system...
- to solve over 750,000 problems each year (and this does not take into account the communal learning benefits)...
- for an annual savings to Xerox of \$15M

Eureka results





3-396 VSEL Communication Fail

Author: Gilles Robert_que

Validator: Marc Beauregard_que.

Product: dc40 Chains: 03

Success:

☐ Show details

Problem:

Printer declared 03-396 fault always at the start of a print job and never in the middle of the job.

Cause:

Fault : 03-396

Video selector marking control PWB detected a read/write fault of the XPC register on the VSEL. We changed the 2 video PWB's and the 2 ribbon cables between the video and the marking boards. We returned the next day and changed the marking board. Still the customer had intermittant 03-396 codes.

The customer had done did a lot of renovations in their offices and we found dust in the dc40.

Solution:

THIS SAVED US A LIKE FOR LIKE

[\$40,000]

The 5 volt line for the 2 **VSEL** PWB'S was the problem. There was a bad contact in the inline fuse in the 5 volt line. The 5 volts comes from the IIT LVPS. The problem is that between PJ782 pin 1 and 3 and the 2 **VSEL** PWB you have 2 inline fuses there and the 2 fuses were resistive and gave a bad 5 volt to the **VSEL** PWB. We cleaned the fuse contacts of the fuses and the problem never reappeared

See attachment for the BSD.

Research through design

Community

Who?

- Boundaries
- Membership
- Subgroups
- Neighbors

Where?

- Location
- Proximity
- Role of comm tech

Knowledge

What?

- Valued knowledge
- Kinds or forms
- Natural categories

Why?

- Sharing
- Kinds shared
- Motivations

Sharing

How?

- Routines
- Stories, requests
- Tech mediation
- Tech integration

When?

- Conditions
- Times
- Events

Research through design

Building Community Knowledge Systems

How much of the Eureka story can be generalized to other organizations that want a similar, sociotechnical system for knowledge creation and sharing? Answering these questions can help build such a system.

Community: Who and Where

- Who are the members of the work community? Shared identity and practices define "community." Because members share practices, communication between them can draw on background understanding or knowledge that doesn't have to be explicitly stated. It is easier to build a knowledge-sharing system based in community life that stays within the community than one that crosses distinct boundaries. Moreover, community membership is the basis for trust, and effective knowledge sharing depends on trusted information. In the case of Eureka, technicians write tips for other technicians, so the information is not only understandable in context but also trustworthy.
- Do members work in close proximity to each other? Working shoulder to shoulder supports continuous apprenticeship learning in which people can share knowledge that has not yet been articulated and documented. For people working primarily in separate locations, documents are especially important for sharing and learning. Moreover, when a community is large, documents help scale knowledge more rapidly across numbers, time, and distance. For example, Xerox service technicians spend most of their time alone in the field at customer sites. Extensive community knowledge sharing requires digital documents that they can read on a laptop.

Knowledge: What and Why

- What constitutes valuable knowledge for the community? Observation of how people do their
 work will reveal what kind of information they most often share because they value it. For example, we saw that technicians valued not only diagnostic tips but also hints about making certain
 tasks easier and corrections or improvements to documentation.
- Why do members share particular kinds of knowledge? Understanding the motivations for sharing is important for grasping the natural incentives within the community. Successful knowledge-sharing systems should build on this structure. External rewards can encourage sharing,

but there may be a danger in assuming that financial payoff is a naturally effective way to get quality information and participation. The service technicians felt that getting their job done more effectively and building a reputation for competence was a significant incentive.

Sharing: How and When

- How does sharing occur in the community every day? An effective knowledge-sharing system should honor natural sharing practices and the style people follow to exchange information, seek and give advice, and otherwise support each other. Service technicians tell stories of particular machines and their problems to share their learning and experience. The style of the tips, although they are written documents, tends to follow this narrative structure.
- In what different work contexts does sharing commonly occur? When a technician finds a particularly recalcitrant problem, he or she will tell the story at the next work-group meeting. This volunteering is often "just in time," because when a problem crops up in one machine, it may come up in others. On the other hand, when people come to the group to help, they bring up old stories. Then they use the story to suggest possible unexpected linkages between symptom and cause.

Implementation: What and How

- What constitutes effective technological support for work practice? Our experience strongly
 suggests the value of bringing a prototype to a pilot group in a community for participatory design
 and rapid turnaround in response to suggestions. The initial prototype provides something to which
 community members can react, which can indicate how the technology should change. Inventive
 community members will use the technology fruitfully in unexpected ways.
- How can people learn the new system? Learning to share knowledge involves learning what is valued, how to express it, how to find the knowledge, as well as learning about the technology per se. It is also involves having the incentive in the right context for learning. Learning should become a common, everyday activity in using the system, rather than an initial training activity separated from the work.

Human centred design and ethnography (redux)

Human ('user') centred design

 If humans are the focus, the centre of attention — How can we truly 'understand' them (their behaviour, feelings, thoughts, needs, ...?)



Human ('user') centred design

Ethnography Considered Harmful

Andy Crabtree, Tom Rodden, Peter Tolmie

School of Computer Science & IT University of Nottingham {axe, tar, pdt}@cs.nott.ac.uk

ABSTRACT

We review the current status of ethnography in systems design. We focus particularly on new approaches to and understandings of ethnography that have emerged as the computer has moved out of the workplace. These seek to implement a different order of ethnographic study to that which has largely been employed in design to date. In doing so they reconfigure the relationship ethnography has to systems design, replacing detailed empirical studies of situated action with studies that provide cultural interpretations of action and critiques of the design process itself. We hold these new approaches to and understandings of ethnography in design up to scrutiny, with the purpose of enabling designers to appreciate the differences between new and existing approaches to ethnography in systems design and the practical implications this might have for design.

Author Keywords

Ethnography, ethnomethodology, systems design.

ACM Classification Keywords

J.4 Social and Behavioural Sciences: Sociology.

INTRODUCTION

The title of this paper reflects a long tradition in systems design. It is succinctly summed up by Saul Greenberg and Bill Buxton in a recent CHI paper on usability evaluation in HCI [20]:

"In 1968, [Edsger] Dijkstra wrote 'Go To Statement Considered Harmful', a critique of existing programming practices that eventually led the programming community to adopt structured programming. Since then, titles that include the phrase 'considered harmful' signal a critical essay that advocates change."

This, then, is a critical essay. It is concerned with the changing nature of ethnography in systems design. By systems design, we refer to the development of computing systems and applications. Our purpose is to inform systems designers – i.e., those parties who are actively involved in the development of computing systems and applications, be they burnan factors experts, requirements engineers, or

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Graham Button

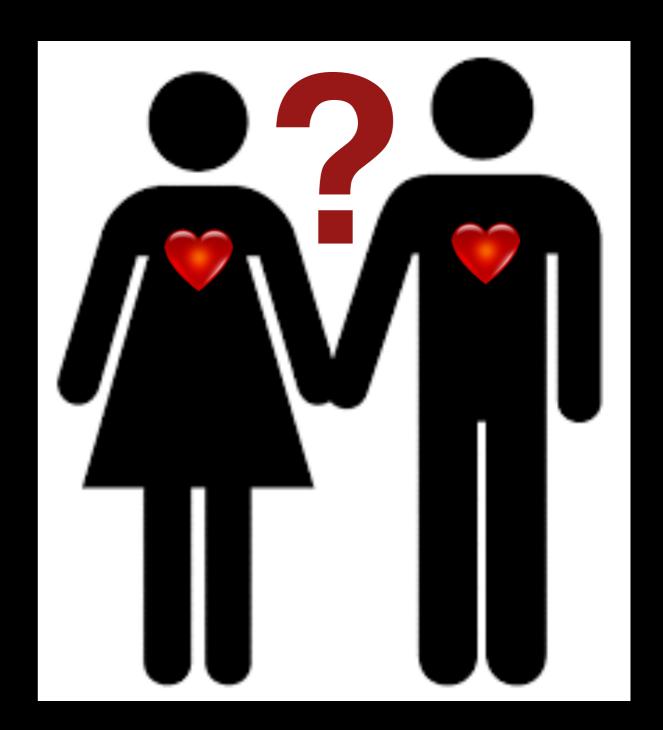
Fac. Arts, Computing, Engineering and Sciences Sheffield Hallam University g.button@shu.ac.uk

programmers — as to the changing nature of ethnography in systems design and the practical implications this may have for design practice.

Since Suchman's pioneering studies of human-machine communication [33], designers have had an interest in how ethnography can be used to shape the development of technology for the everyday world. To date there has been a particular focus upon the everyday weeld of work. As the computer moves out of the workplace, this has led HCI researchers to question the use of ethnography to study work-practices and fostered a call for ethnography to return to its anthropological origins and the study of culture. This may appeal to designers who do not have a disciplinary interest in ethnography but who are concerned to build technology upon social science insights. However, this paper intends to make visible and convey the methodological dangers that emerge for systems design in returning ethnography to its cultural origins.

The return to culture results in new approaches to and understandings of ethnography being offered to systems designers. They are new in the sense that they have not been employed in design before. They are, however, already well established in the social sciences. They derive from different, even competing, perspectives on culture and society and reflect a degree of epistemological diversity that it is not possible to address here. We focus instead on different approaches that draw upon them and are emerging within systems design. These have been developed for design purposes by a number of authors. We attend to the more prominent as they provide exemplars of new approaches to ethnography within systems design that many members of the CHI community will recognize.

New approaches to and understandings of ethnography within systems design provide for an entirely different order of ethnographic study to those that have largely been employed in design to date. As Bell et al. [5] put it, the "role differs from the one usually assigned to ethnography in HCI". It is characterized by "ethnographers turning their attention to consumer culture" and "cultural practices" [2] to provide designers with "critical readings of the social context of use" and to "generate innovative suggestions for and approaches to design problems" [4]. New ethnographic approaches draw upon "humanities-based disciplines such as anthropology, literary, cultural and media studies" to provide novel ways of "understanding how we relate to and think about technologies as cultural artefacts" [4].



Ethnomethodology and design?

Research for design

versus

Research through design

Ethnomethodology and design?

Research for design

versus

research / art / 'intervention' as inspiration to design

Ethnomethodology and design?

Research for design

Designers, engineers as gatekeepers

research / art / 'intervention' as

Constructing situations

Producing disorganisation

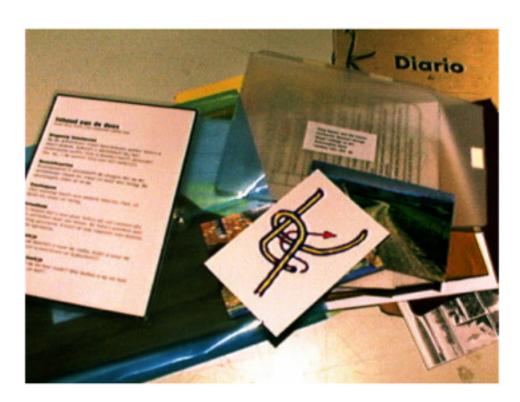
Create provocative events / situations

WE WILL
NOT LEAD
WE WILL ONLY
DETONATE



Create provocative 'probes'

We distributed them in visits to the local sites.

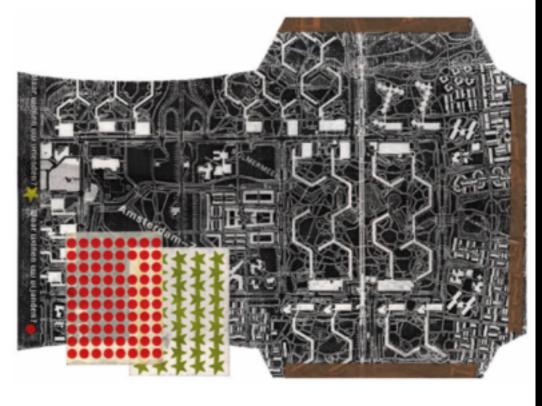


They contained a camera with requests for pictures... ... postcards asking open-ended questions... ...maps for marking the emotional topography of the area ...









Create provocative 'probes'

...and a photo album asking them to 'tell us your story.'



... (including surreal metaphors) ...



We received hundreds of cards, maps and photos in return.



Create provocative 'probes'

Not 'findings'

Rather, 'returns'...

for inspiration

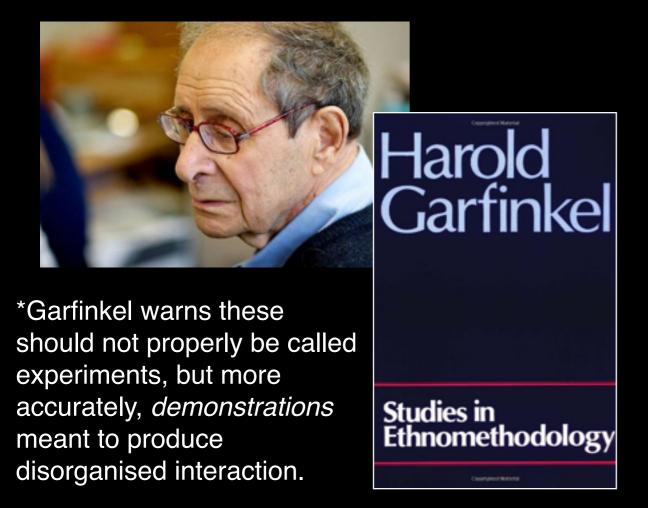
We did not analyse the probe returns

We used texture and landmarks to tell stories

We received hundreds of cards, maps and photos in return.



Breaching experiments*

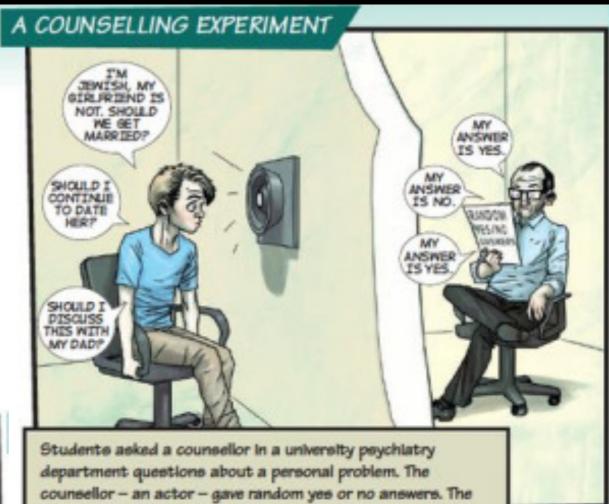


- Engage in conversation with others with the assumption that what the other person says is directed by hidden motives.
- Bargain for standard priced merchandise in a store.
- Play tic-tac-toe where you ask the other player to make the first move, then erase that mark and move it to another square before making your responding move.
- Stand very, very close to a person while engaging in otherwise innocuous conversation.

Breaching experiments



Studente were aeked to act as boarders in their own home. This is a 'breaching experiment', it disrupts normal routines. It shows how people attempt to construct order and manufacture sense when expected patterns of behaviour are breached.



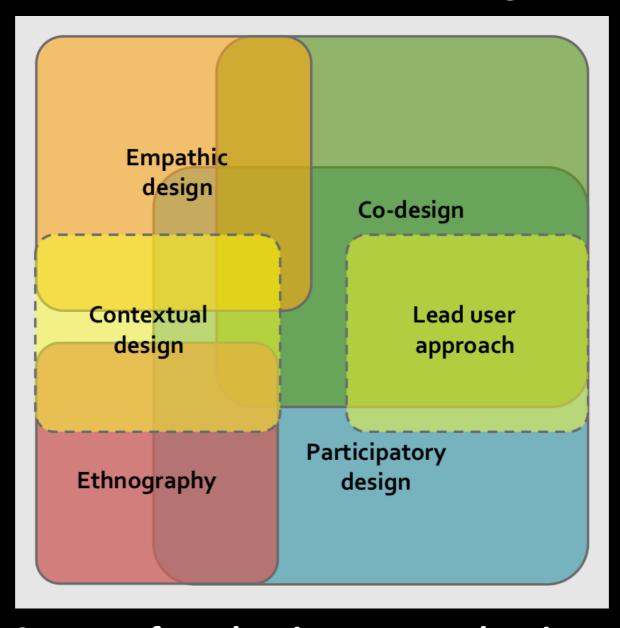
students made sense of the answers where no sense existed.

Reconfiguring design ethnography

Concern for what could be: a design orientation

Move of researchers and designers toward users

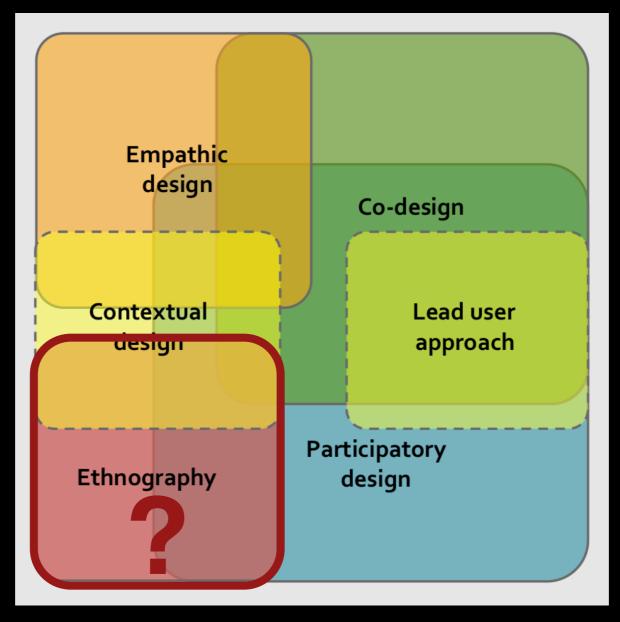
Steen, M. (2011).
Tensions in human-centred design,
CoDesign:
International Journal
of CoCreation in
Design and the Arts,
7(1), 45-60.



Move of users toward researchers and designers

Concern for what could be: a design orientation

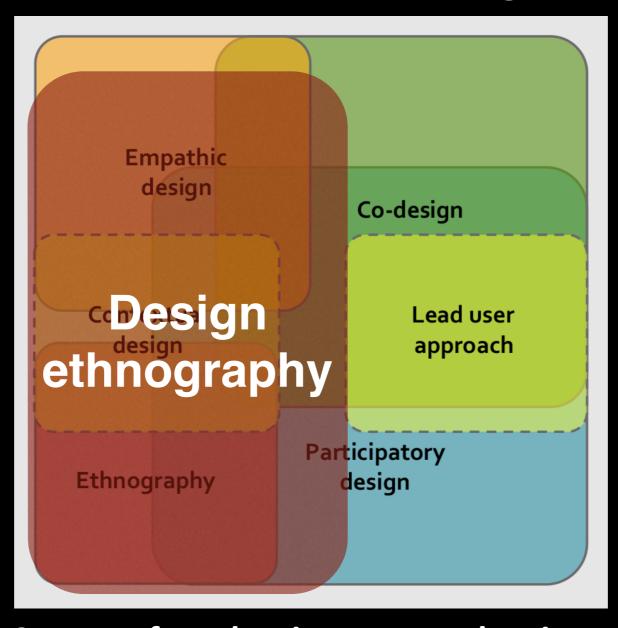
Move of researchers and designers toward users



Move of users toward researchers and designers

Concern for what could be: a design orientation

Move of researchers and designers toward users



Move of users toward researchers and designers

Concern for what could be: a design orientation

Move of researchers and designers toward users

Discovering people's worldly ways and heartfelt desires through an ethnography of communal engagement that seeks inspiration, not simply data, that is based on **empathy**, not detachment. Co-design **Design** Lead user approach ethnography **Participatory** Ethnography design

Move of users toward researchers and designers

