

Guide Description:

As part of the Techno-Galactic Software Observatory, we will collectively produce a Software Observation Guide [[so, not survival ... Software REVIVAL Guide - think important to insist on observation]]. The guide will lay out ways to achieve critical distances from the seemingly endless software systems that surround us and will offer practical tools for the tactical (mis)use of software, empowering/enabling users to resist embedded paradigms and assumptions. The guide will include a description of the myths and realities of software, a list of currently available methods for approaching software including their risks and benefits, and a glossary of terms. Participants will contribute to the guide by naming and describing methods of observing software, by nominating and defining terms for the glossary, and by sharing personal stories of close encounters with software.

Saturday afternoon:

A document that can support the clinic with the work we have been doing so that you can know where the exercises came from

Printed menu/program?

People are interested in what we have done

For Group 0 For Monday - how will we get this produced? ie. naming convention or protocol for getting contributions from groups [[falling apart while/through being observed]] #include as way to copy/paste from pads for output sub-typing of .chapter.md or .section.md What do you want to do during the clinic? (searches through system for vocabulary?) What tools they know about, want to use, what they want to include

Introduction on Observation will be transcription of conversation tomorrow morning [which maybe then gets a light edit]]

Definitions of Software (collected from last few days, from online searches, relation between, from software studies)

On Expertise?

Intake - How to you address/approach observation

Questionnaire

Different relationship to expertise

Reflexivity (how will we observe ourselves)

Menu of Services

Elevator Performance

reverse engineering to flow chart

Agile Yoga

Renaming

Zenit interface analysis

pdftk

!http://etherbox.lan:9001/p/zenit.md!http://etherbox.lan:9001/p/part2.md!http://etherbox.lan/page/part2.pdf#page=21

...

Time conversion

!include time_conversion.md

Bestiary of Tools

pdftk — look at etherbox.md - look for apt-get install

Deeper questions/conversations that produced the exercises and that will be carried forward

Time Essay, written and visual essay

File/Data/Hardware/Software

What is Software/Becoming Software discussion notes

Research report from Flow Chart Ideology-what is it like to be an elevator?

Materials from the reader (or elsewhere) that have been touchstones

Kittler: There is no software

Neubert

. . .

Haraway

Close Encounters

Jean Heuns

Thomas

Selection of pictures from Computer Museum in Namur with captions

Vocabulary

Inoperations

Removal of Vocabulary

excercise: 1-reverse engineering of flow chart 1-zenith-modelinganalysis? 1-cultural symbol analysis?
 2-sitting in the middle of a room
 3- time converter? synchronizations?
 4-vocabolary operations.. as a service? 6-agile yoga
 tools: 1-flowchart 2-simmtm 3-unix-timebomb 4-aquinas?
 xx-intake scripts?
 other elemets: time-text aquinas man page zenithed flowcharts

Friday afternoon proposal for Guide structure and contributions

Table of Contents

Introduction

Reflecting on/performing observation and frameworks

Related Readings

Bare Necessities

Related Readings

Becoming Software, different ways of doing software history

Definitions of software: Origin stories, multiple births of software (when, where)

- Jean Heuns, Thomas C, ...
- <http://etherbox.local:9001/p/multiple-software-axes>
- <http://etherbox.local/home/pi/etherdump/axis-matrix.diff.html>

Doing software

- <http://etherbox.local:9001/p/ssogy.md>
- <http://etherbox.local/home/pi/etherdump/problem-atization-of-definitions.md.diff.html>

Software environments

- How to transform a sip-well into a fountain
- Files <http://etherbox.local/home/pi/etherdump/files.md>
- Time <http://etherbox.local/home/pi/etherdump/xxxxx>

Related Readings

Techniques of Observation

Methodologies

- <http://etherbox.local/home/pi/etherdump/side-channel-analysis.diff.html>

Tools

- wireshark
- oscilloscopes
- em probes
- something in the middle maybe (luis' tool, which could observe the software making requests instead of observing the people?)

- ...

Related Readings

Close Encounters with Software

Personal Stories, Anecdotes, Journals, written Reports from Clinic

- http://etherbox.local:9001/p/jans_heuns

Related Readings

Test Environments

- <http://etherbox.local/home/pi/etherdump/templatestyleguide.md.diff.html>
- <http://etherbox.local:9001/p/etherboxmanual.md>

Negotiating Time - Sundial Time Computer

Related Readings

Vocabulary

- <http://etherbox.local:9001/p/vocabulary.md>

[[notes and reflections on friday afternoon work on structure of guide. it feels a little rigid right now. in the desire to leave things open for what will happen in the next few days and to be responsive to what is currently emerging, we are letting go of many references to the survival guide, which is in turn leaving things a little general. what are the qualifying adjectives that we want to use? throughlines that are less obviously topical but have repeatedly emerged are ANIMALS, DIFFERENT TYPES OF TIME,]]

Discussion on Thursday afternoon

turning observation sideways
invasive observation
one minute it is about self-tracking, another on knowledge production
attention to the unequal power relation
observing software would set up
situated observation

why this focus observation? (so what is our agenda / what are our agendas)

- linked to politics of technology and power struggle
- interested in methods for feeling and granting agency and authorization to talk about and engage with software and technology
- stop using software as a user, to be able to annotate, to have a different relation. breaking routine
- interest in the act of observing itself, to debug and its politics
- stopping and observing, time to watch the software unfold

- the no distance: observation without distancing. [[two-slit experiment model of observation impacting system being observed ??]]
- ways to understand how the world works and be involved or extend the ways of being involved (not just the guys doing the brilliant work) but all of us
- the guide is important for having a wider range of tools that are available to be able to work with different software with different agencies (not just CS, hackers, programmers)
- different definitions of software providing possibilities for methodologies/techniques for observing
- our methods for observation, like mapping, come with their luggage. output from observation seems to require some relationship to representation...
- tool clinics: using observation as a tool for reflection and transformation. difference to design-crit. Care for not losing playfulness The idea that this person will not defend is that the propose intimacy and trust. The act of observation has a coincidence.

observation and speculation becoming ?

- how do you bring speculation to the present?
- thomas and his references to the real world: claustrophobic, here is where we are, the good guys and bad guys, let's expose these categories
- speculation in the sense of confusing and mixing who speaks who ask and about what
- SOFTWARE IS NOT A READY MADE THING
- becoming, and how, who
- does it help to bring fiction?
- Karen Barad, Meeting the Universe Halfway: Quantum Physics and the Entanglement of Matter and Meaning https://library.memoryoftheworld.org/b/wZAfhaCuiCv_eMO_m8kIKwsUGSxuT4ezhTfa0lEmDaSB0LFf

. . . and what about critique?

- how to make sure it is affirmative critique
- different spectra of critique (so task is to open up the spectrum of critique)
- every community has different norms of critique which come with a set of ground truth assumptions they will not question)
- reparative vs paranoid forms of critique ((Eve Sedgwick - https://www.dropbox.com/personal?preview=Teaching%2FNMRs%2FReadings%2FSedgwick_paranoid+and+reparative+reading.pdf.) **paranoid: You re fighting with ideologies, looking at gaps that can be attended to.** empowering and reclaim (Isabelle Stengers) *** with critique we think we are empowering people *** but we may be reclaiming positions, find another position ** reparative: trying to understand, you are not distanced from the system, but you are with it and trying to be generous
- many channels to give input and feedback in free software but if it doesn't fit into a certain range /

template there's no place to send it to

observation and critique:

- affirmative, reparative and not paranoid
- observation becomes a way to formulate the critique from understanding what is put in front of you
- you engage through observation, and not as an alien coming in

is it the difference between passive and active observation

- which one is the reparative?

how about kinds of action:

- actively not doing, passive, is also doing

who is the audience for this work of observation?

for us, and who are we non experts and experts keeping the conversation flowing instead of a one-way channel of communication patience and generosity respectful and disrespectful accessibility (depends on what you are looking at) confusion what are our core values and ground truths? bringing our concerns and issues in the debate patience and generosity theory of power attention and care agency, choices take the time, time to observe confusion play situated observation and knowledge <http://www.staff.amu.edu.pl/~ewa/Haraway,%20Situating%20Knowledges.pdf> What to do with observations? what do observations do with us? immediate/intended/unintended consequences meta-observation/long duree of observation/impact observation relational observations

nice to have: what are the tools that we currently use -> see below techniques of observation Mapping (?) observations atlas - collection of representations constellation is map/representation compass (ref. speculative design) - tool of navigation Collection Observation can be captured by devices

- A collection of software definitions Is it the scale of the observation?

"to make a system that allows observation only, it seems rather impossible"
Techniques of the observer - note taking -command line -debugging -browser dev tools - poking around -sniffing -conversation distancing no distancing critique Enactments/Forms of Observations Representations Simulations (Models?) Reparative Critique (Eve Sedgwick

-https://www.dropbox.com/personal?preview=Teaching%2FNMRS%2FReadings%2FSedgwick_paranoid+and+reparative+reading.pdf.)

Table of Contents:

Inspiring section from the SAS survival handbook ; strategy (strategy to study software...) camp craft (tools, set up our observatory, finding our research site...) reading the signs (signs of problems, traces of solutions, hidden paths of inquiry...) disasters (software breakdowns, reading the ruins, tactical practices of provoking a breakdown)

Myths and Realities

Paradigms and Assumptions (ex: user vs programmer. hardware vs software, . . .)

What are the paradigms of software ? Kittler basically said : "there is no software, it is only text manipulation", it is a call to study the materiality of tech. Software is a construction in this sense. The paradigm is : softwares are intermediaries, interfaces, layers ? Delegating blame and responsibility to software (how it migrates to the system, the machine, etc) Are we blaming the software because we cannot blame somebody else ? vs. specific choices made by developers - where does the responsibility for systemic racism lie, for ex. What is logged by a system? How to read log files? How to recognise a software system and what are its boundaries ? Manifestos of blaming/ Normativity of software (the many "right ways" to do software) * Manifestos as programmers' tools agile: process as an outcome implementing agile involves one guy reading the book building software under the contingencies of a moving target Task analysis: starting point software development what is a task, how can this become entangled with more playful takes on observations

Origin Stories - The Multiple Births of Software (and the consequences of each of these definitions, for how they can be observed, the perspectives they produce, with what agendas they are proposed)

Materiality, abstraction and the different axis - legal when are the first software patents? responsibility The break-up of AT&T and the end of its monopoly allowed to sell unix licenses <https://www.freebsd.org/doc/en/articles/bsd1-gpl/unix-license.html> - professional jobs division of labor user/producer - as language, different from data - in hardware - etymology - personal histories - as individual experience with and feelings about software - as data to be sold as product - as data

to be used in engineering of software - as a configuration - as a signal - through tools

Tools and concepts

* toolchain: not just crafting software from scratch but set
* repositories:
* dependencies
package managers take care of dependencies

- reverse engineering
 - clean room implementation
 - follow the money (political economic analysis) ## Translation (and or as conversion)
- translators

A list of tools - wireshark - oscilloscopes (very cool ones) - em probes (antennas) -

Recognizing software

How does software emerge and spread?

Detecting traces of software (on other surfaces, materials, physical spaces?)

Exercises for experiencing software (performing it, re-enacting, sensing, making it tangible)

Close encounters with software (journals for/from walk-in clinic . . . or before? after?)

Methods for interfering with software (recipes ?), 'tactical (mis)use' (draw it boundaries, count the layers inside)

Detournement of security tools for observation - conventional tools for observation used/applied/appropriated in a different way

On Contexts and Movements Between

Appendix

Affordances and limits of different distinctions/drawing lines
- ie. there is/what is the difference between data and execution

Reader (= edited/updated/completed reader?)

<http://etherbox.local:9001/p/reader.md>

Douglas Adams

Margaret Atwood

Eve Sedgwick

I proposed another text from wendy chun in the reader pad

a map somehow, in time and space, of software observations

Topics PING : Network command to check the identity of a server ping as a way to do observation (and also pong) ping as a command, to connect to a server

AND

pong (& mechanical pong - niklas roy ?)

ANIMALS (as logos, as observers, as ??)

* bugreporting / between observation and action

A list of existing tools for observing software The menagerie of tools including the Zebra and the Giraffe, wearing magnify glasses, software called Zookeeper. Why a giraffe? Because of the big neck? Why not birds?

* Apache Zookeeper

<https://zookeeper.apache.org/>

* O'Reilly media book covers also are animals, one animal = one methods or programming language

Reporting strategy

Delegating blame and responsibilities to software "Computer said no" How to blame software (?) in different situations?

ways to critique systemic issues in software forms of critique

Some way to discover/see what are the boundaries of the software system?

A list of programming manifestos - ways developers re-invent the writing of software (Luis cringing when agile manifesto comes up. It is too hard to get out of because it never ends!) what is made agile ... moving targets

Testing and reporting are now included in the software development process, and more difficult to take separately.

task analysis how to (re)define tasks and other software design process stages: flowcharts, wireframes, scenarios - this may be only applicable on conventional software, wonder how this way of observation may be applied in experimental and conceptual software (there were some interesting flowchart-"sjabloon" in the museum)

"agile in a narrow space"

Observation methods/tools related to toolchains and pipelines "the house of cards of software" and "when you update your system, one of the cards might fall" repositories and where things come from.

Observation methods/tools related to package management automated process that takes care of everything you need dependencies, checking dependencies (so also the opposite boxing/containerization) multi-platform, a way of putting the program next to your ...

reverse engineering : you have insight into the methods clean-room implementations: if a company wants to reproduce a product, but the people involved cannot be tainted by having seen the original one they are put into a "clean room" with the specification to avoid being legally tainted [so: methods for knowing it was really "from scratch". how do you know the room is clean]

Lets do an exercise using axis metaphors instead of line metaphors and see when and where things start blurring

MANUAL TO ETHERBOX MOVED HERE

[http://etherbox.local:](http://etherbox.local:9001/p/etherboxmanual.md)

[9001/p/etherboxmanual.md](http://etherbox.local:9001/p/etherboxmanual.md)

NOTES ON WEDNESDAY AFTERNOON SESSION

<http://etherbox.local:9001/p/files.md>

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NOTES ON THURSDAY SESSION <http://etherbox.local:9001/p/thursday> and on SIDE CHANNEL ANAL-

YSIS <http://etherbox.local:9001/p/side-channel-analysis>

YSIS <http://etherbox.local:9001/p/side-channel-analysis>