

Memory and self-dismantling in social experiments: anthropological physics and technoxamanic heys (ebós)

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Abstract

Both mythological and hacker histories have recognized roles for self-dismantling: it protects the messenger, facilitates the detachment from the self-image, is an artistic technique, etc. Brazil has an evident part in this context, for it proclaims religious freedom since the colonization and beforehand (through ecumenical natives), and holds a renowned and visceral hacker trace: the kludge culture (aka. 'cultura da gambiarra'). This article exposes this legacy by two means: 1) the description of social experiments made by many participants at once; 2) memorials of images, videos, texts, music, webpages, groups, avatars/nicks/pseudonyms, presentations, etc. This text is itself an experiment, and will be fed back to the community for comments before publishing, as usual with any *anthropological physics* experiment. The materials herein are no secret, and are usually unpublished, although most of it is not bind to a DOI or an ISBN/ISSN. Further directions are given as seminal ideas because next steps will be given by the community upon diverse interests and context stonework.

Index terms— anthropological physics, technoxamanism, memorial, complex networks, data mining

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1 What? or motivation

The main motivation of what is described here was and is to enable participants to take action in their networks by means of scientific knowledge. Such networks are complex and social topological structures that are embedded in, and embed, other complex systems. The ethic issues that arise when experimenting with other humans are ameliorated by following *anthropological physics* [1, 2, 3] guidelines: researchers or activists should keep the endeavors as open as possible (texts, software, data, processes, outcomes, people involved, etc) while studying and experimenting in their own networks; a trace inherited from ethnography and similar to the technique/strategy of writing diaries.

2 How? or social, technoxamanic experiments of Collection and Diffusion of information

Many experiments were carried out by diverse human agents, either directly or through a second/fake/pseudonym/avatar/nick profile, i.e. people, for various reasons, made conscious efforts in order to interact with their networks to achieve specific goals or inspect the outcome. Two examples are very efficient in exposing the procedures and potentials: one that is continuous within few months, another that is ephemeral and occurs in only a few hours or less. In such a diversity-rich setting, these experimental procedures were called *technoxamanic experiments* (or 'heys' for Brazilian Portuguese 'ebós').

2.1 the Cow of the End of the World (continuous experiment): progressive network activation from Peripherals to Hubs for a crowdfunding

This is maybe the most powerful mechanism by which we performed collection and diffusion of information. The results were very effective in spreading information about social networks, in gathering knowledge from diverse parties and in modifying the social structures in which I participate. Most concretely, academics came to São Carlos for formal meetings, new collaborations were established (such a UNDP grant were the Brazilian Presidency signed as beneficiary, as described in the Appendix C of [3]), money was obtained (various

contributors transferred a total of about 3000 Brazilian Reais) and my Facebook network increased about 50% with individuals interested in the research. The process consisted in:

1. Downloading my Facebook friendship network. This was done by means of the Netvizz software, which is not possible nowadays and requires scraping of Facebook pages because of new usage terms.
2. Sorting my friends from the less connected to the more connected, i.e. from my friends that have less friends in common with me to the ones that have more friends in common; i.e. from periphery to hubs.
3. Sending private messages for each of my friends, in such order. The messages were derived from a template I conceived in which I exposed the research and the information diffusion process.
4. Making steps 1-3 for three times.

In each cycle of steps 1-3, my friendship network grew about 15% and there were typical reactions in each cycle. In the first cycle, estrangement was ubiquitous and the replies were e.g. “what are these network structures?”, “what are you doing? I can’t understand!”, “I never thought of such a thing as these networks”. In the second cycle, they replied with interest and support. In the third cycle, they engaged in establishing collaborations with visits, in the elaboration of documents and technologies and in co-working proposals.

The data related to these three cycles can be downloaded in the personal data Facebook interface, and then analysed. The experiment was carried in scientific terms and initial hypothesis were confirmed by these results. Even so, these results are not still confirmed by performing the experiment again, which poses both a problem and a potential scientific undertake. Given that the diffusion process was done in Dec/2012-Jan/2013, it was frequently considered by fellow specialists as having some influence in the civil society mobilization that occurred in Brazil in Mar/2013 and thereafter. A very simple PDF document was built afterwards for delivering back these results to the networks [4].

2.2 Betweenness VS Closeness centralities (ephemeral experiment)

This was first thought about in meetings with the artist and activist Pedro Paulo Rocha. The idea was to activate the network not by means of a long-standing process such as described in the last section, but by an ephemeral endeavor. There were some artistic performances with this proposal, in which I did not participate. Nevertheless, there was one of these instantaneous activation processes that I have done in conjunction with other specialists which was rather interesting. In analyzing Facebook ego friendship networks, I found that the set of ≈ 50 members with the greatest betweenness centrality was disjoint with the set of ≈ 50 members with the greatest closeness centrality, which is very unexpected. Therefore I proposed that one should send the same message to both set of friends separately. The messages were different for each person performing the experiment, and it was about something they were interested in and wanted to spread and get feedback. The result was systematic: the set

of friends with greatest betweenness always reacted very friendly with encouraging messages and sharing the original message in their timelines. The set of friends with greatest closeness always reacted with many leaving the chat group and with no replies. We hypothesize that these reactions are because the large betweenness set of friends is more likely to have control over the information flowing in the corresponding ego network while the large closeness set of friends is more likely to observe/receive influence by the information. This experiment was performed by partners related to the consulting reported in Section 2.1 and other partners involved in making an international technoxamanic festival.

A couple of years after these experiments, I made some visualizations to confirm or refute that the highest closeness and betweenness are not the same participants. The result was rather interesting: they were the same. So either the Gephi algorithm used in 2014 is distinct from the one used by NetworkX (in 2017) or something was done wrong, such as a human error or a bug.

2.3 massive tagging (semi-ephemeral experiment)

One very simple process by which collection and diffusion of information is being performed is by tagging many friends in Facebook posts. Currently, one can tag up to 99 friends in a post and we did not find any limit for tagging friends in comments. If one makes abusive use of tagging (too many posts or too many comments) the Facebook platform sometimes restricts the permissions of that user. Even so, I have made many posts with up to 99 friends tagged and tagged more friends in the comments and made experiments such as the ones described in the last sections and never got restricted. It seems that the platform has some automated behavior but employees actually perform the restrictions at least in some cases. The employees might check the posts, tagging and messages to see if it is really spam or in anyway abusive. In [5] are some notes and data of one of these experiments (and a preliminary script for analysis). The *anthropological physics* guidelines [1, 2] probably prevented these open, collective and scientific experiments from getting restrictions. This hypothesis should be verified through direct contact with Facebook data scientists, or by further testing the platform.

Another powerful way by which many times diffusion and collection (of information?) is performed is by crossposting, i.e. by sending a message to many email lists at the same time. Most participants find crossposting (very) effective but email list users also (rarely) report understanding such practice as abusive. E.g. no one sent (me) a message reporting discomfort with (my) crossposts. There was one occasion some years ago when a user replied with a challenge for arguing why the crosspost what appropriate and then made some good contributions. I personally perceive that this prejudice against crosspost is one of the main reasons why email groups are losing users to other communication protocols such as provided by Facebook, Whatsapp, Telegram and Diaspora.

2.4 video-conferences, etherpads, websites, gadgets, and whatnot

Trivial, but relevant to notice here that periodic meetings are often held (for diverse purposes and within arbitrary (social and technological) protocols. Texts are yield by many writers at the same time using e.g. Etherpads (and Google

Docs, but less frequent). Websites and numerous software gadgets [6] were used to make content and routines freely available. All these resources are described in the Appendix C of [3].

3 so What and How? or the outcomes

Section 2.1 describes a procedure that resulted in relevant professional, personal and financial achievements. Sections 2.2-2.4 are directly linked to cultural identity and effervescence. Next section mentions the media legacy entailed.

4 What by Whom? or galleries / memorial

Many of the agents are listed in Appendix A. Posts with many tagged people (100 at most, although citing friends in comments is less restricted in Facebook)) are in Appendix C. Websites, groups, videos, image galleries, texts, music, ontologies and vocabularies, are all in the listings of the Appendixes.

5 What shall we remember? or Memory and Narrative

In fact, the social participation ontologies and vocabularies in [3] are being worked on only (or mostly) academically. There have been no evidence that the UN or the Brazilian Presidency are using such formalized conceptualizations for discussions or to link and make available State-related data. The Nexus (interdisciplinary research) group is very active nationwide, and have provided insights grounded on the *critical theory* tradition [2, 3]. The narrative of opening our State, Government, and Civil Society structures and mannerisms has raised in scope, which is the core improvement of all the efforts exposed in this document. Next steps might be taken in the direction of minimizing imprecision in personal and institutional data, potentially though DLT (e.g. blockchain) and Linked Data/Semantic Web.

5.1 A word about restriction of access and privacy

Our social networking platforms are not optimized for indexing activity and found resources. This adds to a deficient use of our own social structures, of our own private and public data. Participatory democracy (e.g. liquid democracy) becomes less prominent, private messages are valued in prejudice of open communication.

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Appendixes

This appendix holds a memorial through short contextualizations and listings. Following the *anthropological physics* guidelines to ameliorate ethic issues, the materials are as related to the author as possible, considering the reasons and relevance of the exposition.

A avatars/nicks/pseudonyms

B websites

C posts

D groups

labmacambira, metareciclagem, submidialogia, tecnomagias grupos do fb canais de irc

E videos

F image galleries

G texts

nuvens cognitivas tese e dissertacao

H musical pieces

half shape

I ontologies and vocabularies