FROM SURVEILLANCE CAPITALISM TO GLITCH CAPITALISM

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PROFILING
THE PROFILERS

SOUSVEILLANCE
OF BIG TECH
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OWN TOOLS

DISNOVATION.ORG
PROFILING THE PROFILERS
SOUSVEILLANCE OF BIG TECH COMPANIES
USING THEIR OWN TOOLS

Based on state of the art big data analytics techniques, *Profiling The Profilers* is an artwork that generates a series of highly detailed digital profiles of Big Tech companies—i.e. psychological, cultural and political profiles—similar to the ones constantly generated for each user by these very same companies. In other words, this algorithm performs a *sousveillance* of Big Tech companies using their own tools.
From Surveillance Capitalism to Glitch Capitalism

Today’s Internet platforms are overly financed by advertisements. With 80% of global personal data which they offer to advertisers and third parties under unregulated policies, the major Big Tech companies (i.e., Google, Amazon, Apple, Facebook and Microsoft) became pivotal actors in the shift towards the era of digital post-truth and the influence industry: micro-profiling, disinformation campaigns, bots, illegal data harvesting, troll farms, persuasive design.

This shift, contemporary to the emergence of the web 2.0, has been analyzed and problematized notably by Shoshana Zuboff. Surveillance capitalism is a “radically disembedded and extractive variant of information capitalism based on the commodification of ‘reality’ and its transformation into behavioral data for analysis and sales”.

The extent of the process of automatization and surveillance is such, that our society has become an open laboratory for capitalist optimization. In April 2018, Malcolm Harris wrote about the concept of “glitch capitalism” for the *Intelligencer*. “The whole Silicon Valley ethos of ‘move fast, break things’ is essentially an endorsement of the glitch as a mode of production. America looks like a glitchy computer, and it’s because capitalism is a machine language, reducible to numbers. America exists to create wealth, and the system isn’t broken, it’s just obeying the rules to disaster; as a country, we’re more ourselves than ever”.

User Profiling

Digital profiling is the process of gathering and analyzing information about an individual that exists online. This is the use of algorithms or other mathematical techniques that allow the discovery of patterns or correlations in large quantities of data, aggregated in databases. A digital profile can include information about personal characteristics, behaviors, affiliations, connections and interactions.

Easily accessible digital records of behavior (i.e., Facebook likes) can be used to automatically and quite accurately predict a range of highly sensitive personal attributes including: sexual orientation, ethnicity, religious and political views, personality traits, intelligence, happiness, use of addictive substances, parental separation, age, and gender.

The information environment has become the new modern battlefield where state and non-state actors employ sophisticated techniques for targeting, propaganda and disinformation (dark advertisements, nudging, algorithmic biases, social bots, sockpuppets, black propaganda, click farms...).
Counter Profiling
As a response to this information asymmetry, we seized the means of data analytics to create a series of psychological, cultural and political profiles of the most data-extractivist Big Tech companies of our time: GAFAM, NATU, BATX, and others.

To do so, we worked for a year with dr. José Lages and his research team from Institut UTINAM, Besançon, France. In order to “infer hidden causal relations” between Big Tech companies and specific societal and political issues, we are using an algorithmic method derived from PageRank (reduced Google matrix analysis) to analyse the matrix of every possible link between every single Wikipedia article.

Similar algorithmic methods are often used in data science, data journalism, and for probabilistic user profiling. It allows to estimate the strength of the hidden relations between various members (articles, pages, users) of the studied network (for instance between a user and an item for the purpose of product recommendation).

These automated actions result in a series of highly detailed, and biased, digital profiles of big tech, similar to the ones constantly generated for each user by these very same companies.
Targeting Big Tech Companies
GAFAM (Google, Apple, Facebook, Amazon, Microsoft)
NATU (Netflix, Airbnb, Tesla, Uber)
BATX (Baidu, Alibaba, Tencent, Xiaomi)

Rather than simply following the same categories as the ones usually tracked for the profiling and prediction of users' activity (age group, demographic, consumer behaviour, location, income group, etc.), we augmented these categories with additional critical insights, specifically relevant for Big Tech (political orientation, ethical orientation, propaganda techniques, type of induced addictions, types of biases, etc.).

This counter-profiling data will be continuously released on a dedicated platform as notifications, optimized for social media sharing by each visitor. This will result in a distributed counter-propaganda campaign, eventually polluting the social feeds of Big Tech companies.
Selection of scientific studies that applied Google matrix to datamine in various fields:

1. Capturing the influence of geopolitical ties from Wikipedia with reduced Google matrix [paper], Samer el Zant, Katia Jaffres-runser, Dima L. Shepelyansky.

2.Inferring hidden causal relations between pathway members using reduced Google matrix of directed biological networks [paper], José Lages, Dima L. Shepelyansky, Andrei Zinovyev.


Private traits and attributes are predictable from digital records of human behavior, Michal Kosinski, David Stillwell, and Thore Graepel.
Edited by Kenneth Wachter, University of California, Berkeley, CA, and approved Feb. 12, 2013 (received for review Oct. 29, 2012).
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PROFILING
THE PROFILERS

EXCESSIVE
BIG-DATA MINING
AS A RIPOSTE
STRATEGY

ALESSANDRO
LUDOVICO
What should be the role of art in the current tyrannical ecology of online information, dominated globally by a handful of Big Tech corporations who possess 80% of our online personal data [1]? If we can find clues in the less complex previous decades, then it should not be too hard to find examples in contemporary art of dissecting and reformulating the “power,” breaking its inaccessible overarching aura, and formulating strategies to de-escalate it to the mundane level and, in doing so, in some way annihilating its own ruling demeanour.

In the last few years, DISNOVATION.ORG have questioned the hegemonic ecologies of information at different levels throughout their own artistic practice. They have ironically researched and explored the technical edges of monopolistic AI in Predictive Art Bot, a bot using headlines to predict art concepts. Similarly they have engaged in the flourishing and unstoppable underground of infinite copying in The Pirate Cinema, a real-time visualisation of the continuously exchanged movie files. Their latest articulation of a conceptual information resistance is The Web Politics Trilogy, a trilogy of artworks systematically addressing key aspects of our information ecology.

In the first artwork The Persuadables, a minimal glossary of strategies used to effectively manipulate opinions online on any scale is compiled and illustrated. It takes the form of a video, fully opening the Pandora’s vases of these manipulative techniques, thereby exposing how they accomplish their goals. It is a frightening and accurate explanation, in the tradition of disenchanted avant-garde and counter-cultural debunking systems of power. And it poses a critical systemic issue, still largely unanswered at legal, political and cultural levels.
The second artwork in the trilogy is the *Online Culture Wars* map, produced in various formats, including a freely downloadable PDF or printed as a classic stack of take-away touristic maps. It provides an iconographic synthesis of controversial online symbols and agents in a compact form. It positions the most popular visual elements of online “wars” as universal triggers in the form of shared codes and symbols, feeding instant online political frictions. If Josh On’s *We Rule* [2] painstakingly compiled his own datasets, rendering them as a dynamic, explorable picture of the American ruling elite in the early 2000s, this work agglomerates the self-empowered signifiers of online debates’ hyper-inflated world, expressing a similarly disturbing concentration of power and influence.

After *The Persuadables*, that compiled the essential list of concepts in order to fully comprehend the ecological information crisis, the *Online Culture Wars* map provides the compass to orientate us through its visual assault. They complement each other in understanding the same scattered but solid conceptual structure of dominance, thereby contributing to develop a critical awareness and acting as discussion starters. Both intrinsically are instrumental in reversing the online power games, or the consolidated relationships reinforced by the distributed and disguised online propaganda.

As a follow up to these two strategic tools (a comprehensive map and a revealing glossary), the last part of the trilogy *Profiling the Profilers* presents a symbolic action to re-appropriate the lost space of direct dialogue with the infrastructure’s owners. *Profiling the Profilers* is DISNOVATION.ORG’s counter narrative to data extractivism. It is based on an app created with scientific support of the Institut UTINAM in France, specialised in big data analytics techniques. In this work, public datasets and machine learning approaches have been used to create “psychological, cultural and political” profiles of Big Tech companies like Apple, Facebook, Google, Amazon, Microsoft and many others. The
process involves a deep data analysis conducted in the same fashion the targeted companies are conducting their activities to profile their customers. The duo have then developed a bot that discovers and extracts meaning from the hidden links among different datasets related to these companies, quantifying their association and embodiment of specific values. They have structured this action in order to “infer hidden causal relations” between Big Tech companies and specific societal and political issues [3]. The relevant discoveries of the profiling process are shared as notifications to a mass of users who can then disseminate them on the official social media channels of the companies, collectively exposing them in a new more comprehensive fashion.

Within the visual interface of this app, the consistency of the results being calculated live and animated is highly shareable on social media. Its aesthetics conceptually render the algorithms subsequently, and the political statement in the computed associations is sublimated in the invitation to share it right away on social media. It is a minimal time required for the active calculation of possible meaning, which then translates into potential action shortly afterwards. The user is accompanied through a fast, new and challenging interrelation up to the point of advocating it.

In its installation form, the smartphone screen is scaled up to the size of a digital billboard (“targeting the Big-Tech, instead of common users” in the artists’ words), shrink-wrapped together with boxes on a standard Euro-pallet (a “representation of the physicality of the industrial”). Here, the physical presence of a delivery is symbolically functional of the “upstream” tech corporations’ need, and it couples with the downstream induced by the use of these platforms (the ad hoc advertisement, the notifications, the e-commerce, etc.). The installation is embodied both in its sculptural form and in the impalpable form of the process flowing (from calculation to social media post). It becomes a nearly monumental representation of the parallel mass-scale
global operations exchange: the capital delivering its goods through globalised shipping, and the data economy computing its results and pervading the social media.

The companies involved in this work are perceived as shiny and huge impenetrable entities, which will be then “profiled back” for what they truly are: enormous media infrastructures of influential content and socio-political disruption, not just mere IT giants, as usually perceived by common sense. In this respect DISNOVATION.ORG is applying Greg Elmer’s definition: “to profile is to attempt to account for the unknown—our inability to adequately capture, contain, or regulate and govern behaviour, thought, language, and action.” [4] Their “unknown,” here, starts to be unveiled, and it relates directly to both classic profiling techniques and investigative journalism.

But as art historian Antonia Majaca mentioned during a public debate at the Venice Biennale [5], this is the time of a different AI, the “Artist’s Intelligence,” which should provide the criticism mostly lost in the algorithms, and the consequent original contribution to the collective elaboration of strategies. The artists are acting as a subversive short circuit, using the same oppressing infrastructure. Like Cildo Meireles, who in his Ideological Circuits: Coca-Cola Project altered and redistributed reusable Coca-Cola bottles in 1970, adding rebellious or philosophical content, which was mimicking the brand design in its inscriptions [6].

DISNOVATION.ORG equally intervenes in the guarded territories of communication with a political statement. On one hand, they prove how the propaganda of the Big Tech sector is disproportionately powerful: they cannot compete with the economic and legal armies of these companies. Yet they also hint at the scale of the bias which is polluting the algorithms, organising a symbolic counter-act. They are formulating and then “publishing” algorithmic inferences which are meant to be shared and possibly discussed. They will make a public call by launching the app,
to send back the companies’ propaganda info-toxins, creating
conceptual antibodies, collectively metabolized. The single
individual can have, then, an important role, contributing to
counter-propaganda which is developed through humour and by
adopting a Dada-like attitude. This almost desperate attempt to
interact with these abstract giants (which are hard to locate and
address physically) is a direct way of talking back. So, if current
AI is mostly a vertical type of intelligence, hyper specialized in
a narrow set of purposes and tasks, not dissimilar to what we
often hear about academia, DISNOVATION.ORG’s artist intelli-
gence is acting and talking back and, in doing so, redefining the
public image of these media giants through a collective debate,
fuelled by inscrutable machines’ calculations.

—Alessandro Ludovico
NOTES

1 Reportage by Canal+ “Big Data: les nouveaux devins” https://www.youtube.com/watch?v=5mmQeb8mXVk&feature=youtu.be


3 Inga Seidler, Schloss—Post, Issue No 0 —“Digital Culture, Theory & Art, From Surveillance Capitalism to Glitch Capitalism, Interview with DISNOVATION.ORG”-Sep 05, 2019 https://schloss-post.com/from-surveillance-capitalism-to-glitch-capitalism/


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FROM
SURVEILLANCE
CAPITALISM
TO GLITCH
CAPITALISM

INTERVIEW BY
INGA SEIDLER
Inga Seidler: Your proposal says: Profiling the Profilers will result in a “series of highly detailed, and biased, digital profiles of Big Tech, similar to the ones constantly generated for each user by these very same companies, and then result in a distributed counter-propaganda campaign, eventually polluting the social feeds of Big Tech companies”. Could you explain in more detail—what kind of information are you interested in with regards to GAFAM? What kind of data are you collecting? And how could these profiles look like?

DISNOVATION.ORG: With this new project, Profiling the Profilers, the first idea was to attempt a simple, but almost impossible action: reverse the surveillance of the Big Tech companies using their own tools & methods. To do so, we spent one year working with Dr. José Lages and his research team from Institut UTINAM, in Besançon. Based on state of the art big data analytics techniques, this work will generate a series of highly detailed digital profiles of Big Tech companies (ie. psychological, cultural and political profiles), similar to the ones constantly generated for each user by these very same companies.

To assemble these digital profiles, rather than simply follow the same categories as the ones usually tracked for the profiling and prediction of users’ activity (age group, demographic, consumer behaviour, location, income group, etc.), we will augment these categories with additional critical insights, specifically relevant for Big Tech (political orientation, ethical orientation, propaganda techniques, type of induced addictions, types of biases, etc.).

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IS: What can we expect from the project / the research material / preview of the project as you will publish it on Schlosspost, who created the materials and how?

D: The first release on Schlosspost will be focusing on our research material and the core elements of our work methodology. A few weeks later, we will release the interactive online project. The algorithm we used is based on the research of Dr. José Lages’ team, and the programming is done with our long time collaborator Jerome Saint-Clair. Our article on Schlosspost will include academic references, articles, and visual elements, for instance on online persuasion, surveillance capitalism, or this fascinating article about glitch capitalism.

IS: What are the next steps / different formats the project will take on?

D: We’re presently in a residency with M-Cult (Helsinki) and Emap to finalize this installation. We will release the online project this fall, and then the exhibition version in November 2019. The online project will also unfold over time, as users eventually take part in the sharing of the counter-propaganda developed by the “Profiling The Profilers” bot. As users will share or repost some of the generated counter-recommendations, these posts will end up polluting the feeds, and the hashtags of the targeted Big Tech companies.

The interview was conducted by Inga Seidler.
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PROFILING THE PROFILERS
PROTOTYPES & EXHIBITION VIEWS
Profiling The Profilers (3D scan), La Gaité Lyrique, Paris (2019).
Profiling The Profilers (3D scan), La Gaité Lyrique, Paris (2019).
PROFILING THE PROFILERS (2018-2019)

profilingtheprofilers.com

A project by DISNOVATION.ORG (Nicolas Maigret & Maria Roszkowska)

Programming by Jerome Saint-Clair

Space design Lucie Gautrain

Graphic design Maria Roszkowska (DISNOVATION.ORG)

Translation Themba Bhebhe (“Profiling the Profilers, Excessive Big-Data Mining as a Riposte Strategy”)

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Exhibited at:
V2: Launch @ HASH Awards, ZKM, Karlsruhe, 2020 [DE]
V1: Festival accès(s) #20, Pau, 2020 [FR]
V1: BIO26 the Design Biennial, Ljubljana, 2020 [SLO]
V1: Network Effects, Oodi, Helsinki, 2019 [FI]
V0: MUTEK-SF, San Francisco, 2019 [USA]
V0: Institut UTINAM, CNRS, Besançon, 2018 [FR]
V0: The New Newsroom, MU Artspace, Eindhoven, 2018 [NL]
V0: Im Zweifel für den Zweifel, NRW-Forum, Düsseldorf, 2018 [DE]
BASED ON STATE OF THE ART BIG DATA ANALYTICS TECHNIQUES, ‘PROFILING THE PROFILERS’ GENERATES A SERIES OF DETAILED DIGITAL PROFILES OF BIG TECH COMPANIES — IE. PSYCHOLOGICAL, CULTURAL AND POLITICAL PROFILES — SIMILAR TO THE ONES CONSTANTLY GENERATED FOR EACH USER BY THESE VERY SAME COMPANIES. IN OTHER WORDS, THIS ALGORITHM PERFORMS A SOUSVEILLANCE OF BIG TECH COMPANIES USING THEIR OWN TOOLS.