

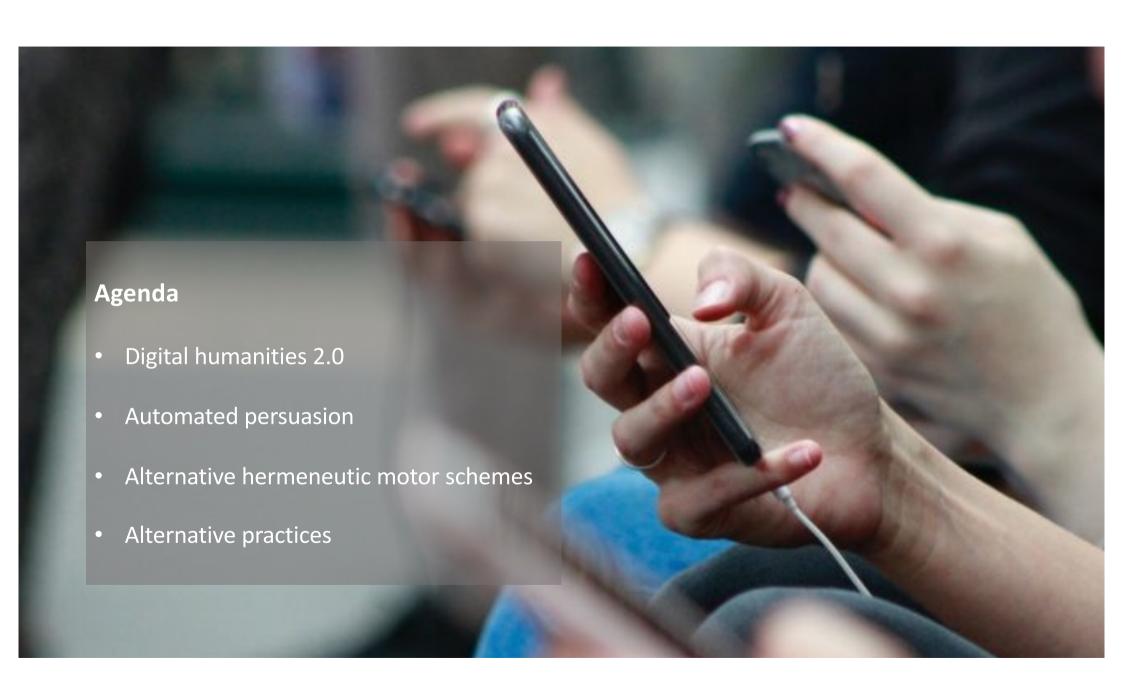


Algorithms, data & democracy

Controversies regarding the digitalization and datafication of democracy currently develop along two interrelated axes; algorithmic infrastructures intensify and polarize issues of public concern while algorithmic decision-making is detached from citizen scrutiny and deliberation. The ADD-project focuses on these sociotechnical dynamics in an effort to reconfigure the algorithmic organization of data and strengthen digital democracy.

THE VELUX FOUNDATIONS

VILLUM FONDEN > VELUX FONDEN





"I argue that to understand the contemporary born-digital culture and the everyday practices that populate it – the focus of a digital humanities second wave – we need a corresponding focus on the *computer code* that is entangled with all aspects of our lives, including reflexivity about how much code is infiltrating the academy itself."

(Berry, 2011: 4, emphasis added)

Thinking with automated persuasion

rhetorical { code } studies

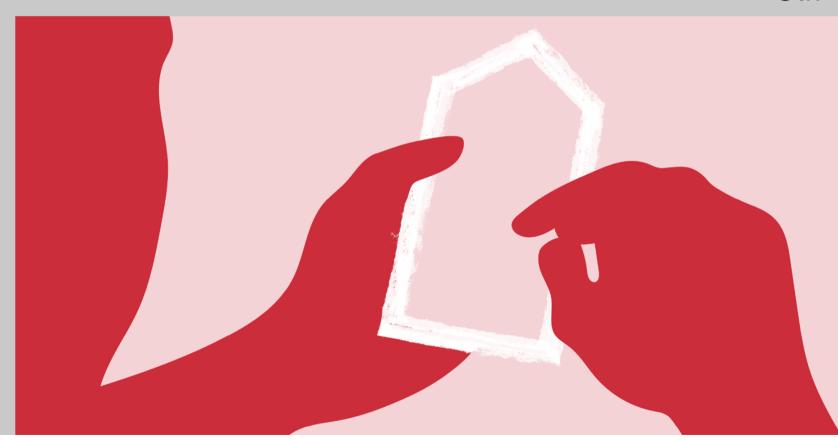
discovering.arguments in.and.around.code

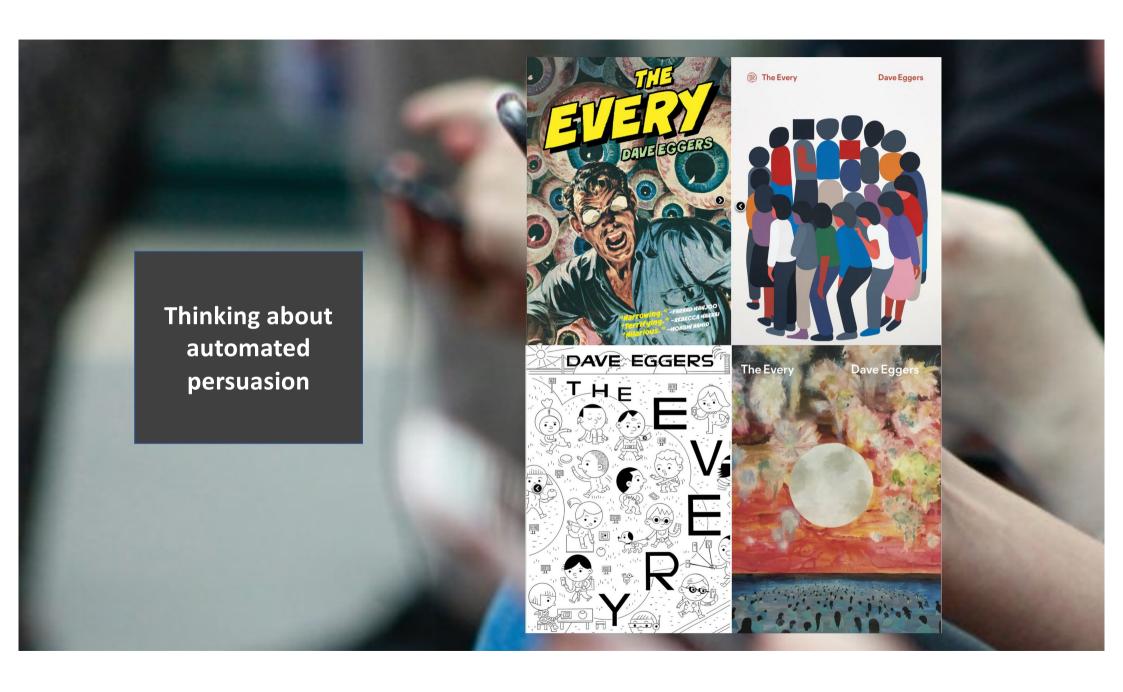
```
Cyborg.prototype.randomize = function(list) {
   randomTerm = list[Math.floor(Math.random() * (list.length))];
   return randomTerm;
}
Cyborg.prototype.enthymemeGenerate = function() {
   amount = this.randomize(quantity);
   subject1 = this.randomize(noun);
   subject2 = this.randomize(noun);
   action = this.randomize(verb);
   directObject = this.randomize(noun);
   this.sentence("major", amount, subject1, subject2, action, directObject);
   this.sentence("minor", amount, subject1, subject2, action, directObject);
   return output;
```

Angreb i den offentlige debat på Facebook

Analyse & Tal F.M.B.A har med støtte fra TrygFonden udviklet den hidtil mest avancerede dansksprogede algoritme til detektion af angreb i den offentlige debat på Facebook. Baseret på assisteret maskinlæring og deep learning-teknologi er det nu muligt at kortlægge andelen af hhv. angreb, anstødeligt og hadefuldt sprog i kommentarsporene på offentlige danske Facebooksider.

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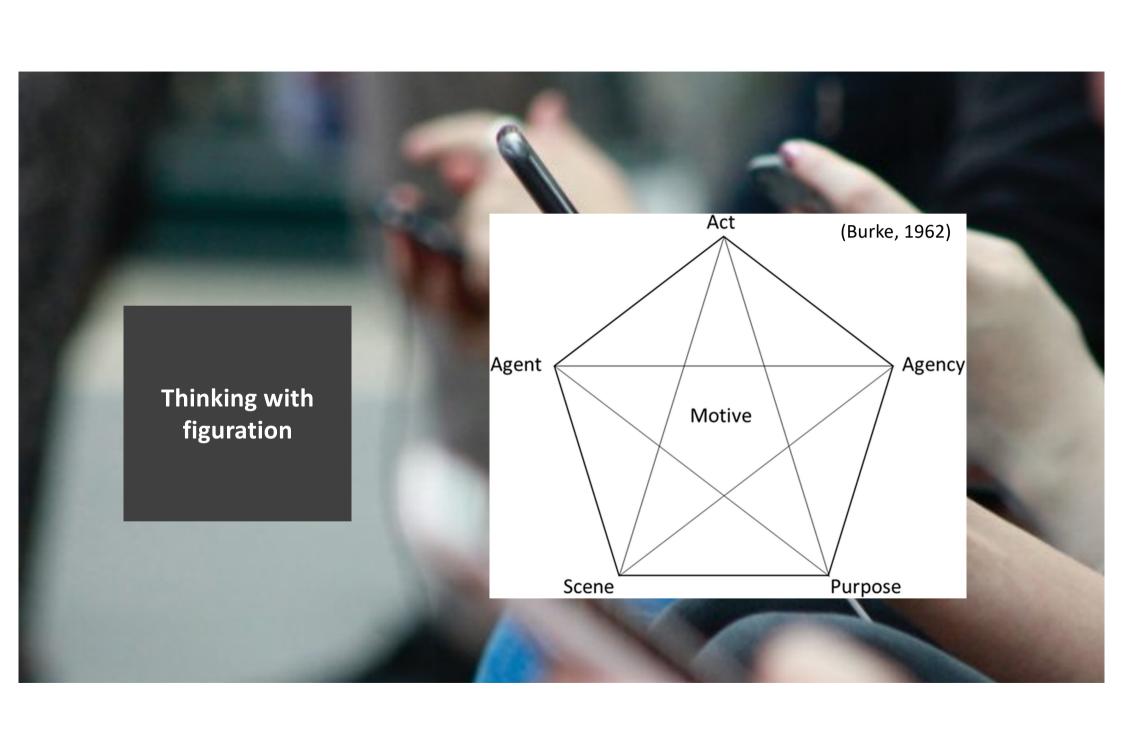


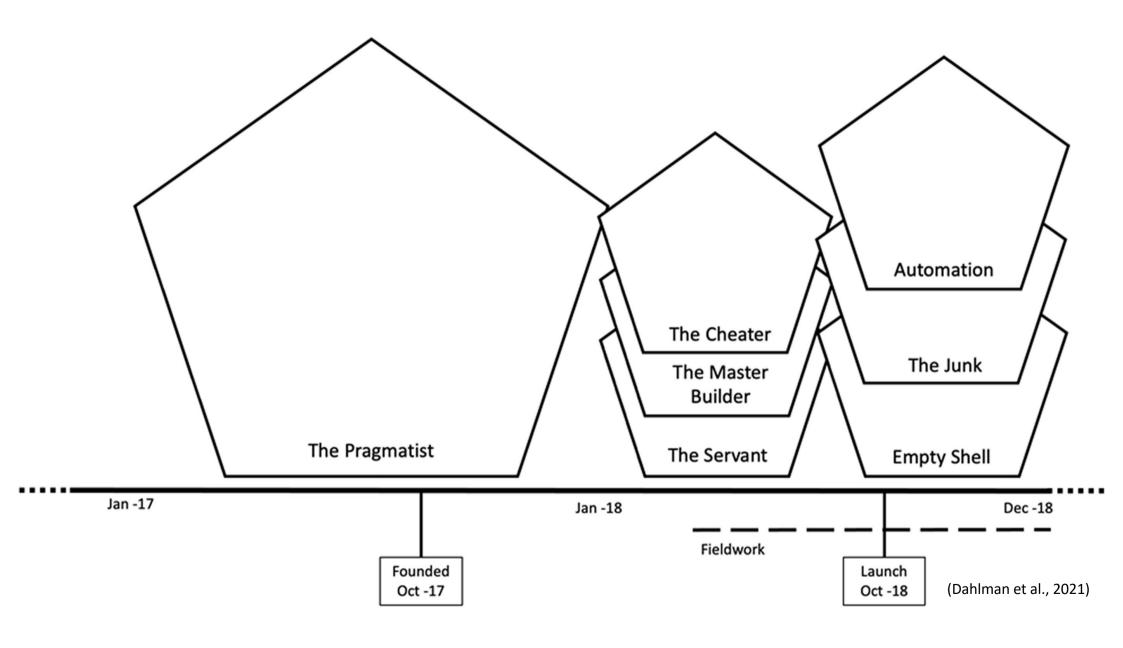


- Automated decisions: Displacement of responsibility
- Personalized targeting: Reduction of diversity
- Opaque procedures: Limitation to reflexivity
- The transmission paradigm comes back with a vengeance fear of overt persuasion whilst constantly subject to covert persuasion
- 'The closing of the rhetorical mind'



- Multiple 'black boxes' (Roberge & Seyfert, 2016) in need of interpretation (Neyland, 2015)
- Algorithms are organization (Lange, Lenglet & Seyfert, 2019)
- Algorithms are culture (Seaver, 2017)
- Algorithms are communication (Lomborg & Kapsch, 2020)
- Algorithms are figuration (Dahlman et al., 2021)





Controversy mapping What is the concern being raised? And who articulates it? Thinking about Who articulates what positions? figuration How does the controversy unfold? (How) is the issue resolved?

HOW DO ALGORITHMS MAKE THE NEWS?

6K named entities extracted from 34K Danish news media articles about algorithms, machine learning, and artificial intelligence.

The entities are mapped as a co-word network where each node is an entity (a word or expression) and an edge signifies co-occurrence in the same articles. Only the 100K edges with highest Pointwise Mutual Information are kept in the visualization.

RESEARCH & EDUCATION

National Danish initiatives in research and education have been focusing on competence development an capacity building in the field of AI and machine tearning. Frequently named entities in this space include universities, research groups, and their public and private partners.

SOCCER

At is newsworthy when, trained on the past performance of players, it replaces the manager and sets the team. Or at least, that is a frequently talked about idea in the world of soccer.

DANISH BUSINESS

As a commercial opportunity and an innovation agenda. All makes the business news when companion invest in it. Frequently named entities in this space lockude Danish companies, their R&D initiatives and partners, as well as the public institutions supporting.

TECH

I CLUFT

New inventions make the news, particularly when it involves consumer goods like smart phones or voice-controlled virtual assistants. This is one of the few areas where named entities include technical parpon like lessor flow, associately bythom, or Fortian, which seems to stem from articles in specialized traditionals.

DANISH POLITICS

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THE CHINESE DILEMMA

Tech collaboration with China in areas like Al and mability nations becomes a problem when Denmark wints to take a cleer state or a problem when Denmark wints to take a cleer state or the property of the foreign of the property of the pro

FUROPEAN POLITICS

Itsues involving data and algorithms in neighbouring countries make the Danish news, from talks about EU's new AI strategy to national regulation against hate speech or social media. Frequently named entities in this space include nems of European and in particular German and British politicians, media outlets, and notified incomments.

The leak of Hillary Clinton's emails, the Cambridge hapitica scandal, the Crowdstrike conspinsery or the role of Julian Assange: American presidential politics have become mired in data controversiate. This includes the responsibility of tend glants like Google or Meta in the events leading up to the January 6th insur-

LIMATE & DEVELOPMENT

The online blog universe of the trade journal ingenieren (The Engineer) hosts debates about eigorithms in climate modelling or the future of augmented reality - often with a focus on, or in the same context as stories from, developing countries.

MUSIC INDUSTRY

low are streaming platforms like Spotify changing useliness models in the music industry? How do you reduce to grab the attention of the TMTok algorithm? requestly named entitles in this space mainly include smous artists.

DT & ENTERTAINMENT

One of the most common ways in which machine teaming and AI hit the news is through the world of fiction. Be it clients, books, exhibitions, or video games, this is where we can speculate about our future lives with asportime, Frequently named entitles in this space include a lot of sci-fi authors, characters, and

tantlab



ADD

Made in the TANT Lab for the Algorithms, Data & Democracy project by Mathieu Jacomy, Torben Eigaard Jensen, Anders Kristian Munk, and Snorre Ralund. Data provided by Infomedia.

