

Workshop Plan

Part 1: (now through 12:30) Starting a conversation about media literacy, machine learning, and care.

1:00 Lunch Provided

Part 2: (1:00-2:00) Training a not-very-smart bot to take an ideological perspective.

Part 3: (2:00-3:00) Performance + Time for everyone to discuss their own projects

5:00 Mixer!

In the epoch of the algorithmic implementation of applied mathematics in computerized machines, there is no longer any need to think: thinking is concretized in the form of algorithmic automatons that control data-capture systems and hence make it obsolete. As automatons, these algorithms no longer require it in order to function – as if thinking had been proletarianized by itself.

Automatons should be put at the service of dis-automatization...including first and foremost in the service of their own dis-automatization.

Bernard Stiegler

Automatic Society Volume 1: The Future of Work

Tr. Daniel Ross

Some Generalizations:

Contemporary Machine Learning:

- Large (public or proprietary) datasets
- *Prediction* is the central goal
 - the next word in a sequence
 - the next product you are going to buy
- Training is done *actively* by companies, *passively* by the rest of us
 - Clicking on anything trains some algorithm somewhere
- Reproduce the ideological features and biases of their datasets
 - racial and gender bias
 - (one) solution: better models & data + de-biasing techniques

Data Science: Cool Math for Automatic Politics

<p>Extreme <i>she</i></p> <ol style="list-style-type: none"> 1. homemaker 2. nurse 3. receptionist 4. librarian 5. socialite 6. hairdresser 7. nanny 8. bookkeeper 9. stylist 10. housekeeper 	<p>Extreme <i>he</i></p> <ol style="list-style-type: none"> 1. maestro 2. skipper 3. protege 4. philosopher 5. captain 6. architect 7. financier 8. warrior 9. broadcaster 10. magician 	<p>sewing-carpentry nurse-surgeon blond-burly giggle-chuckle sassy-snappy volleyball-football</p> <p>queen-king waitress-waiter</p>	<p>Gender stereotype <i>she-he</i> analogies</p> <p>registered nurse-physician interior designer-architect feminism-conservatism vocalist-guitarist diva-superstar cupcakes-pizzas</p> <p>Gender appropriate <i>she-he</i> analogies</p> <p>sister-brother ovarian cancer-prostate cancer</p>	<p>housewife-shopkeeper softball-baseball cosmetics-pharmaceuticals petite-lanky charming-affable lovely-brilliant</p> <p>mother-father convent-monastery</p>
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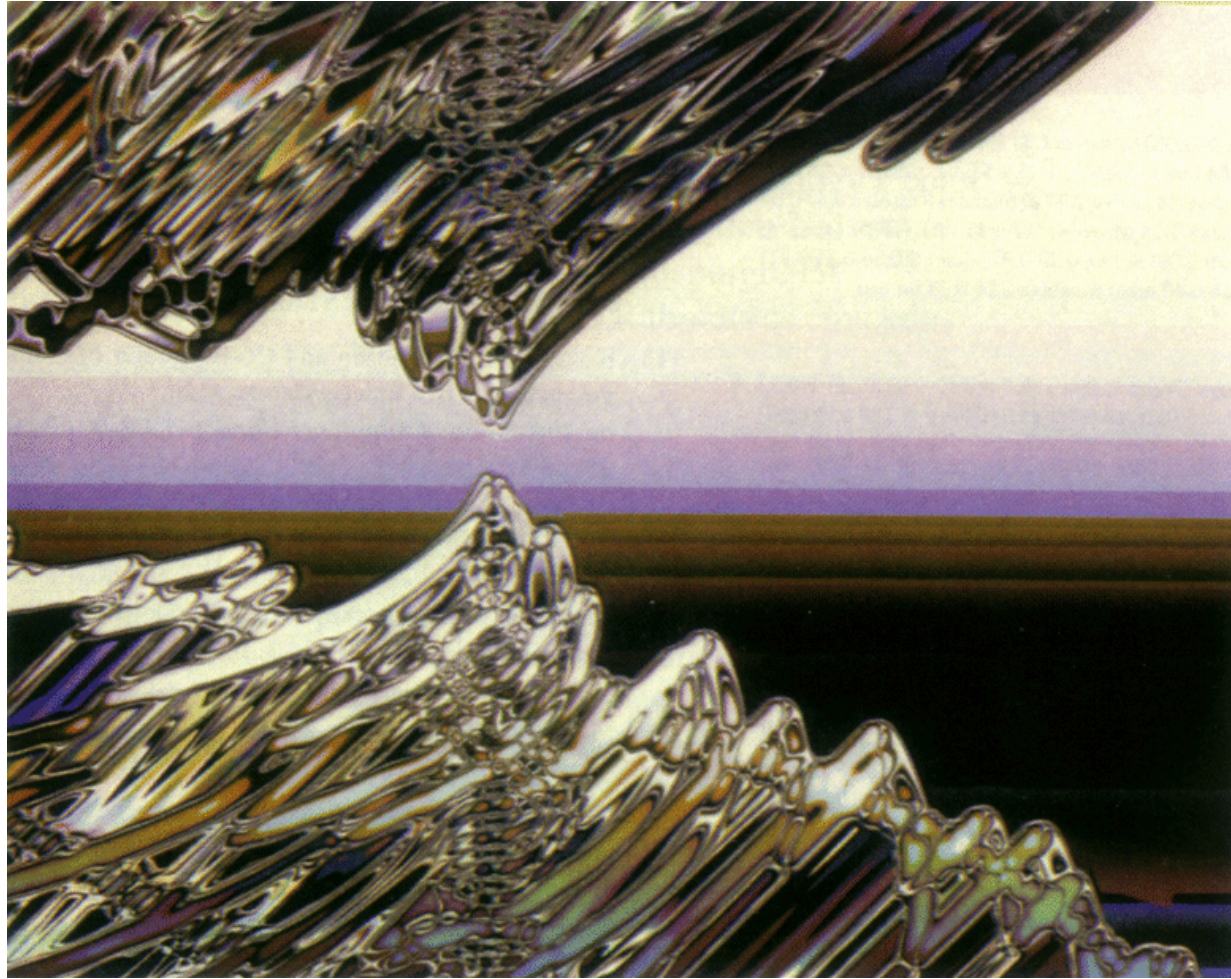
Bolukbasi, T., Chang, K. W., Zou, J. Y., Saligrama, V., & Kalai, A. T. (2016). Man is to computer programmer as woman is to homemaker? debiasing word embeddings. In *Advances in neural information processing systems* (pp. 4349-4357).

Return to the Tamagotchi

- Machine as animal/pet
- Extremely laborious



Interactive Evolution: Laborious (Non-Automatic) Machine Learning



Karl Sims, "Artificial Evolution for Computer Graphics" (1991)