



# Artificial Intelligence, Democracy and Your Election

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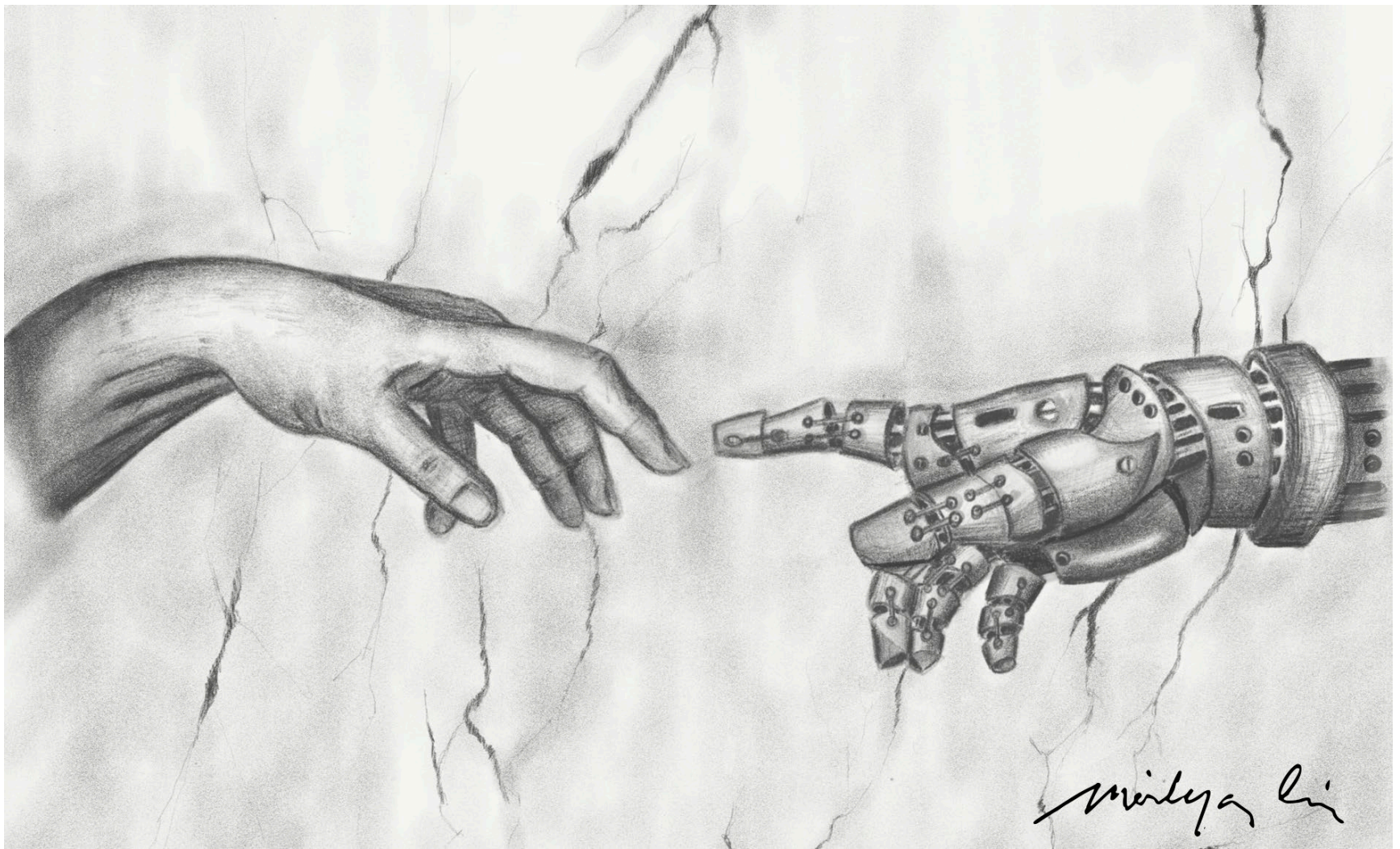
## L'intelligence artificielle, la démocratie et votre élection

February 25, 2019 / le 25 février 2019



**TOYOTA**





# ARTIFICIAL INTELLIGENCE & ELECTORAL POLITICS

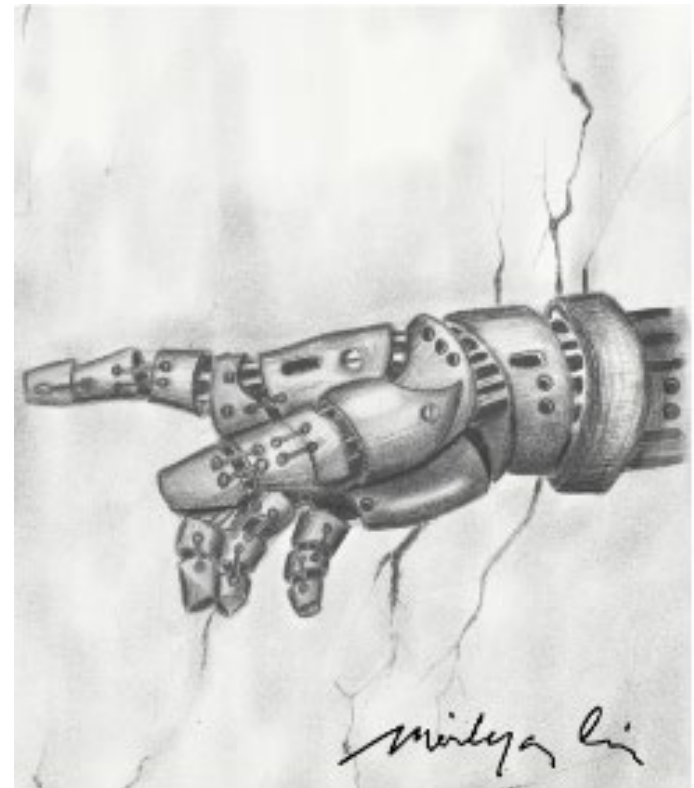
MERLYNA LIM

Canada Research Chair in Digital Media & Global Network Society  
Carleton University

# what is **ARTIFICIAL INTELLIGENCE**

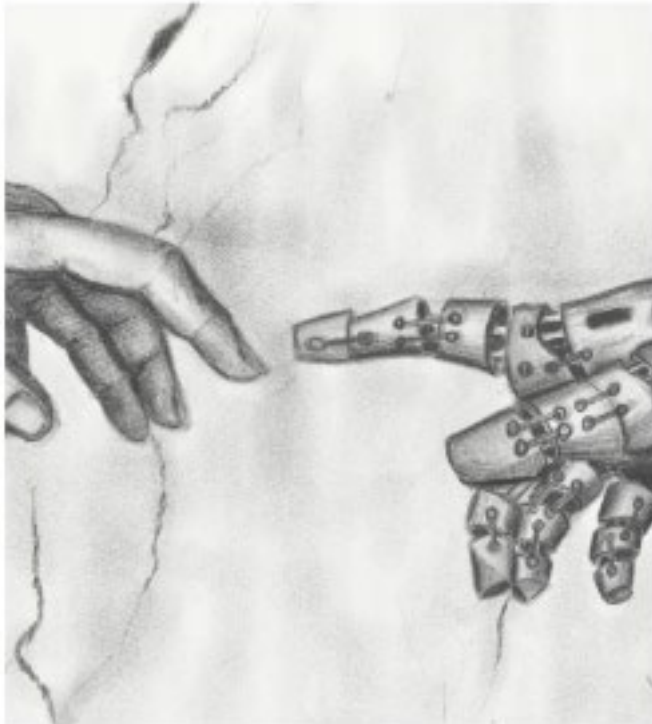
## ?

- Computer science
- Machines that work and react like humans
- Borrow human characteristics and apply them
- Recognition >> Learning >> Planning >> Problem solving



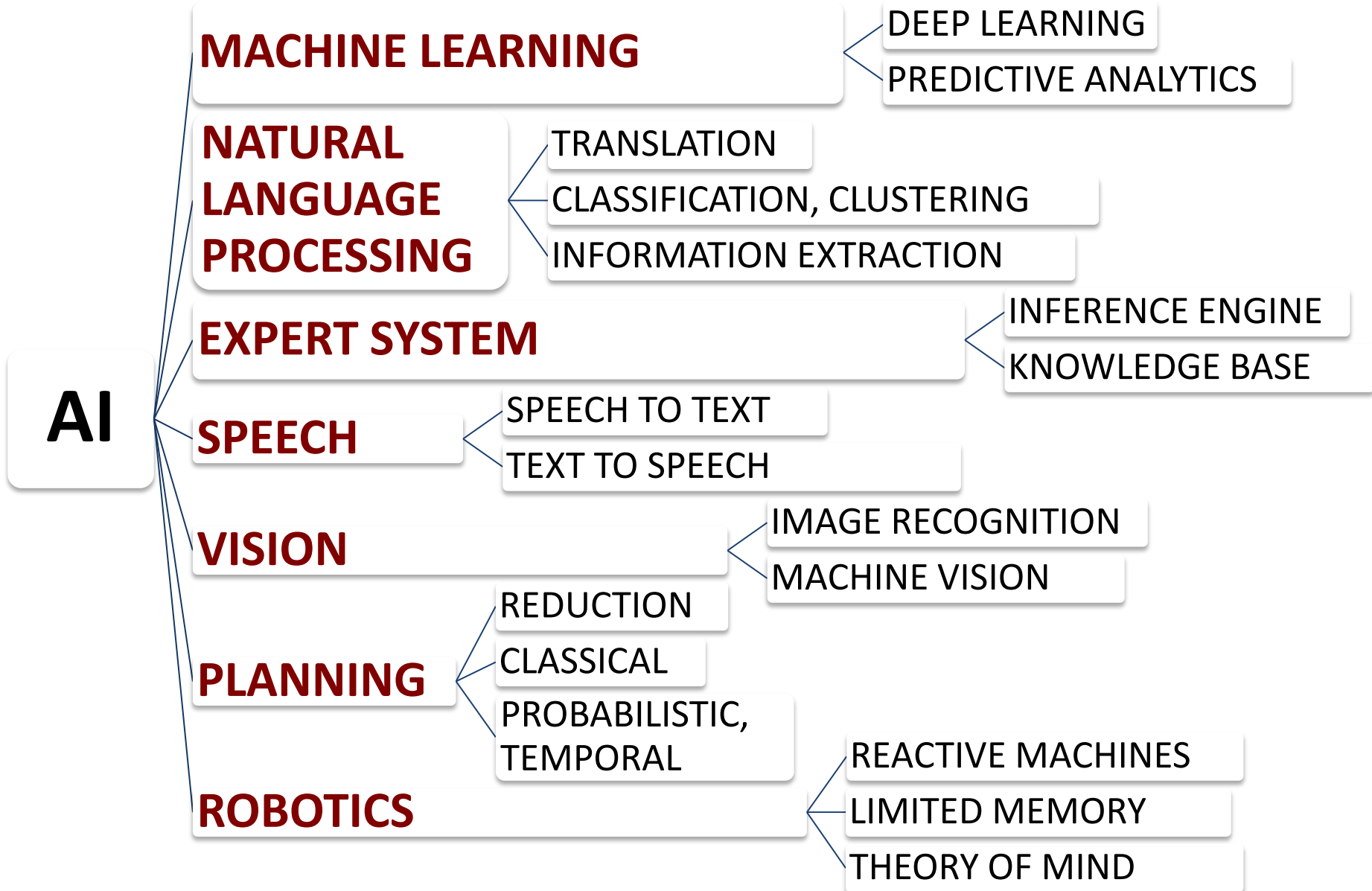


# how does **ARTIFICIAL INTELLIGENCE** work ?

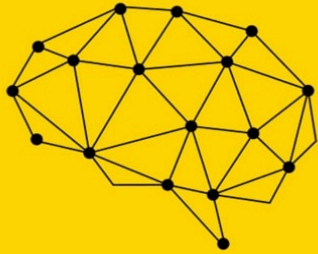


- Building up concepts of the *thing* they manipulate or work with
- Storing concepts as chunk of data
- Function similar to human brain
- These data are frequently updated

# types of **ARTIFICIAL INTELLIGENCE**

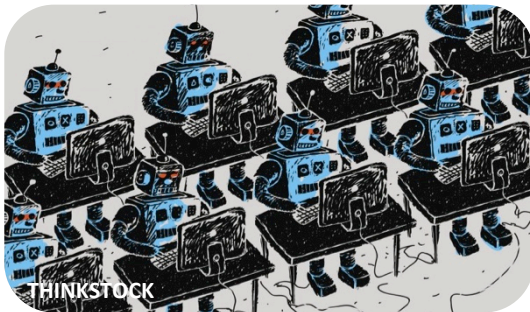


# ARTIFICIAL INTELLIGENCE + ELECTIONS



Cambridge  
Analytica

SOCIAL MEDIA  
MANIPULATION



POLITICAL BOTS/FAKE ACCOUNTS



CYBERATTACKS



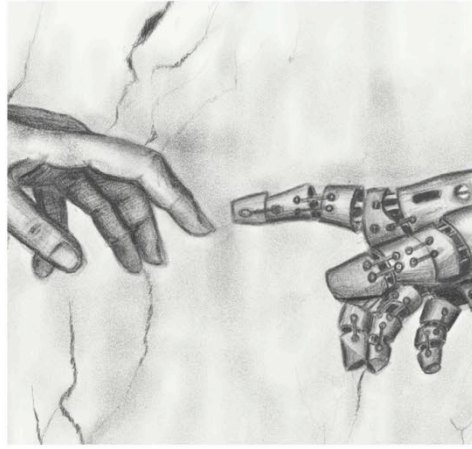
DEEPFAKE

# types of **ACTORS**



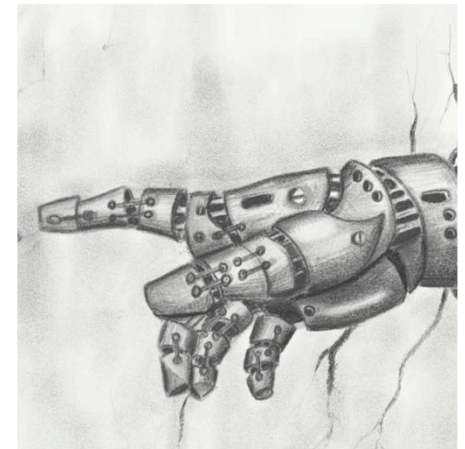
## **TROLL**

fully human



## **CYBORG**

automated, with  
some human  
curation/posting

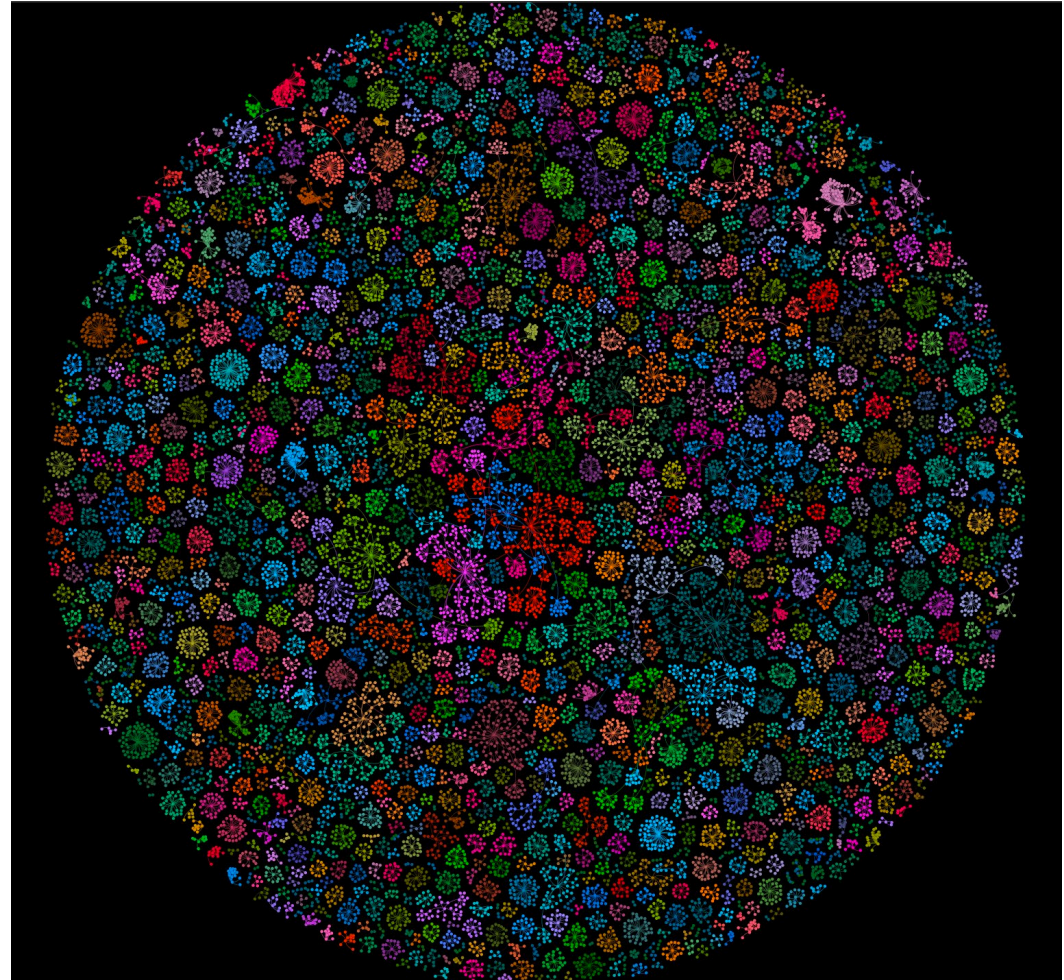
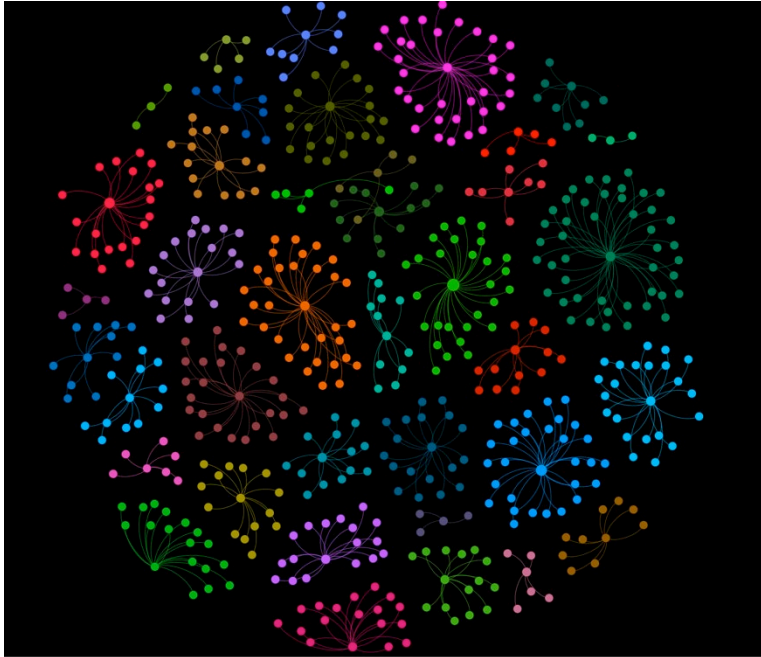


## **BOT**

fully automated



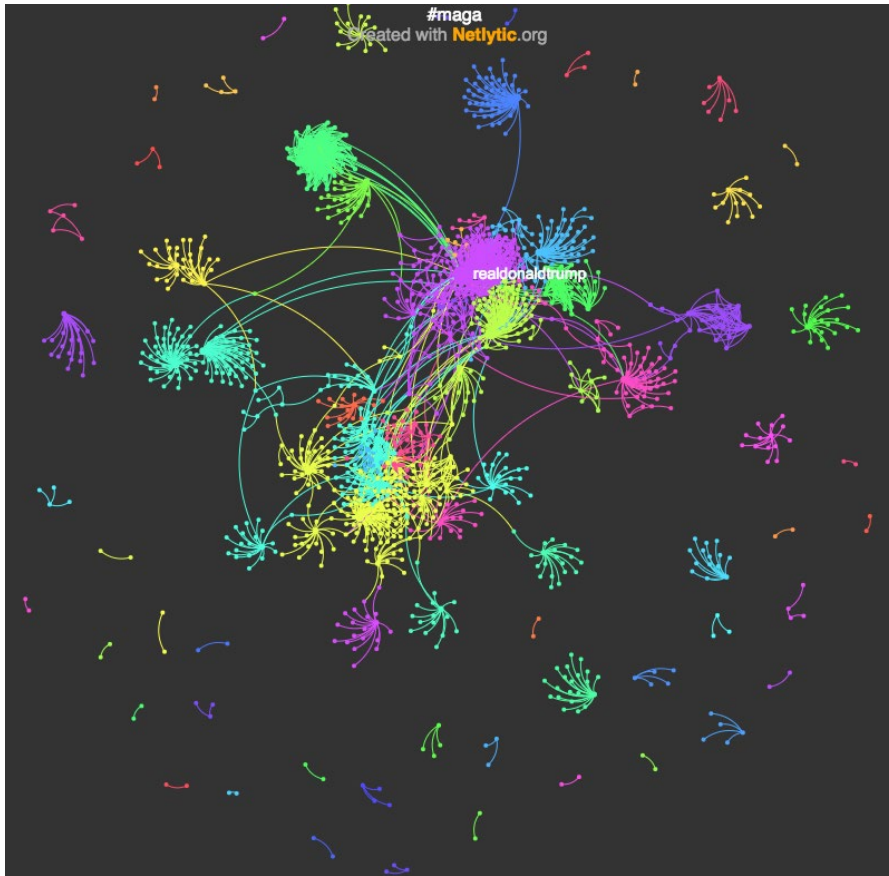
# BOT typology



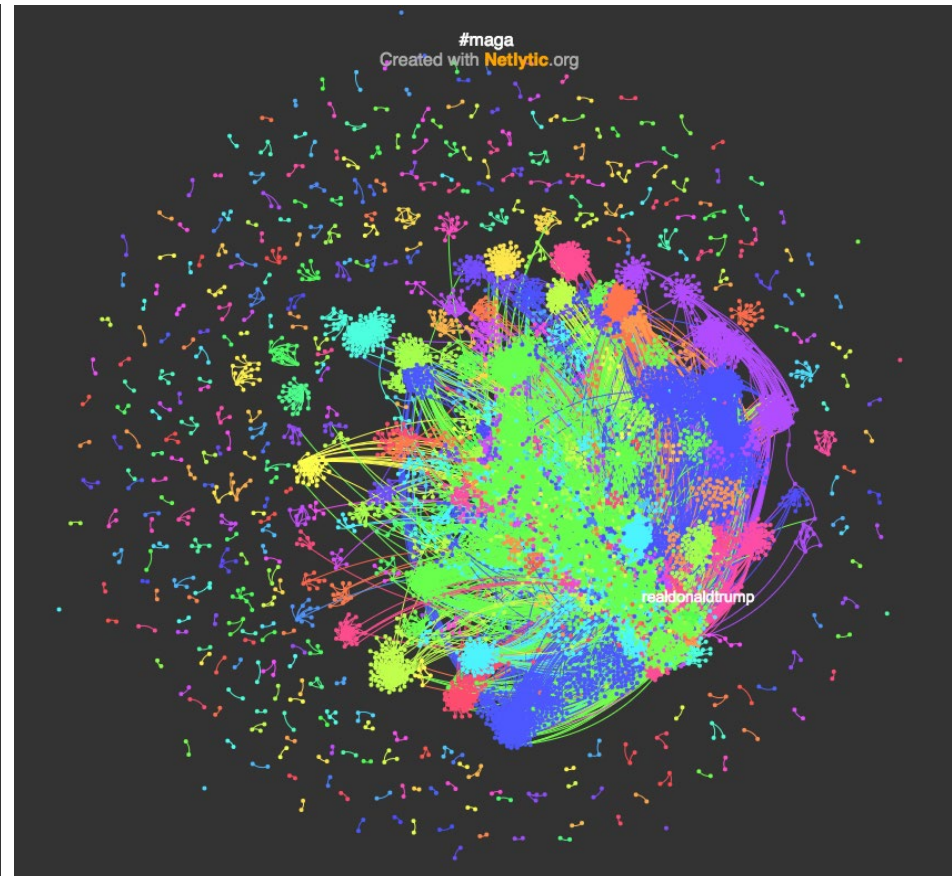
ANDY PATEL, 2018



# Political Bots #MAGA



9 FEB 2019



11 FEB 2019

MERLYNA LIM, 2019

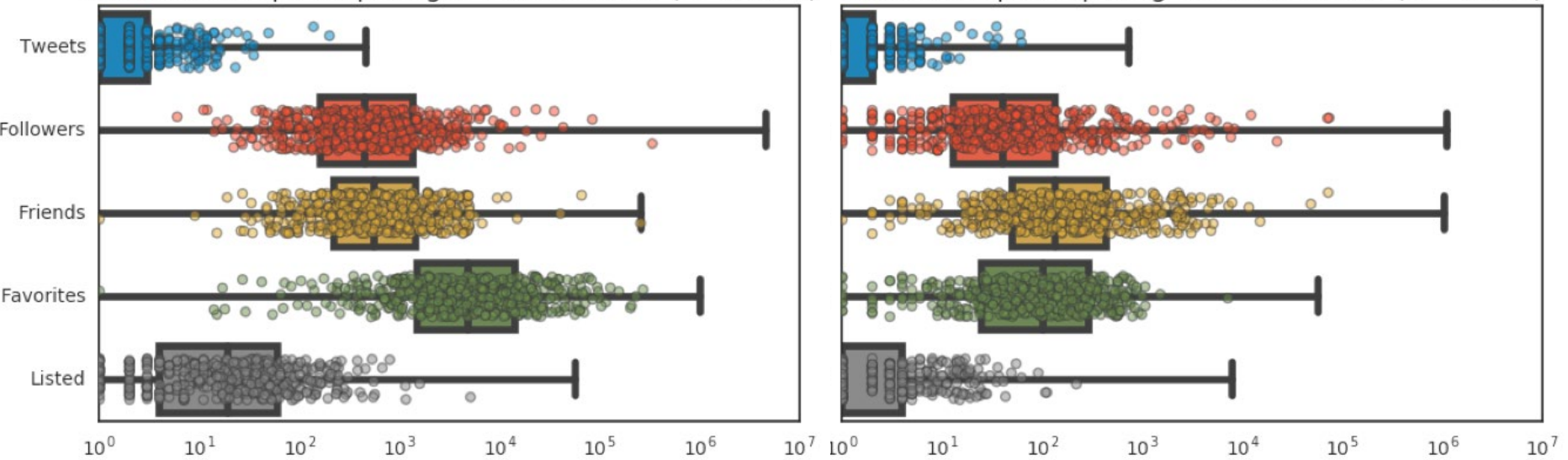
# Fake news & disinformation on Twitter –US Election 2016



# Disinformation & social bots In French Presidential Election 2017

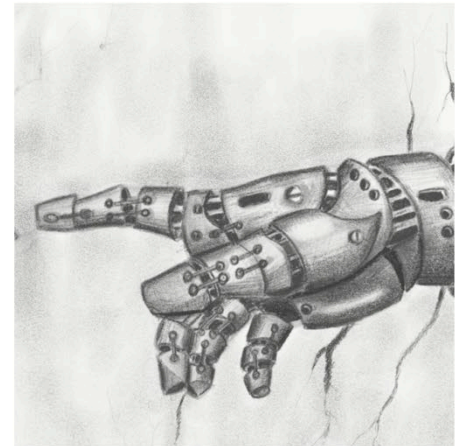
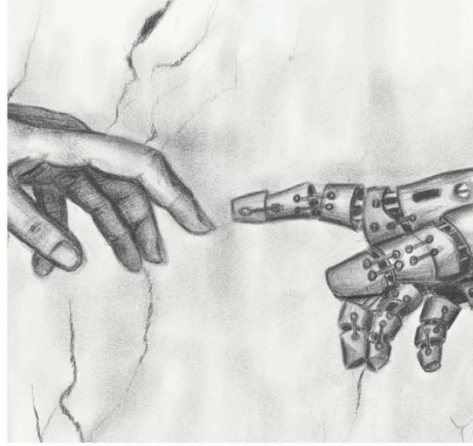
Human Users participating in MacronLeaks (N=81054)

Social Bots participating in MacronLeaks (N=18324)





... **what's next?**





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