

DELING
PLATTFORM
TILLIT
-digitalisering i perspektiv

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NTNU



Asbjørn Rolstadås,
Arne Krokan,
Lars Thomas Dyrhaug (red.)

TEKNOLOGIEN ENDRER SAMFUNNET

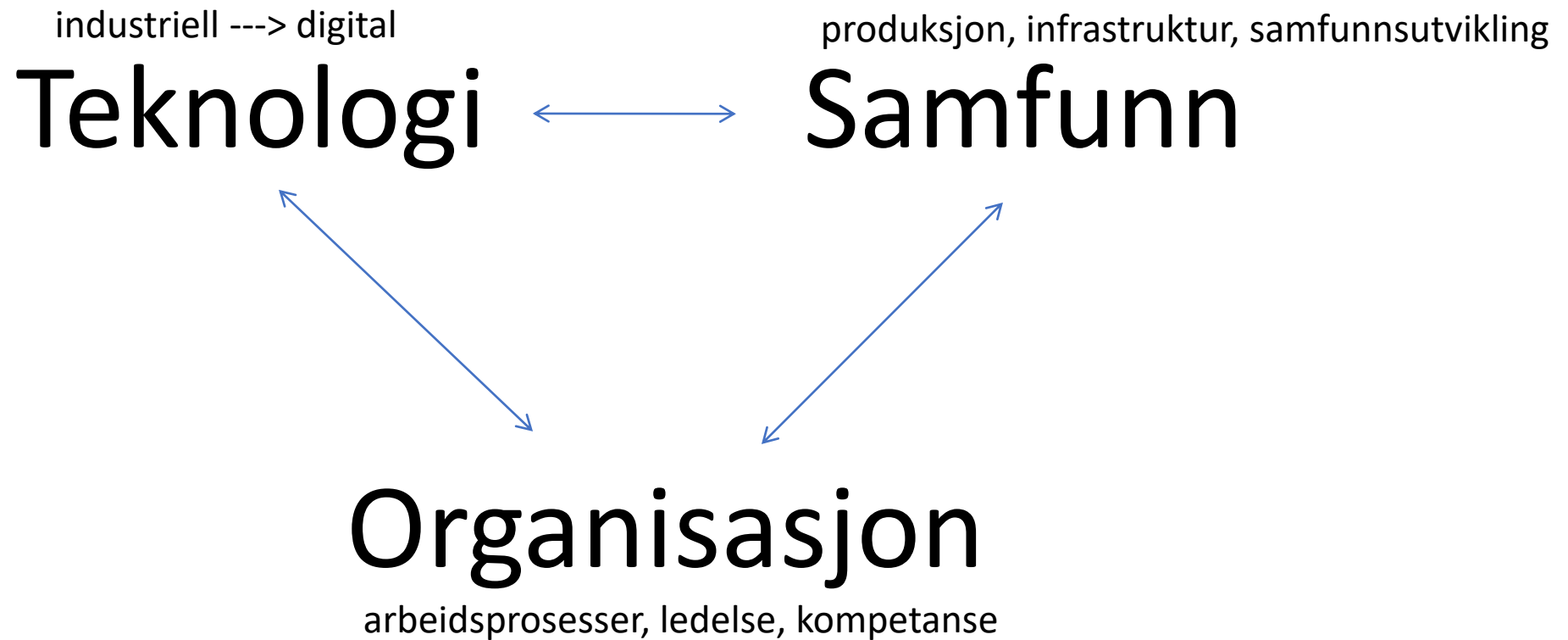


FAGBOKFORLAGET

TEKNOLOGIEN ENDRER SAMFUNNET

- Tingenes internet
- Blockchain
- Kunstig intelligens
- Virtuell virkelighet
- Stordata
- Plattformer og sosiale medier
- Digital læring
- Nonoteknologi
- Bioteknologi
- Solenergi
- Batterier og smartenett
- Energilagring –hydrogen og litium
- Autonome systemer/kjøretøy
- Roboter
- 3D print / additive produksjon
- Sårbarhet

Det kompliserte samspillet



data er den nye
OLJEN

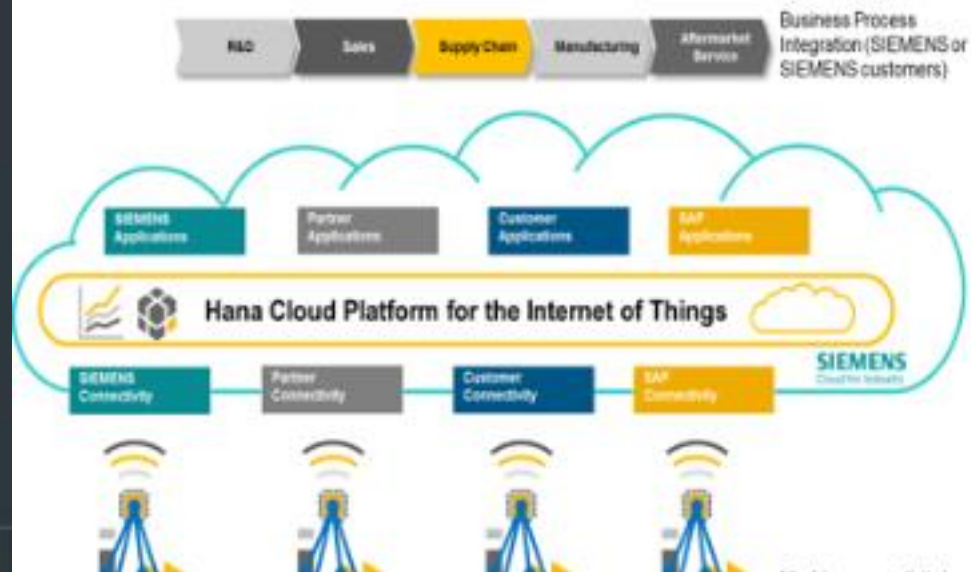
Vi bygger et digitalt,
konkurransedyktig Norge!

Se hvordan ▶

SIEMENS

SAP

MindSphere - Cloud for Industry:



Det kompliserte samspillet

industriell ---> digital

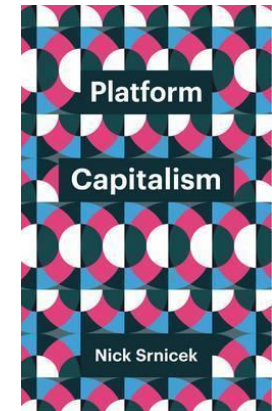
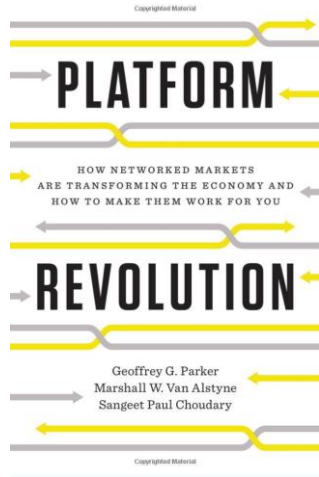
produksjon, infrastruktur, samfunnsutvikling

Teknologi ↔ Samfunn

plattformen

Organisasjon

arbeidsprosesser, ledelse, kompetanse



The ecommerce platform made for you

Whether you sell online, on social media, in store, or out of the trunk of your car, Shopify has you covered.

Get started

Try Shopify free for 14 days. No risk, and no credit card required.



Sophia Pierro of Present Day Gifts uses Shopify to [sell online](#)

Start Your Dropshipping Business

No Inventory Needed. Just Your Shopify Store

Find and add **products** directly into your Shopify store and ship them to your customers – in just a few clicks.

GET OBERLO NOW. IT'S FREE.

100% Secure and Free. No Credit Card Required



Find Products to Sell

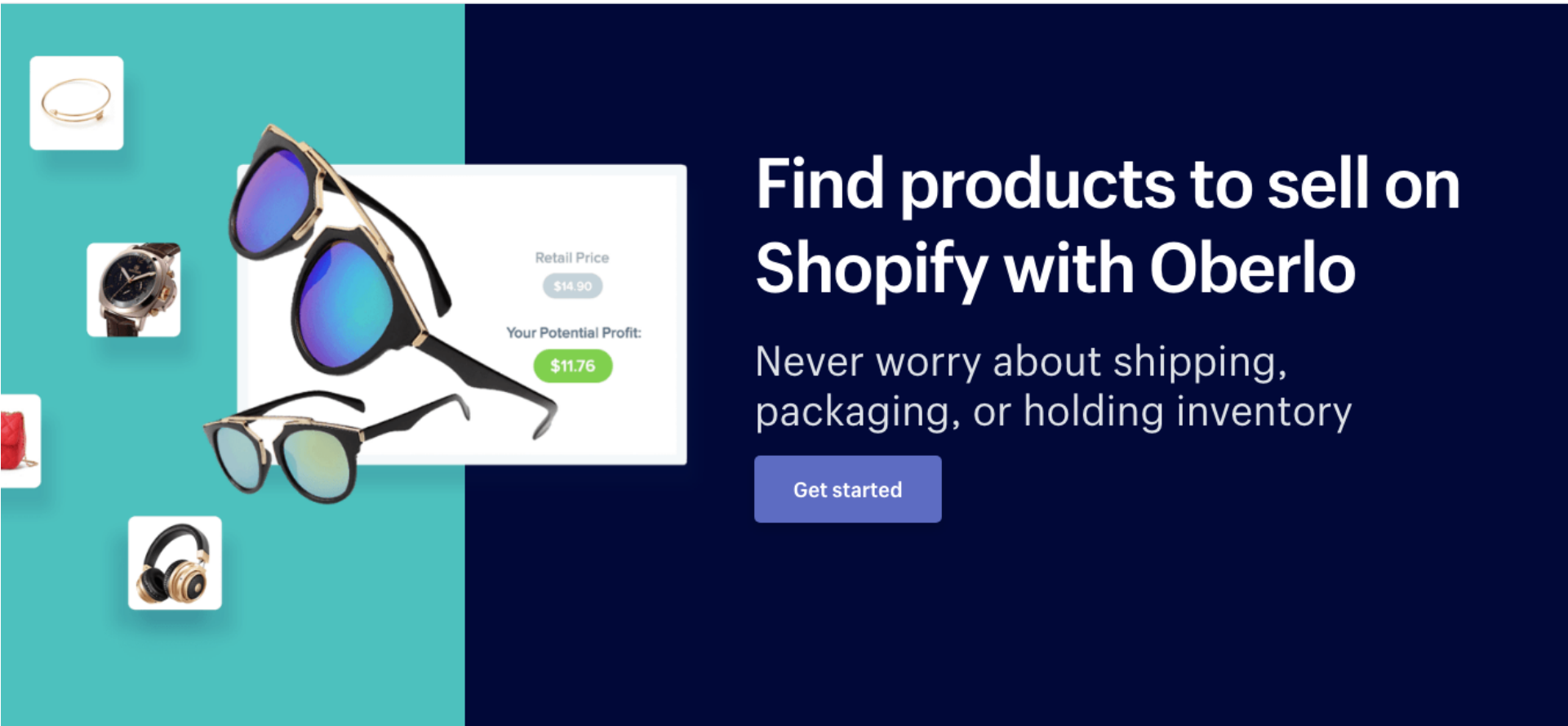
We offer thousands for products from trusted suppliers. You can easily import them into your Shopify store and start selling.

Fulfil Orders Automatically

When you receive and order you can pay for it with a few clicks. The supplier ship orders directly to customers.

Focus on Growth

With access to thousands of products and automatic fulfilment you can focus on growing your sales.



The main visual is a product showcase on a teal background. It features a central white card displaying a pair of sunglasses. To the left of the sunglasses are four smaller product images: a gold bracelet, a watch, a red object, and headphones. To the right of the sunglasses, the card displays pricing information: 'Retail Price' in a grey box with '\$14.90' and 'Your Potential Profit:' in a green box with '\$11.76'.

Find products to sell on Shopify with Oberlo

Never worry about shipping, packaging, or holding inventory

Get started



Alexis Madrigal

The Strange Brands in Your Instagram Feed

A new breed of online retailer doesn't make or even touch products, but they've got a few other tricks for turning nothing into money.

ALEXIS C. MADRIGAL | JAN 10, 2018 | TECHNOLOGY

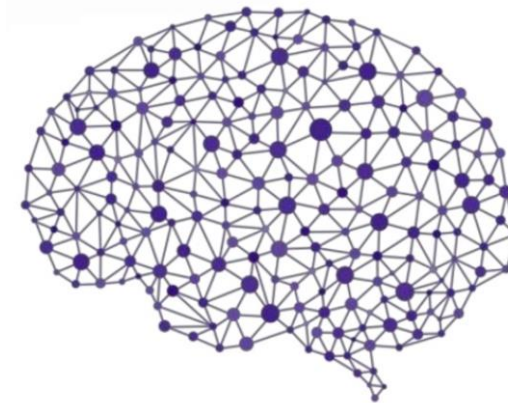
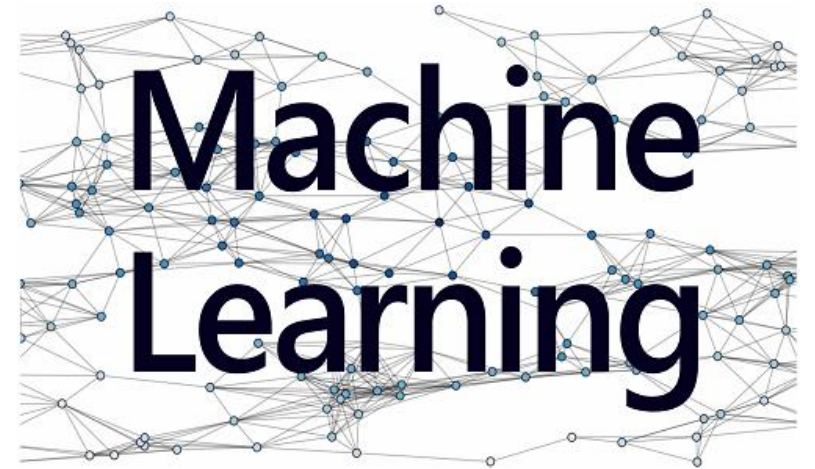


forstå hva teknologi
gjør mulig

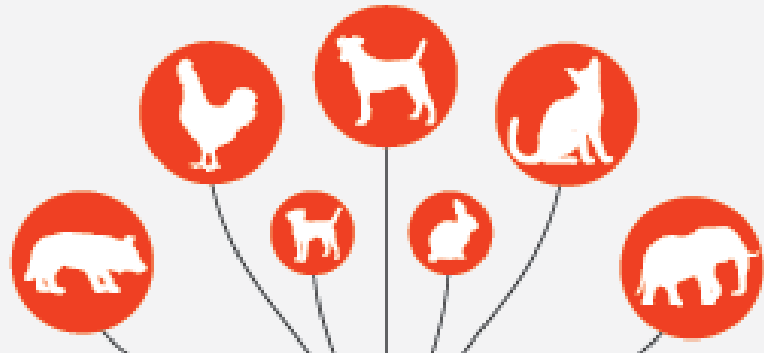
KUNSTIG INTELLIGENS

maskinlæring

dyp læring

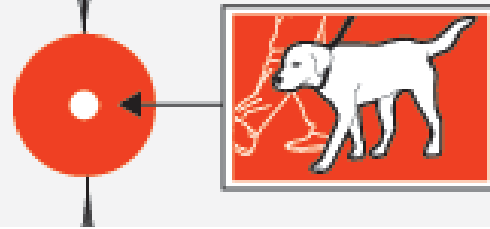






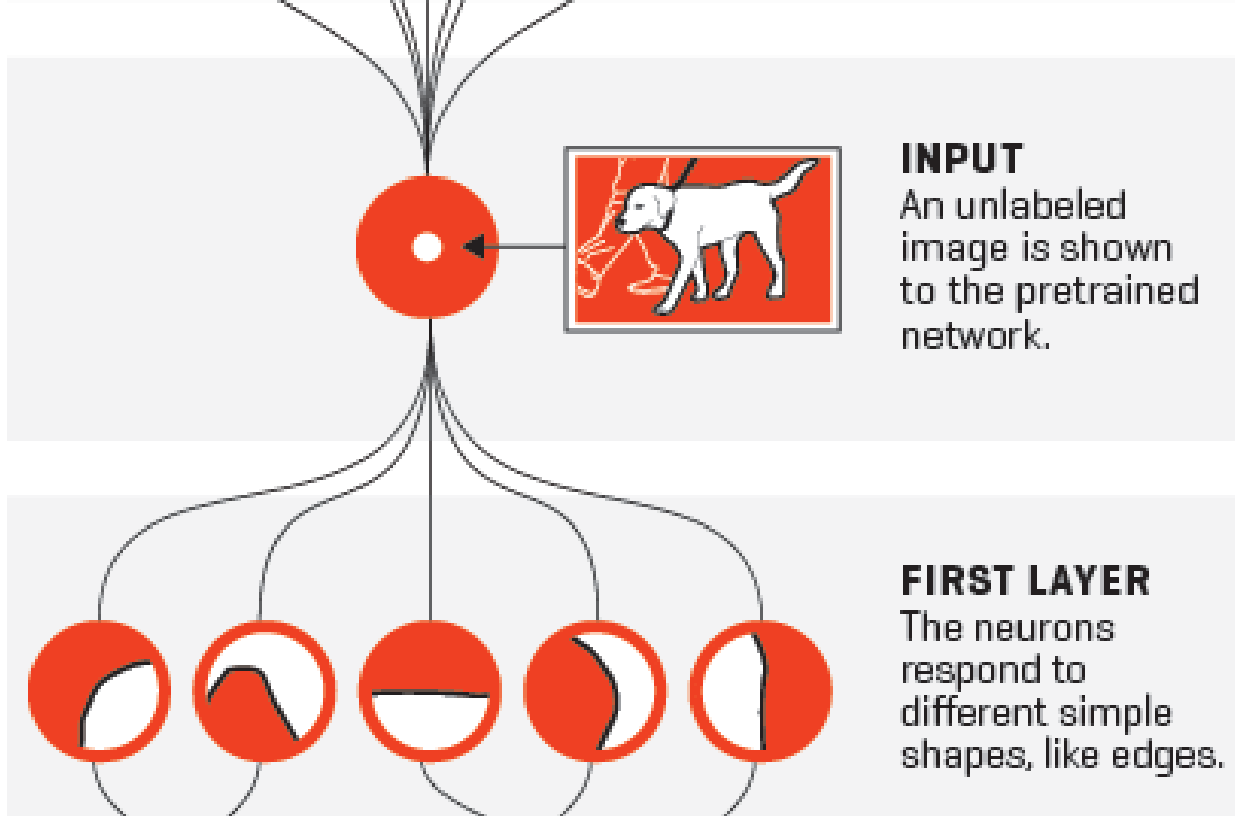
TRAINING

During the training phase, a neural network is fed thousands of labeled images of various animals, learning to classify them.



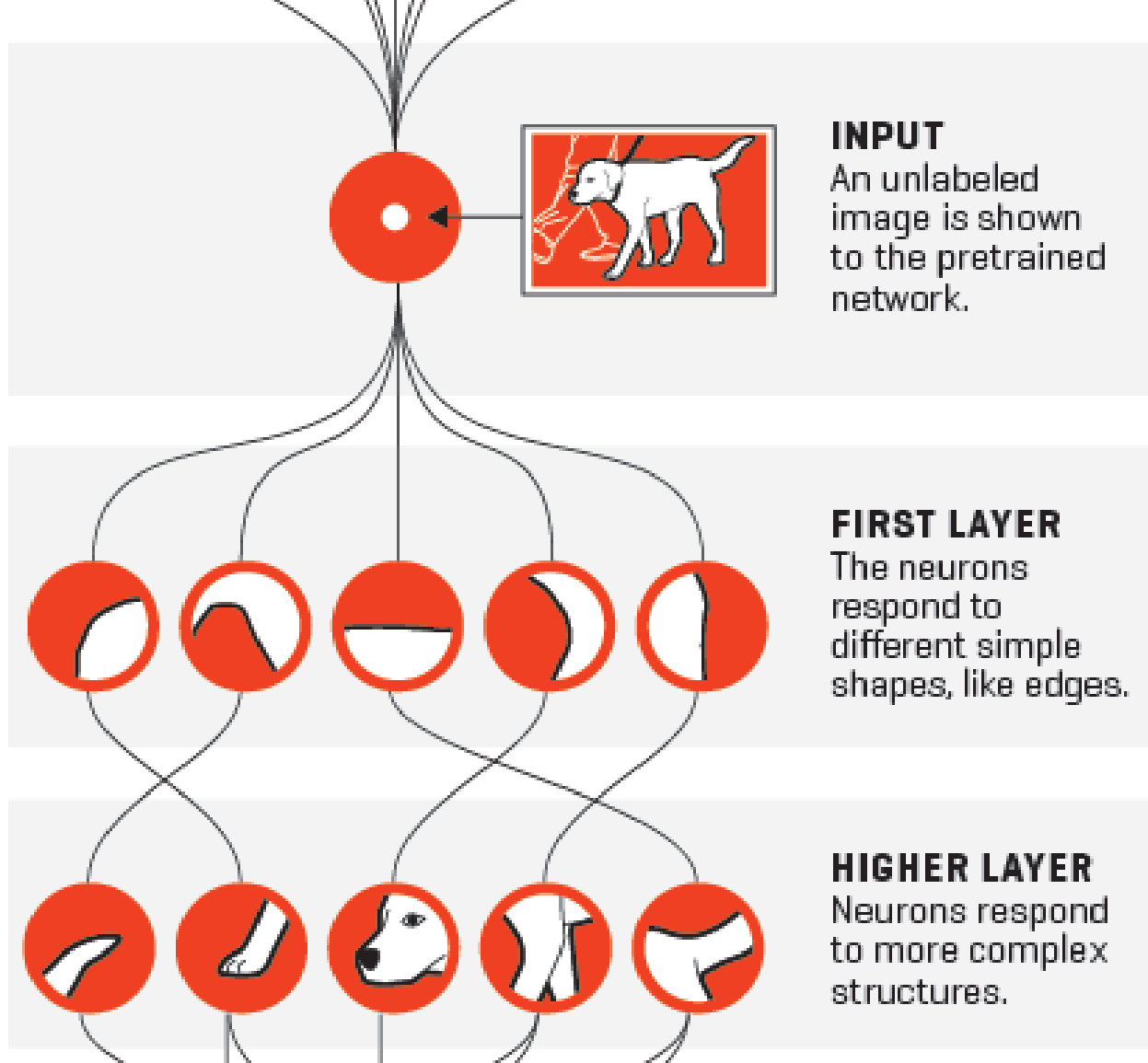
INPUT

An unlabeled image is shown to the pretrained network.



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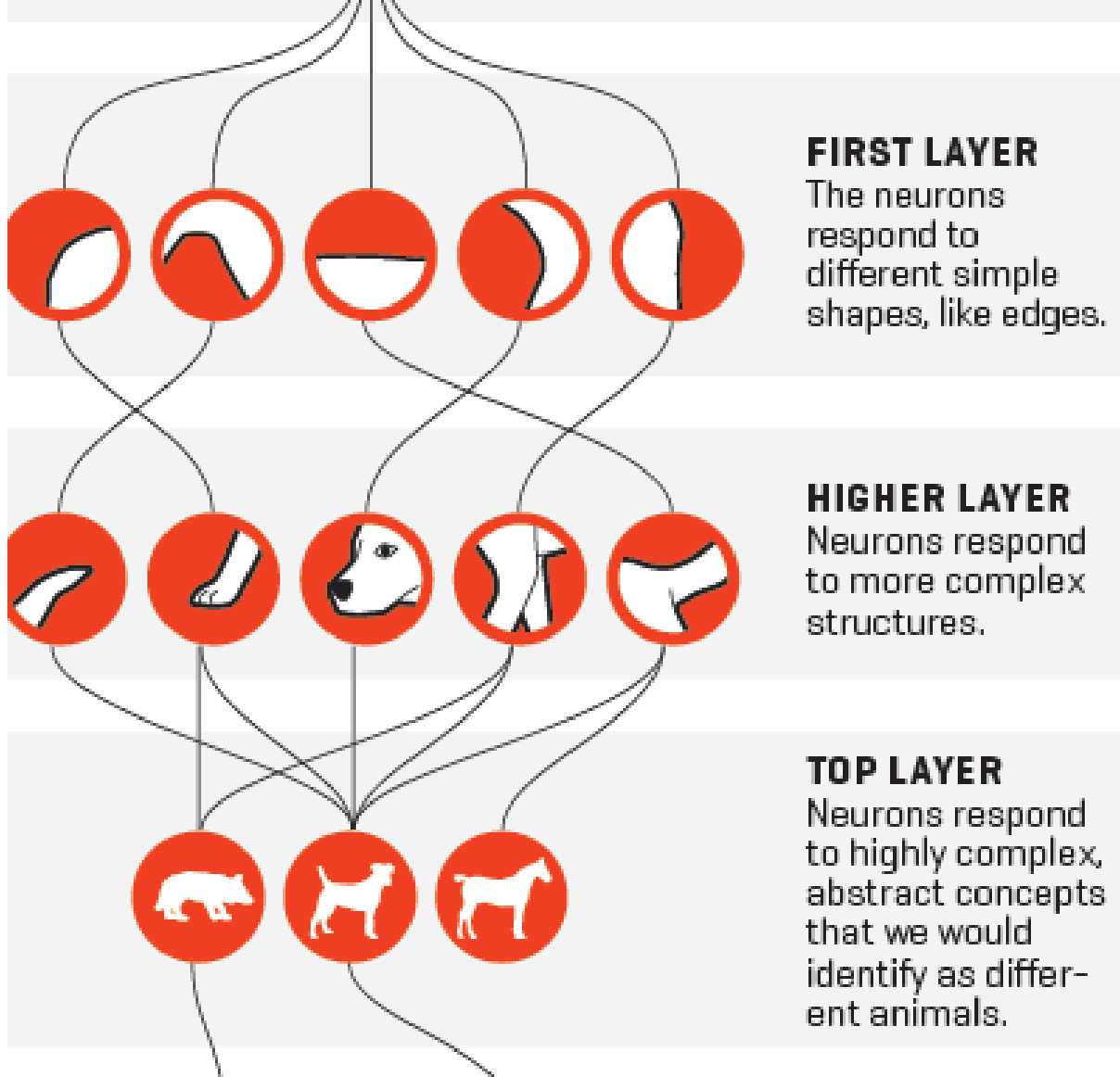
FIRST LAYER
The neurons respond to different simple shapes, like edges.

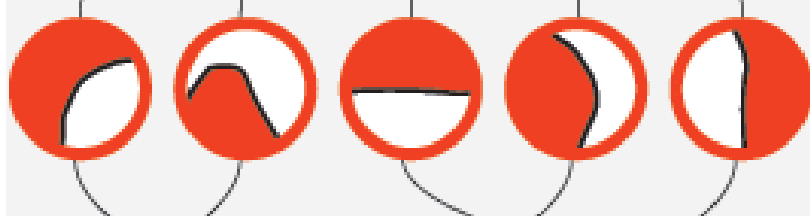


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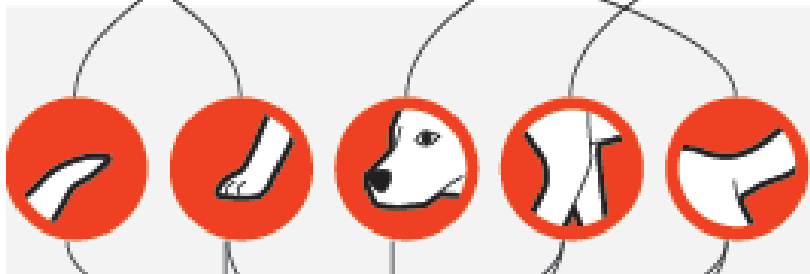
FIRST LAYER
The neurons respond to different simple shapes, like edges.

HIGHER LAYER
Neurons respond to more complex structures.

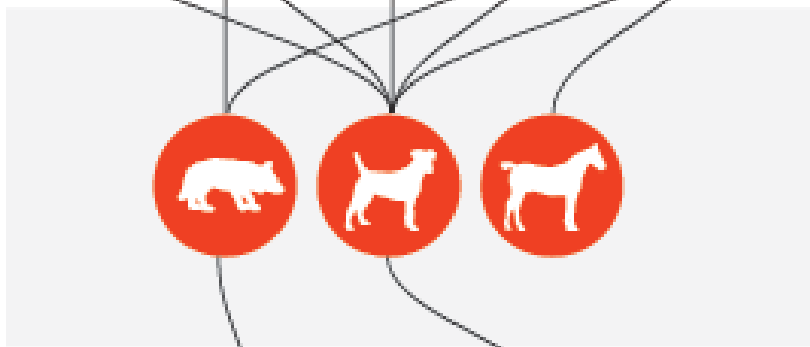




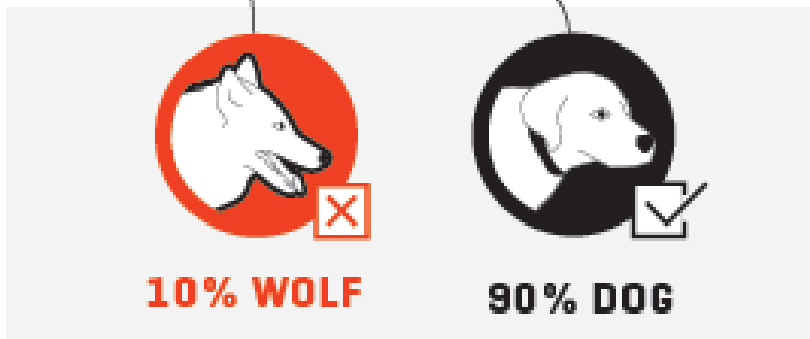
The neurons respond to different simple shapes, like edges.



HIGHER LAYER
Neurons respond to more complex structures.



TOP LAYER
Neurons respond to highly complex, abstract concepts that we would identify as different animals.



OUTPUT
The network predicts what the object most likely is, based on its training.



Mistaken Identity





Lip-syncing Obama: New tools turn audio clips into realistic video

Jennifer Langston

UW News



University of Washington researchers have developed new algorithms that solve a thorny challenge in the field of computer vision: [turning audio clips into a realistic, lip-synced video](#) of the person speaking those words.

This Artificially Intelligent Speech Generator Can Fake Anyone's Voice



George Dvorsky

5/02/17 1:23pm • Filed to: ARTIFICIAL INTELLIGENCE ▾



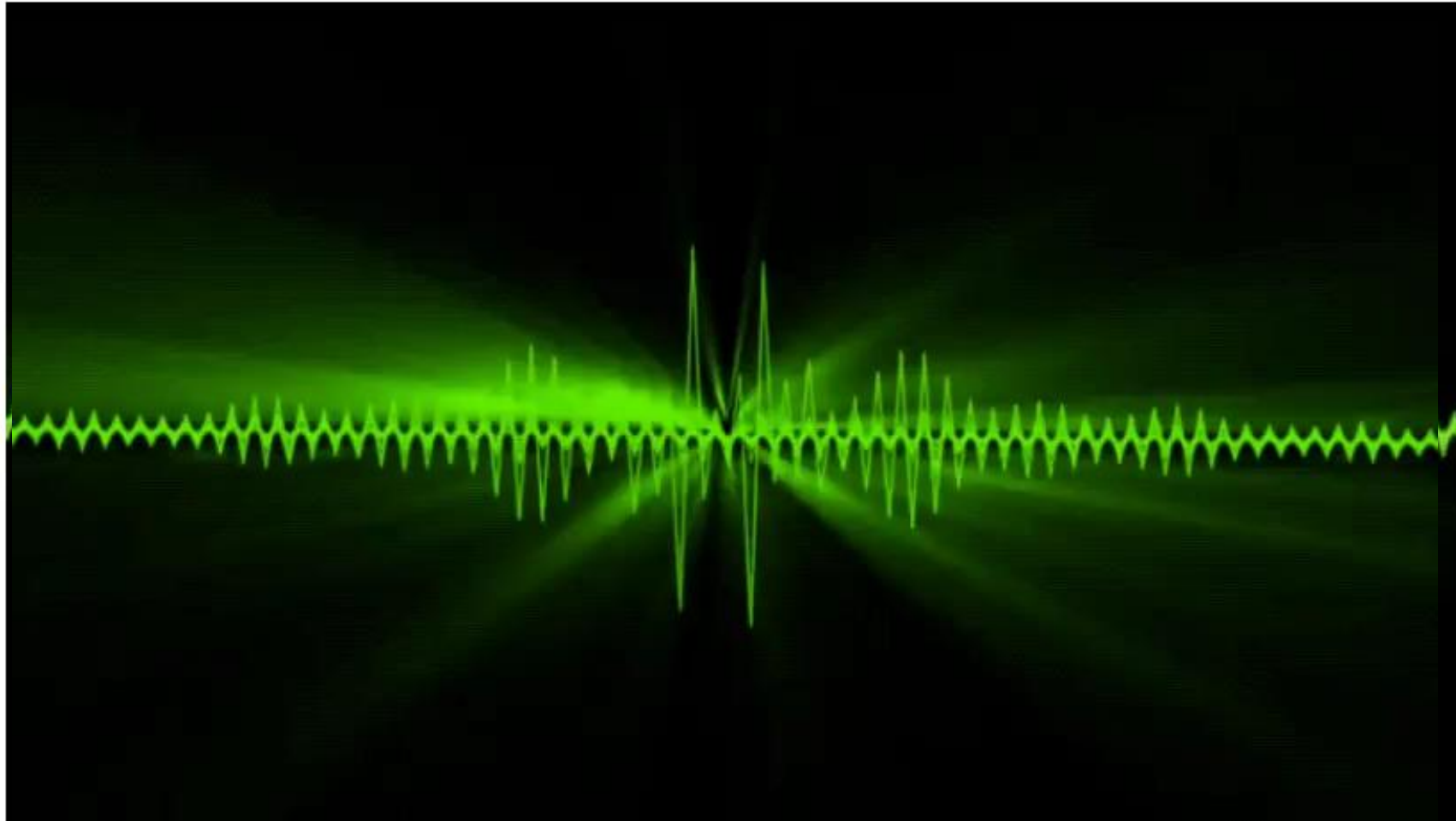
89.4K



106



11



Credit: 1987Maou

VALGMÅLINGER PÅ NY MÅTE

5. Predictions

“if the number of sedans encountered during a 15-minute drive through a city is higher than the number of pickup trucks, the city is likely to vote for a Democrat during the next Presidential election (88% chance),”

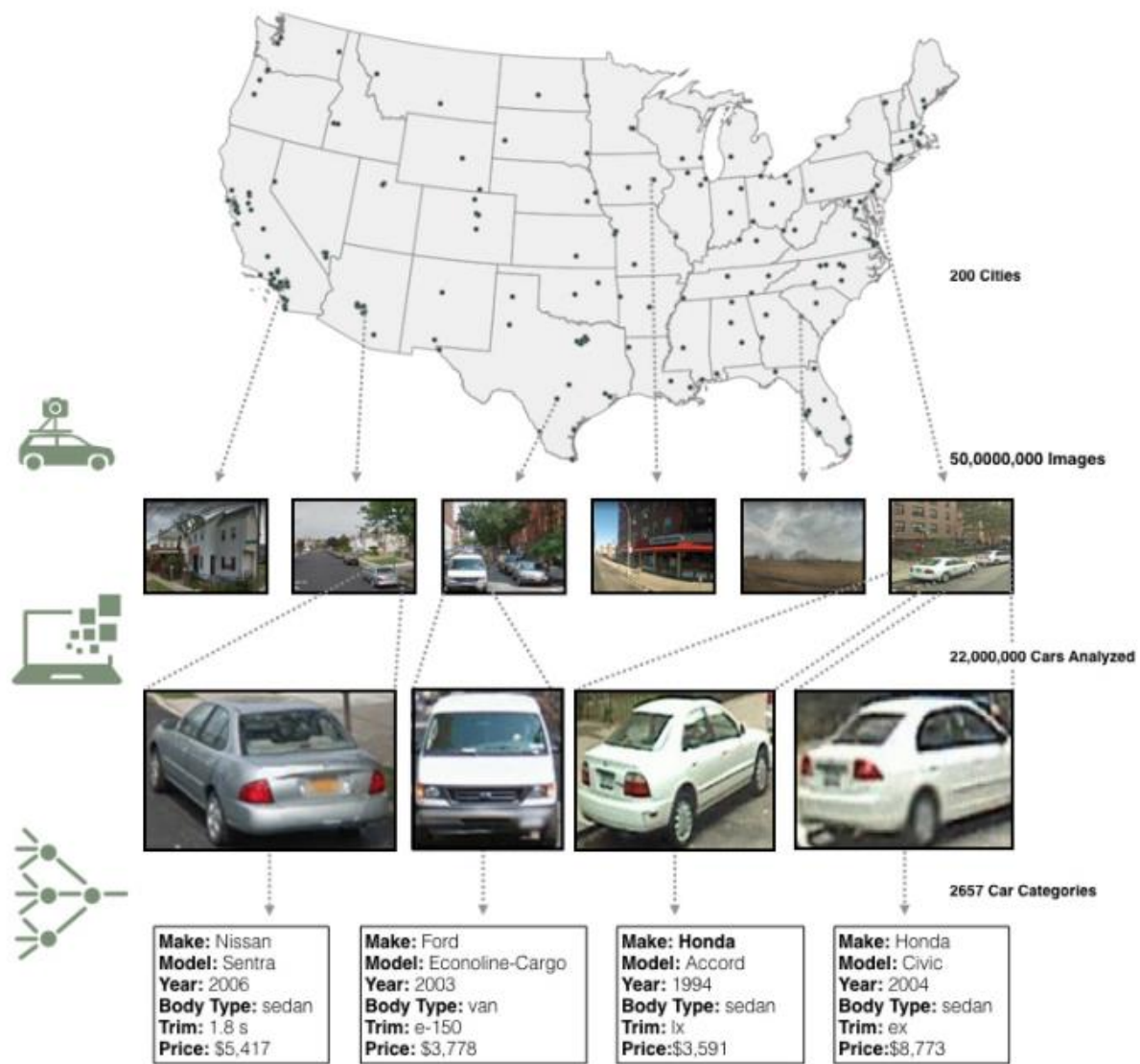


Fig. 1. We perform a vehicular census of 200 cities in the United States using 50 million Google Street View images. In each image, we detect cars with computer vision algorithms based on deformable part models (DPM) and count an estimated 22 million cars. We then use convolutional neural networks (CNN) to categorize the detected vehicles into one of 2,657 classes of cars. For each type of car, we have metadata such as the make, model, year, body type and price of the car in 2012.

kombiner kunstig
intelligens og plattformer

Big data meets Big Brother as China moves to rate its citizens

The Chinese government plans to launch its Social Credit System in 2020. The aim? To judge the trustworthiness – or otherwise – of its 1.3 billion residents



Big data meets Big Brother as China moves to rate its citizens

The Chinese government plans to launch its Social Credit System in 2020. The aim? To judge the trustworthiness – or otherwise – of its 1.3 billion residents



Big brother is watching you! China installs 'the world's most advanced video surveillance system' with over 20 million AI-equipped street cameras

- About 20 million CCTV cameras have been installed with AI technology in China
 - Such technology can be used to identify a person's age, gender and clothes
 - Police can track down criminals using facial recognition and their database
-

Big brother is watching you! China installs 'the world's most advanced video surveillance system' with over 20 million AI-equipped street cameras

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Once the stuff of science fiction, facial-scanning cameras are becoming a part of daily life in China, where they're used for marketing, surveillance and social control. Video: Paolo Bosonin. Photo: Qilai Shen/Bloomberg

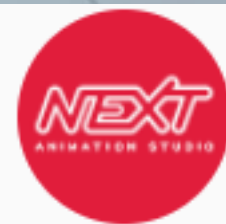
WORLD | ASIA | CHINA

China's All-Seeing Surveillance State Is Reading Its Citizens' Faces

social credit system



KILDE:



News Direct

193,025 subscribers

BLACK MIRROR

IN CODES WE TRUST

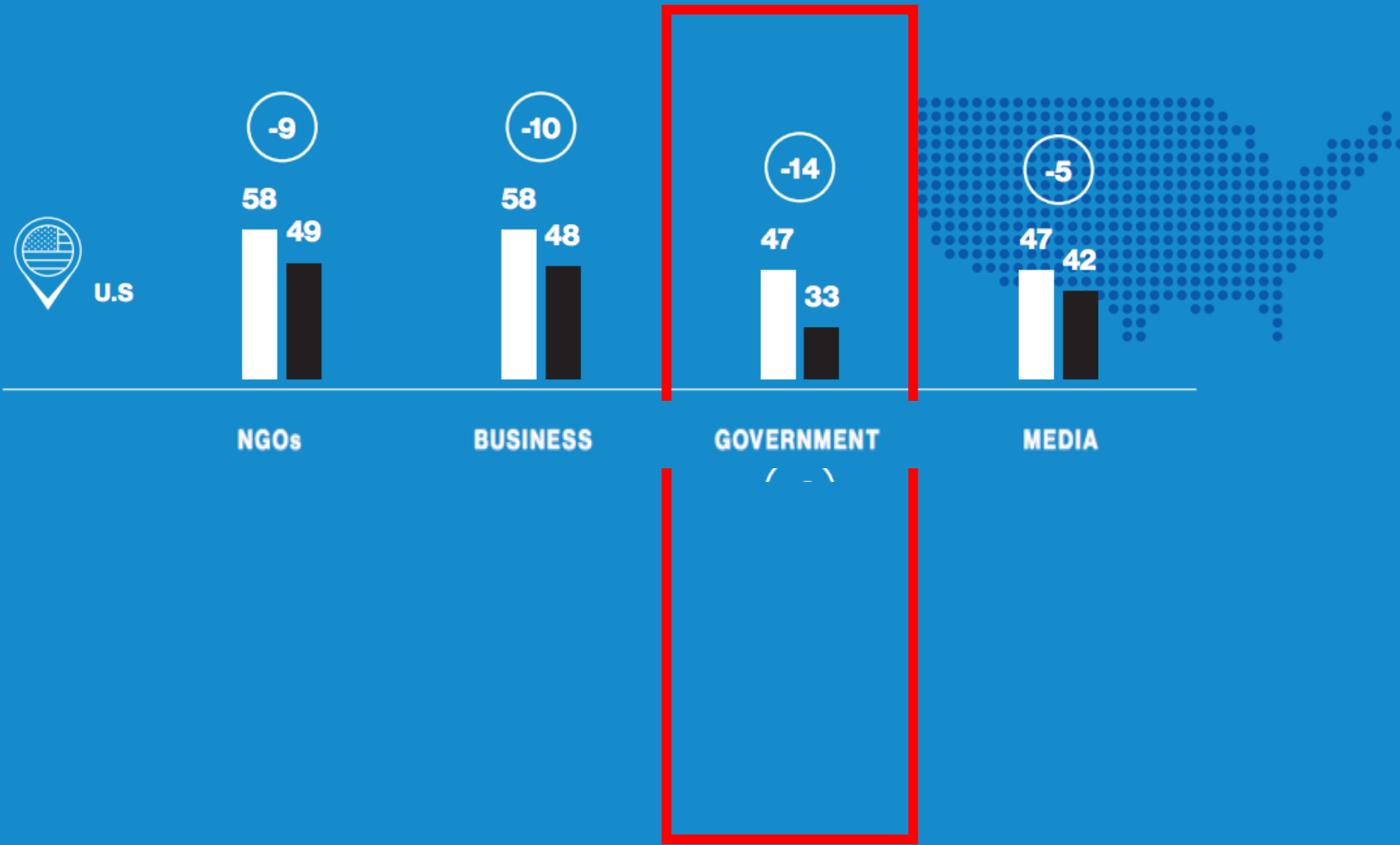
We are outsourcing our capacity to trust to an **algorithm**.

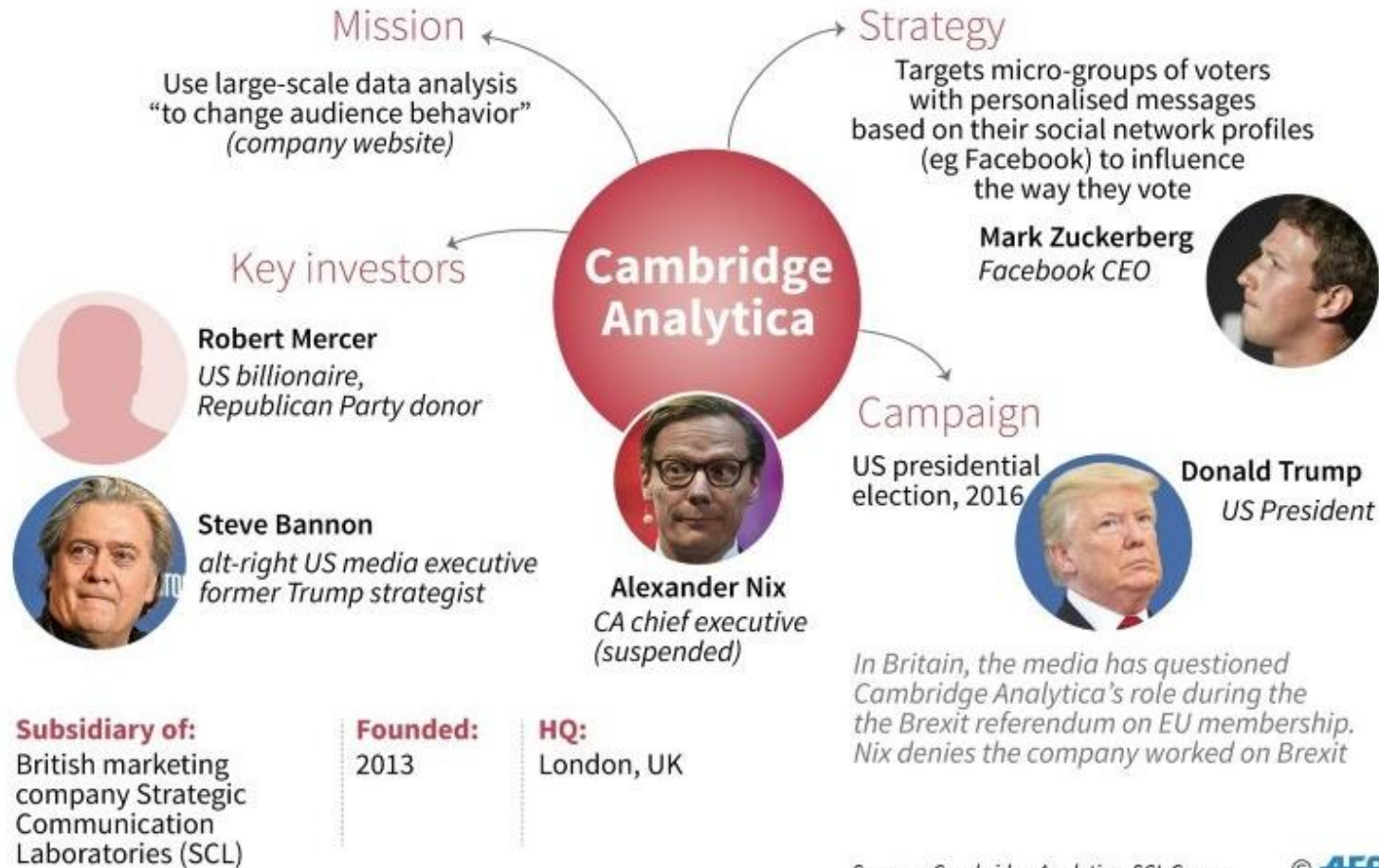
© 2014
Microsoft



U.S. Crashes, China Rises

Percent trust, 2017 vs. 2018







Palantir's past shows an incentive to help Cambridge Analytica. Flickr: Cory Doct

PREDICTABLE

Peter Thiel's Palantir Proves Yet Again That It's Sketchy As Hell



Benjamin Goggin Mar 28 2018, 1:27 PM · Updated: Mar 28 2018, 2:27 PM

Superpolitiet kommer – til en datamaskin nær deg

Politiet og tollvesenet har fått et supervåpen. I teorien kan det brukes til å overvåke oss alle.



Norske myndigheter har fått et nytt overvåkningsverktøy. Det er skremmende kraftig. FOTO: SHUTTERSTOCK

Google DeepMind NHS app test broke UK privacy law

🕒 3 July 2017

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The records collected by DeepMind went back over the past five years

A UK hospital did not do enough to protect the privacy of patients when it shared data with Google, the UK's Information Commission (ICO) has ruled.



TRAILER: I dokumentaren «Do You Trust This Computer?» kommer en rekke eksperter, blant dem Tesla- og SpaceX-gründer Elon Musk, med dystre spådommer for hvordan kunstig intelligens kommer til å påvirke menneskeheten i framtida. Video: Cinetic Media / Papercut Films

Elon Musk:

- Kunstig intelligens kan bli en udødelig diktator som vi aldri kan rømme fra

Tesla- og SpaceX-gründeren med klar advarsel i ny dokumentar.

hva er alternativet til

tillit?



kontroll

kontrakter



Det kompliserte samspillet

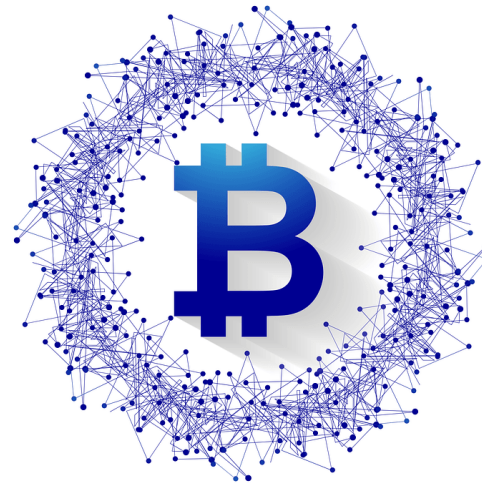
Teknologi ↔ Samfunn



Organisasjon

NTNU BLOCKCHAIN

- 6 stipendiater
- 3 teknologiprosjekter
- 1 helserelatert
- 1 industrielle verdikjeder
- 1 organisasjon, offentlig sector, forretningsmodeller



Harvard
Business
Review

TECHNOLOGY

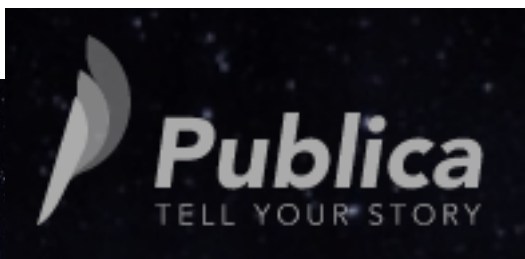
Blockchain Could Help Musicians Make Money Again

by Imogen Heap

JUNE 05, 2017

BLOCKCHAIN FOR

PUBLISHING



Dubai to Become a Blockchain City

👤 Guest 📅 January 5, 2018 🗂️ Crypto, News



[Home](#) › [News](#) › [Oxford academics launch 'blockchain university'](#)

Oxford academics launch 'blockchain university'

Woolf University will not have a physical campus, but will use an app which allows academics to advertise their services to prospective students

By **Matthew Roller** - March 22, 2018



SAMARBEID: Som første hotellkjede har Petter Stordalen og Nordic Choice Hotels inngått et samarbeider med Winding Tree, som står bak en distribusjonsplattform basert på blockchainteknologi. Foto: Bjørn Langsem / Dagbladet

Stordalen-hotell satser på Blockchain

Nordic Choice Hotels og Petter Stordalen er lei av dyre mellomledd i reiselivsbransjen.

**TEKNOLOGI
+ SAMFUNN
= SANT**

We Need Breakthrough Business Models, Not Breakthrough Technology

Technology doesn't transform markets, business models do



Du var vitne til

....
@arne

og Den norske digitalmisjonen

kontakt: arne@krokan.com