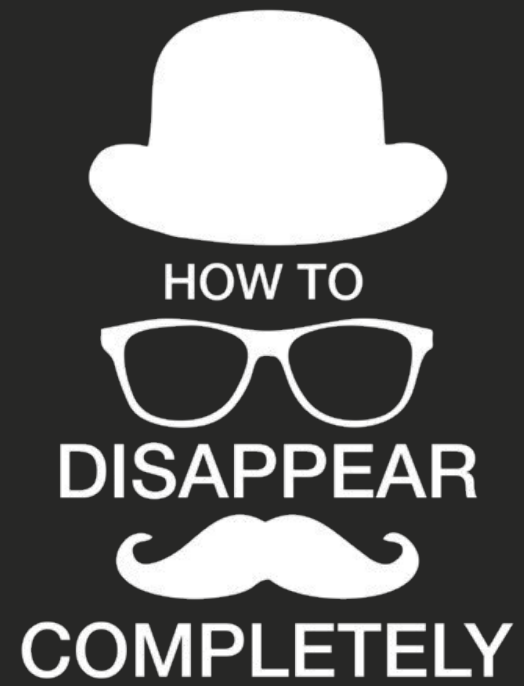
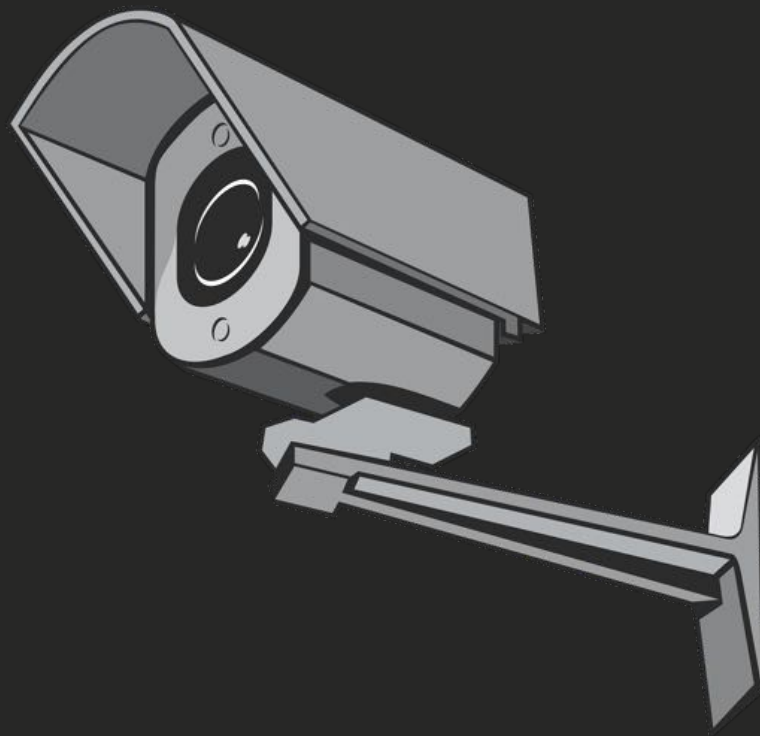




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Person of Interest, CBS/Warner Bros.

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Source: Reddit, u/ossssssx, 26/07/17

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Source: SenseTime

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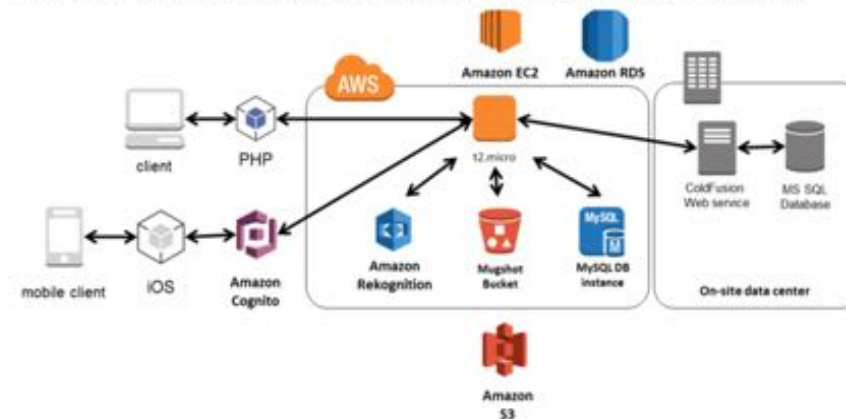
Source: SenseTime

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Using Amazon Rekognition to Identify Persons of Interest for Law Enforcement

by Chris Addima | on 15 JUN 2017 | in [Amazon Rekognition](#) | [Permalink](#) | [Comments](#) | [Share](#)

This is a guest post by Chris Adzima, a Senior Information Systems Analyst for the Washington County Sheriff's Office.



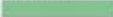
aws.amazon.com

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Joy Buolamwini (photograph by Niccolò Caranti, unmodified (CC BY-SA 4.0))

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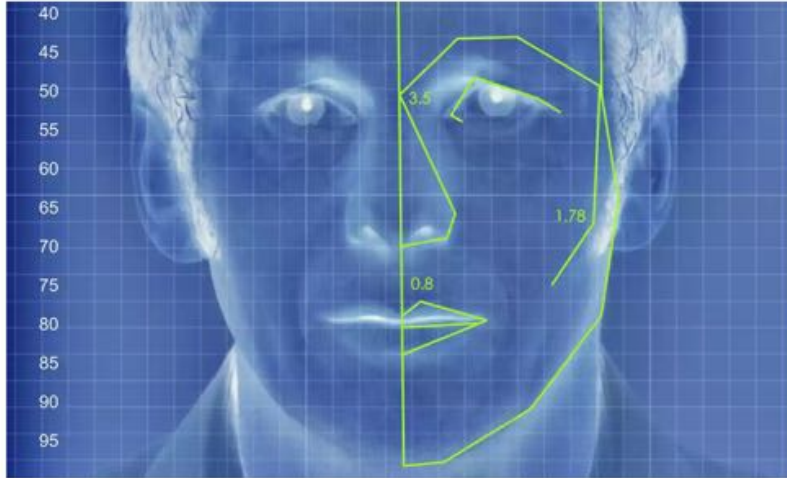
Gender Classifier	Darker Male	Darker Female	Lighter Male	Lighter Female	Largest Gap
 Microsoft	94.0% 	79.2% 	100% 	98.3% 	20.8% 
 FACE++	99.3% 	65.5% 	99.2% 	94.0% 	33.8% 
 IBM	88.0% 	65.3% 	99.7% 	92.9% 	34.4% 

Source: gendershades.org, Joy Buolamwini, MIT Media Lab

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New AI can guess whether you're gay or straight from a photograph

An algorithm deduced the sexuality of people on a dating site with up to 91% accuracy, raising tricky ethical questions



▲ An illustrated depiction of facial analysis technology similar to that used in the experiment. Illustration: Alamy

Source: The Guardian

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Source: OnSign TV, onsign.tv (CC BY 2.0)

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Source: news.com.au

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Supermarket chain Foodstuffs admits facial recognition technology used in some stores

14 May, 2018 5:00am

4 minutes to read



The screenshot shows the Aurore mobile app interface. At the top, there's a navigation bar with icons for Home, Incidents, People, and Vehicles, and an 'Add New' button. Below the navigation bar, a green checkmark icon is followed by the text 'Incident i12976 uploaded'. Underneath, it says 'The People in this incident are visible to retailers outside of your organisation and Police.' A diagram shows a store icon connected by curved lines to a police station icon, representing data sharing. Below the diagram, it states: 'An official report has been sent to the Police Crime Reporting Line (CRL) and will go through their normal investigation process. The Police are likely to get in touch with you with their investigation outcome.' At the bottom, there are two buttons: 'Go to Home Page' and 'View Incident'. To the right of the app interface, there are two small images: the top one shows a man in a dark sweater looking at a tablet, and the bottom one shows the headlights of a car at night.

Aurore transforms how police and communities prevent and solve crime. Source: Youtube / @Aurore HQ

Source: NZ Herald

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NEWS | By Jordan Pearson | Jun 19 2015, 4:21pm

Churches Are Using Facial Recognition to Track Members, This Startup Says

What happens when biometrics meet the Divine?

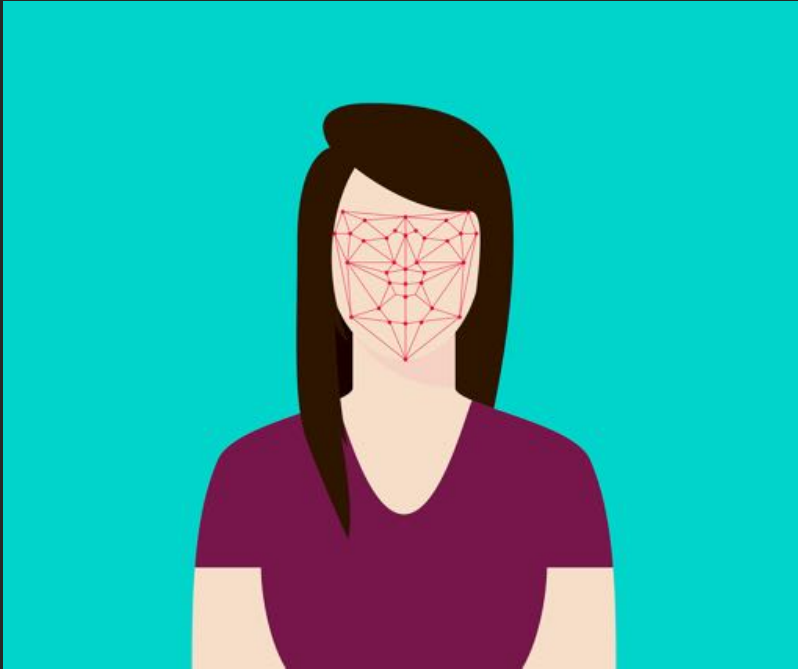
SHARE  



Image: Flickr/[Louis Berk](#)

Source: Motherboard

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DETECTION

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Source: Vox Observatory, [youtube.com/watch?v=Pc2aJxnmzh0](https://www.youtube.com/watch?v=Pc2aJxnmzh0)

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FACEPRINT CREATION

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Source: Vox Observatory, [youtube.com/watch?v=Pc2aJxnmzh0](https://www.youtube.com/watch?v=Pc2aJxnmzh0)

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Source: Vox Observatory, [youtube.com/watch?v=Pc2aJxnmzh0](https://www.youtube.com/watch?v=Pc2aJxnmzh0)

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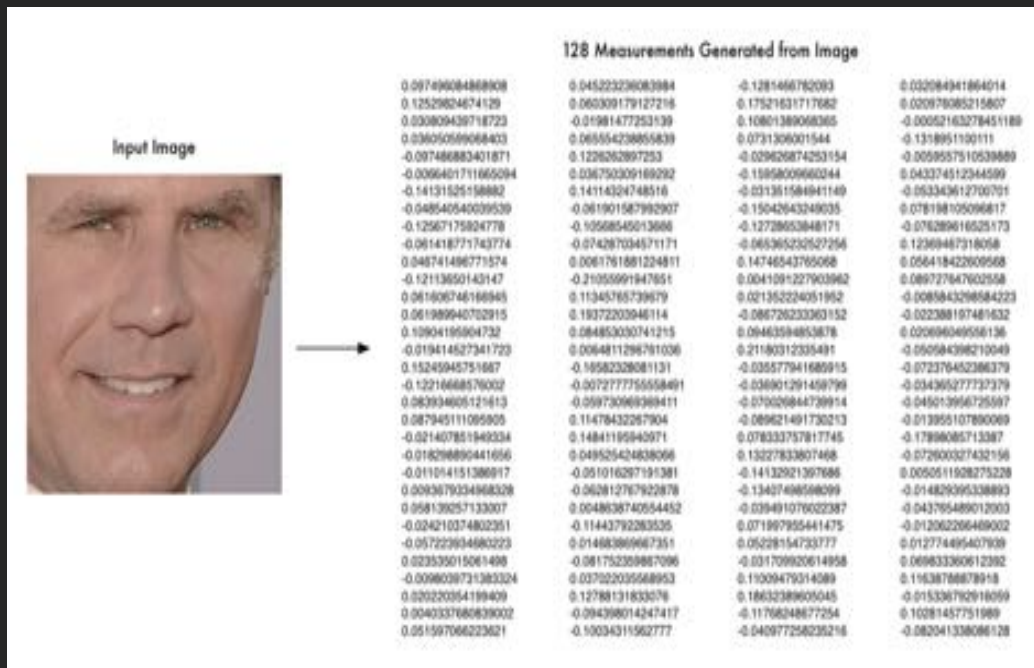


twitter.com/braddwyer/status/930680470064558080

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RECOGNITION

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Source: Adam Geitgey, "Machine Learning is Fun Pt. 4", medium.com

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```
import face_recognition
```



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HOW DO WE MESS
WITH THESE
THINGS?

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BECOMING INVISIBLE

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Windows 10 face unlock can be tricked using printed headshot

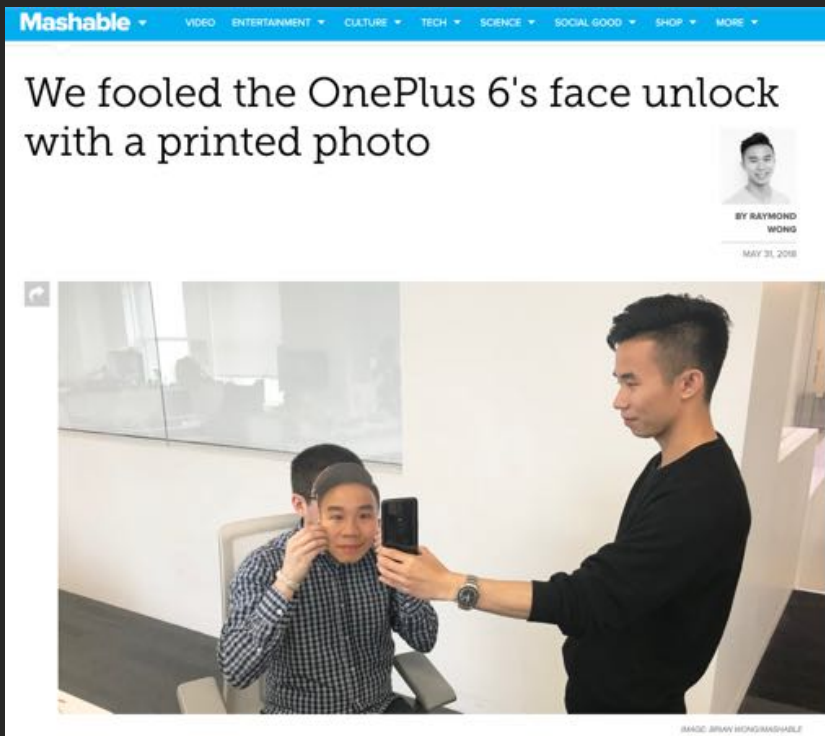
Near-infrared image trickery can allow an attacker to bypass Window 10 Hello face authentication.



By Liam Tung | December 20, 2017 -- 11:34 GMT (11:34 GMT) | Topic: Security

Source: ZDNet

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Source: Mashable

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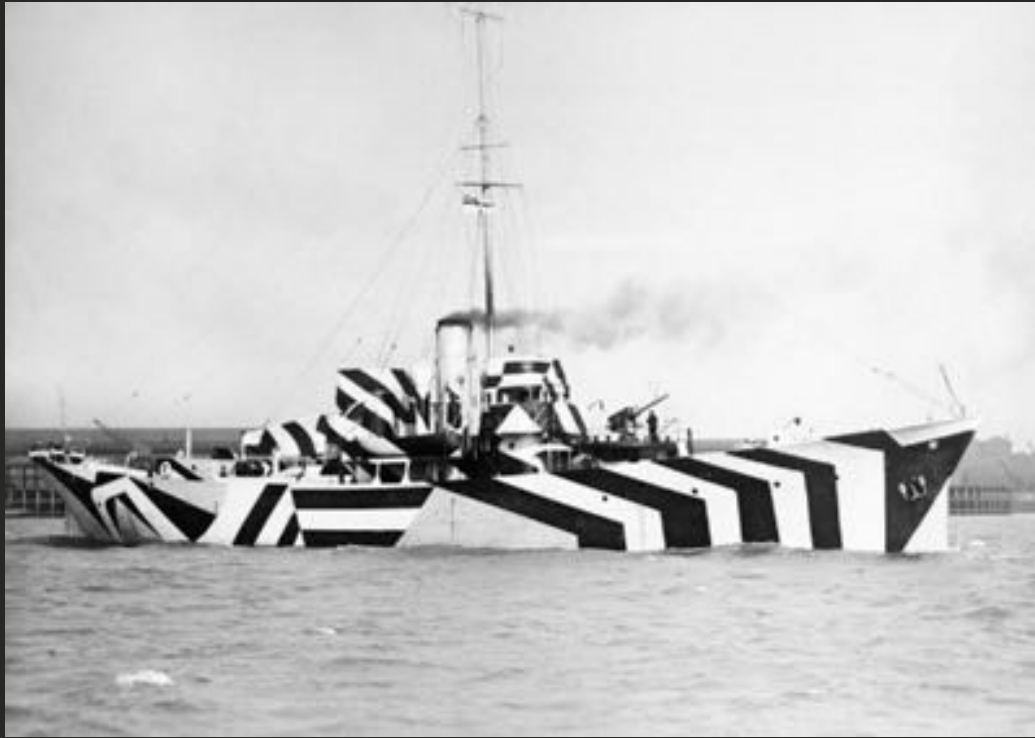


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ADAM HARVEY

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Look + 3

Photo ©Cha Hyun Seok
 From Cosmo Art Museum Workshop
 Creative Direction: Kim Hyuns
 Makeup: Moon Yoo Jin
 Makeup (Jewelry Details): Ba Yngil
 Makeup (Skud Details): Jung Ji Moon
 Hair: Choi Ji Soo, Gu Ye Na



Look + 4

Photo ©Cha Hyun Seok
 From Cosmo Art Museum Workshop
 Creative Direction: Kim Hyuns
 Makeup: Moon Yoo Jin
 Makeup (Jewelry Details): Ba Yngil
 Makeup (Skud Details): Jung Ji Moon
 Hair: Choi Ji Soo, Gu Ye Na

cvdazzle.com

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Anti-surveillance clothing aims to hide wearers from facial recognition

Hyperface project involves printing patterns on to clothing or textiles that computers interpret as a face, in fightback against intrusive technology



▲ An image of a Hyperface pattern, specifically created to contain thousands of facial recognition hits. Photograph: Adam Harvey

Source: The Guardian

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ACADEMIC METHODS

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"Adversarial Patch": Tom B. Brown, Dandelion Mané, Aurko Roy, Martín Abadi, Justin Gilmer

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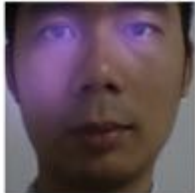
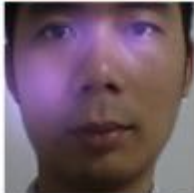
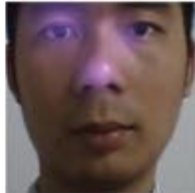
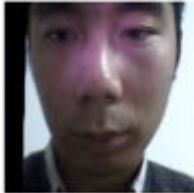
Invisible Mask: Practical Attacks on Face Recognition with Infrared

Zhe Zhou¹, Di Tang², Xiaofeng Wang³, Weili Han¹, Xiangyu Liu⁴, Kehuan Zhang²

¹Fudan University, ²CUHK, ³IUB, ⁴Alibaba Inc.

¹zhouzhe@fudan.edu.cn

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Victim Name	Moby	Hoi-chang	Nan	Vladimir
Victim Photo				
Adversarial Example				
Attacking Photo				

"Invisible Mask": Zhe Zhou, Di Tang, Xiaofeng Wang, Weili Han, Xiangyu Liu, Kehuan Zhang

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"Invisible Mask": Zhe Zhou, Di Tang, Xiaofeng Wang, Weili Han, Xiangyu Liu, Kehuan Zhang

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