

# Digitally Engaged, Data Savvy and Computationally Literate: Key Competencies for Future Citizens?

Professor Tom Crick MBE

9 June 2022

What do we mean by being  
**"digitally competent"**?

# How algorithms rule the world

The NSA revelations highlight the role sophisticated algorithms play in sifting through masses of data. But more surprising is their widespread use in our everyday lives. So should we be more wary of their power?

Leo Hickman

Monday 1 July 2013  
18.32 BST



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# HSE cyber-attack cost hits €43m, could rise to €100m

Updated / Wednesday, 23 Feb 2022 19:45



Around €12.7m has been spent on ICT infrastructure, €5.5m on cyber/strategic partner support, €15.3m on vendor support for applications and €8.4m on Office 365

# 'Extreme surveillance' becomes UK law with barely a whimper

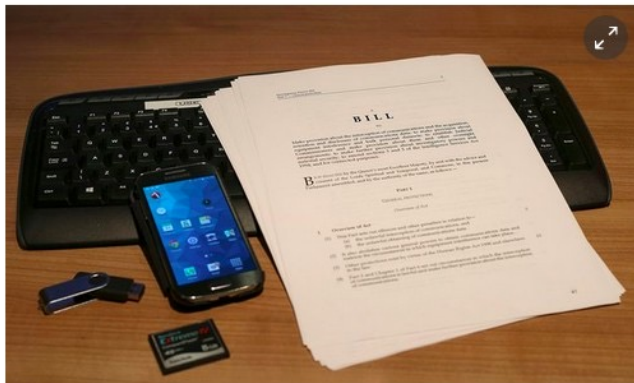
Investigatory Powers Act legalises range of tools for snooping and hacking by the security services

Ewen MacAskill

Saturday 19 November 2016 07.00 GMT



3,679



The Investigatory Powers Act was passed on Thursday. Photograph: Philip Toscano/PA

# UK to censor online videos of 'non-conventional' sex acts

Campaigners label bill targeted at online pornography a 'prurient' intervention that will take Britain's censorship regime back to pre-internet era

Damien Gayle

 @damiengayle

Wednesday 23 November 2016  
09.43 GMT



  
2,956



 The proposal would force internet service providers to block sites hosting content that would not be certified for commercial DVD sale by the British Board of Film Classification. Photograph: Dominic Lipinski/PA

Web users in the UK will be banned from accessing websites portraying a range of non-conventional sexual acts, under a little discussed clause to a government bill currently going through parliament.

## Trump's bid to ban TikTok and WeChat: where are we now?

It's been a confusing few weeks for the Chinese social media apps targeted by Trump - so where do things currently stand?



▲ Trump lawyers say it is in the interest of national security to ban TikTok because of its links between ByteDance, the app's parent company, and the Chinese government. Photograph: iStock/Getty Images

It's been a dizzying few weeks for **TikTok** and **WeChat**, the Chinese social media apps caught up in a trade war between the US and China.

## Turkey blocks use of Twitter after prime minister attacks social media site

Recep Tayyip Erdoğan threatens to 'root out' social media network where wiretapped recordings have been leaked



Two weeks ago Recep Tayyip Erdoğan suggested that a total ban on all social media sites like Facebook or Twitter was in his thoughts. Photograph: Adem Altan/AFP/Getty Images

## Russia blocks media outlets, others hacked over Ukraine war

Russian authorities have blocked the websites of some Russian media outlets over their reporting of the invasion of Ukraine, while hackers transposed a message across the main pages of others condemning the war

Via AP news wire • 1 day ago



Russia Ukraine War (Copyright 2022 The Associated Press. All rights reserved)

## Netizen Report: Bangladesh Bans Facebook and Chat Apps on 'Security Grounds'

Posted 20 November 2018 6:43 GMT



Demonstrators call for capital punishment for war criminals in Bangladesh, 2015. Photo by Mehdi Hossain Khan via Wikimedia (CC BY-SA 3.0)

Written by  
**Netizen Report Team**

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**Censorship, Regulation, Violent Threats, War & Conflict**

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Op-ed: Another terrorist attack, another government attempt at backdooring WhatsApp.

SEBASTIAN ANTHONY - 27/3/2017, 12:59





# China to build giant facial recognition database to identify any citizen within seconds

Project aims to achieve an accuracy rate of 90 per cent but faces formidable technological hurdles and concerns about security

PUBLISHED : Thursday, 12 October, 2017, 9:01pm

UPDATED : Friday, 13 October, 2017, 4:10pm

COMMENTS: 99

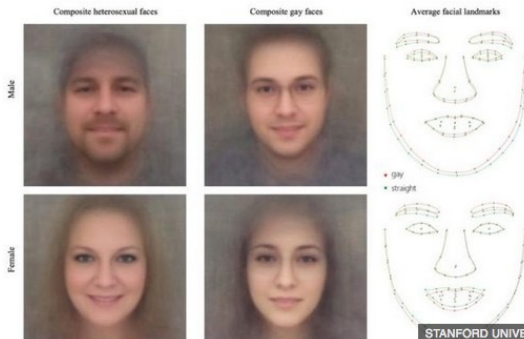


## Technology

### Row over AI that 'identifies gay faces'

🕒 11 September 2017 | [Technology](#)

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The study created composite faces judged most and least likely to belong to homosexuals

# Kendrick Lamar's New Deepfake Video Is a Masterpiece. That's Exactly the Problem

"The Heart Part 5" is poised to make deepfake technology more mainstream, but should it?



By Kristin Corry  
QUEENS, US

12 May 2022, 10:32pm



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May 25, 2022

# "How Dare They Peep into My Private Life?"

Children's Rights Violations by Governments that Endorsed Online Learning During the Covid-19 Pandemic





**Becky Yoose**

@yo\_bj



**Hot take - Data is not the new oil. Data is the new glitter:**

- Lures humans in with its shininess
- Very easy to accumulate
- Found in places you least likely expect to find it
- Almost impossible to get rid of
- Everyone insists on using it w/o thinking through the consequences

6:24 PM · Oct 14, 2020 · Twitter Web App



Future Society

# Are Engineers Responsible for the Consequences of Their Algorithms?

by Alexandra Ossola on September 8, 2017 🔥 1699

📷 Sonii Naaz/EyeEm/Getty Images

So what does being  
**"digitally competent"**  
now mean for a  
5/10/20/40/80-year-old?

# Digital tech is force for good as it changes lives around the world

Digital transformation within the public sector is opening up services and improving delivery in a wide range of areas worldwide





```
#include <stdio.h>
main()
{ printf ("Hello World!\n");
```



**Black Star**

@ChuckNyce116


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15 years of playing on Xbox live. The first time we have ever met, and he's a groomsman in my wedding. Online friends are real life friends.



11:27 PM - 16 Nov 2017

A young woman with dark curly hair, wearing a teal t-shirt and blue jeans, is assisting an elderly woman with short blonde hair. The elderly woman is wearing a pink cardigan over a light pink top and a pearl necklace. She is using a silver walker and looking down at it. The young woman is standing behind her, holding the walker's handle. They are outdoors on a path with trees and foliage in the background.

**Netflix used to come in  
the mail**

***sure grandma let's  
get you to bed***

So, how are we developing  
digitally **confident, capable  
and critical** future citizens?