

Data literacy in a time of COVID

Philip Kerr

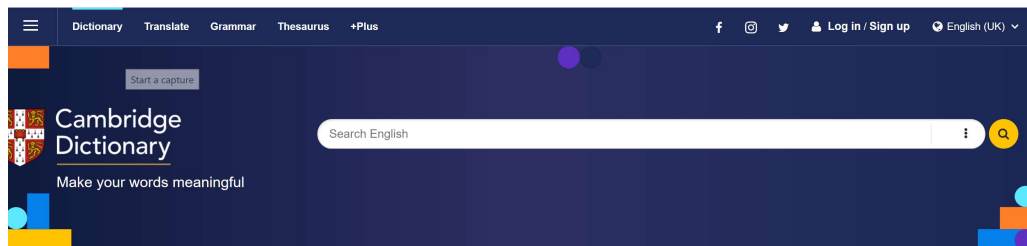
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Data literacy in a time of Covid



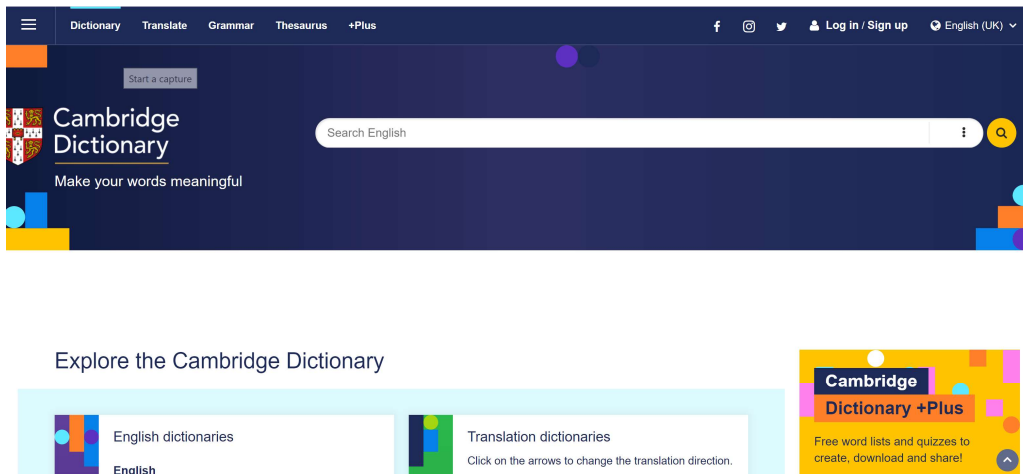
Philip Kerr
17 October 2020



Explore the Cambridge Dictionary



<https://dictionary.cambridge.org/>



<https://dictionary.cambridge.org/>

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Blacklight Inspection Result

Blacklight works by visiting each website with a headless browser running custom software built by The Markup. To learn more read our [methodology](#).

- 18** **Ad trackers found on this site.**
This is **more than double** the average of **seven** that we found on popular sites. ✓
- 20** **Third-party cookies were found.**
This is **more than** the average of **three** that we found on popular sites. ✓
- f** **When you visit this site, it tells Facebook.** ✓
- G** **This site allows Google Analytics to follow you across the internet.** ✓

<https://themarkup.org/blacklight/>



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Blacklight Inspection Result

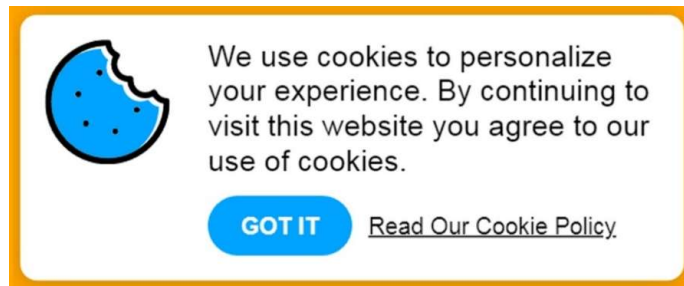
Blacklight works by visiting each website with a headless browser running custom software built by The Markup. To learn more read our [methodology](#).

20	Ad trackers found on this site. This is more than double the average of seven that we found on popular sites.	✓
31	Third-party cookies were found. This is more than the average of three that we found on popular sites.	✓
	When you visit this site, it tells Facebook.	✓
	This site allows Google Analytics to follow you across the internet.	✓

<https://www.macmillandictionary.com/>

<https://themarkup.org/blacklight/>

Data types



Create Account

Select your language:

1 Your Details

First Name Enter your First Name

Last Name

Email

Confirm Email

Date of Birth Day Month Year

Country Select Country

Telephone No.

Google

Google Search

I'm Feeling Lucky



Opera



Google Chrome



Safari



Mozilla Firefox



Internet Explorer



Microsoft Edge



Digital profiles



names
usernames
passwords
age
addresses
photographs
videos
documents
drawings
audio files
IP addresses
browser details
clicks
referring URL's
time spent on site
page views



Start a capture

Intelligencer



‘No Company Is So Important Its Existence Justifies Setting Up a Police State’

A conversation with legendary programmer Richard Stallman on the real meaning of “privacy rights” and why he only ever uses cash.

By Noah Kulwin



Companies are collecting data about people. The data that is collected will be abused. That’s not an absolute certainty, but it’s a practical, extreme likelihood, which is enough to make collection a problem. (Richard Stallman)

Kulwin, K. (2018). F*ck Them. We Need a Law’: A Legendary Programmer Takes on Silicon Valley, *New York Intelligencer*, 2018, <https://nymag.com/intelligencer/2018/04/richard-stallman-rms-on-privacy-data-and-free-software.html>

Uses and abuses

Education

College applications, grant awards,
academic grades

Employment

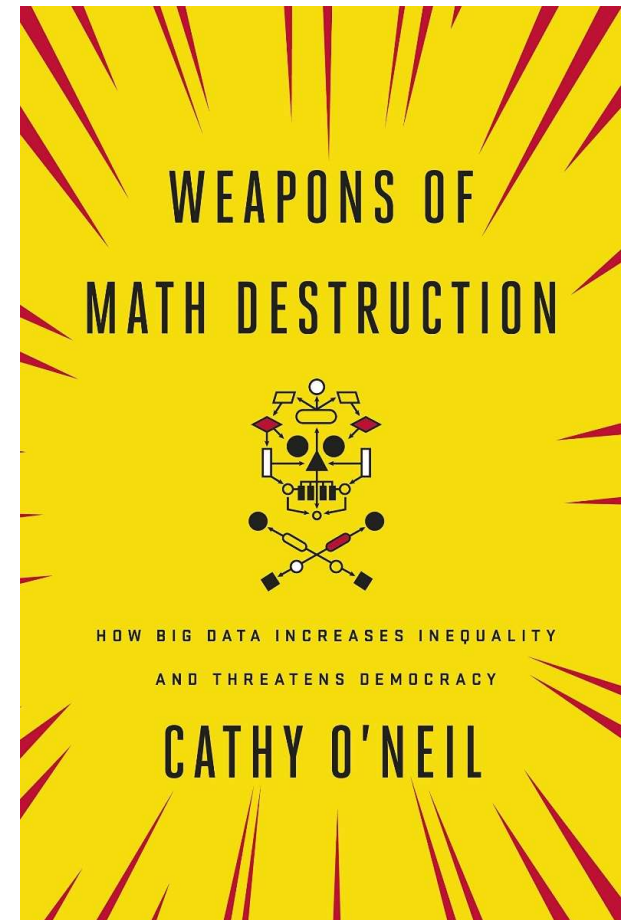
Job applications, promotion

Finance

Insurance, credit

Other

Housing, predictive policing



The Investigatory Powers Act 2016

<https://www.thetimes.co.uk/article/firms-get-public-data-in-dominic-cummings-tech-drive-s3s8j33fw>

<https://www.openrightsgroup.org/press-releases/cummings-data-plan-threatens-uk-privacy-rights/>



The Investigatory Powers Act 2016

Domestic extremism

- Animal rights
- Anti-arms trade
- Anti-fascist
- Anti-fracking
- Anti-fox-hunting
- Anti-nuclear
- Black Lives Matter
- Environmentalism
- Extinction Rebellion
- Palestinian solidarity



Search:

Rank		Country	Privacy Score
1	Start a capture	Norway	90.1
2		Australia	89.1
3		Denmark	87.4
4		Sweden	85.2
5		Finland	83.6
6		Germany	83.3
7		Canada	81.8
8		New Zealand	80.2
9		Estonia	77.6
10		Portugal	75.4
11		France	73.9
12		United Kingdom	73.2

<https://bestvpn.org/privacy-index/>

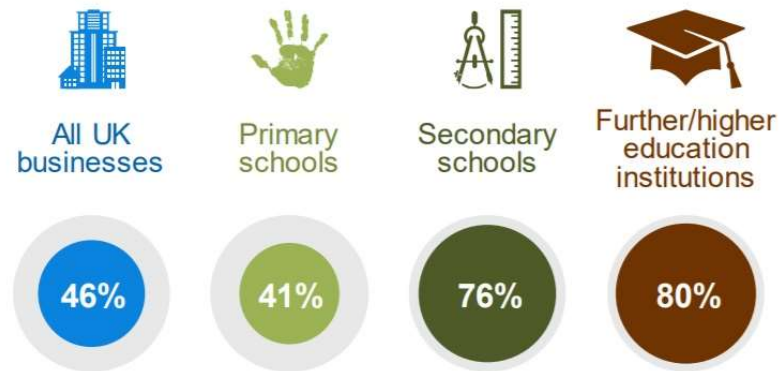
Data security



<https://edscoop.com/education-ranked-worst-at-cybersecurity-out-of-17-major-industries/>

Data security

Figure 2.1: Percentage of organisations that have identified breaches or attacks in the last 12 months

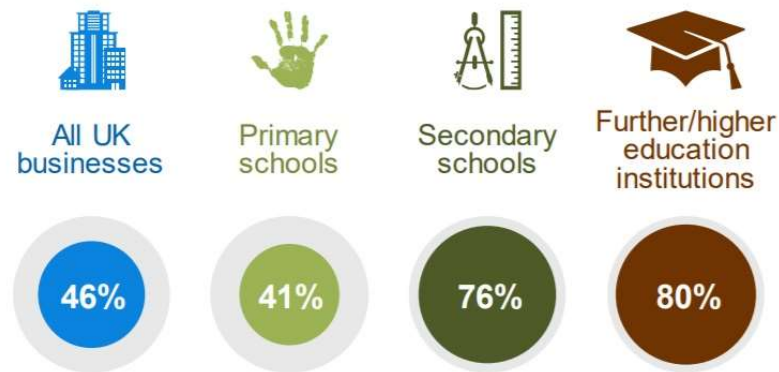


Bases: 1,348 UK businesses; 108 primary schools; 72 secondary schools; 35 further and higher education institutions

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/875574/Education_annex_-_Cyber_Security_Breaches_Survey_2020.pdf

Data security

Figure 2.1: Percentage of organisations that have identified breaches or attacks in the last 12 months



UK higher education institutions

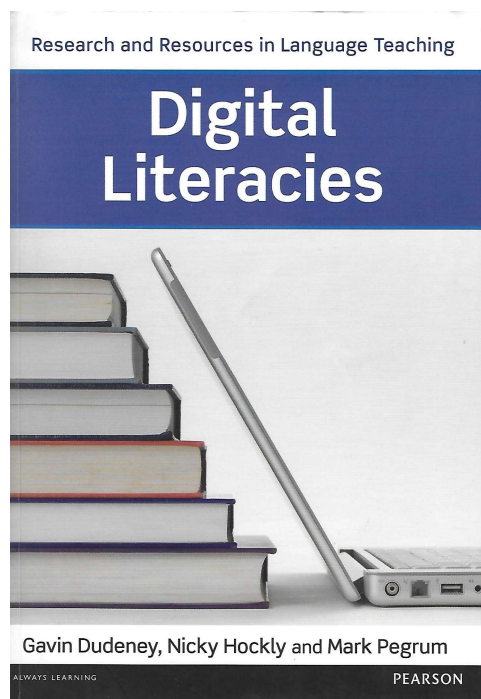
A total of 54% identified breaches or attacks at least once a week (vs. 11% of primary schools, 13% of secondary schools and 32% of UK businesses)

57% had a material outcome from these breaches, such as a loss of money or data (vs. 23% of primary schools, 32% of secondary schools and 19% of UK businesses).

Bases: 1,348 UK businesses; 108 primary schools; 72 secondary schools; 35 further and higher education institutions

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/875574/Education_annex_-_Cyber_Security_Breaches_Survey_2020.pdf

Digital literacies



	First focus: <i>Communication</i>	Second focus: <i>Information</i>	Third focus: <i>Collaboration</i>	Fourth focus: <i>(Re-)design</i>
i n c r e a s i n g c o m p l e x i t y	Print literacy Texting literacy			
	Hypertext literacy	Tagging literacy (+ <i>Hashtag literacy</i>)		
	Multimodal literacy	Search literacy Information literacy Filtering literacy	Personal literacy Network literacy Participatory literacy	
	Gaming literacy		Intercultural literacy	
	Mobile literacy			
	Code literacy			Remix literacy

Critical data literacy

Pegrum, M., Dudeney, G. & Hockly, N. (2018). Digital literacies revisited. *The European Journal of Applied Linguistics and TEFL*, 7 (2), pp. 3-24

i n c r e a s i n g c o m p l e x i t y	First focus: <i>Communication</i>	Second focus: <i>Information</i>	Third focus: <i>Collaboration</i>	Fourth focus: <i>(Re-)design</i>
	Print literacy Texting literacy (+ Predictive literacy)			
	Hypertext literacy	Tagging literacy (+ Hashtag literacy)		
	Multimodal literacy	Search literacy Information literacy (+ Data literacy) Filtering literacy	Personal literacy (+ Security literacy) Network literacy Participatory literacy	
	Gaming literacy (+ Gamification literacy) Spatial literacy Mobile literacy		Intercultural literacy	
	Code literacy (+ Technological literacy) (+ Robotic/AI literacy)		Ethical literacy	Critical literacy (+ Critical digital lit.) (+ Critical mobile lit.) (+ Critical material lit.) (+ Critical philosophical lit.) (+ Critical academic lit.) Remix literacy

Critical data literacy

[The development of] informed and critical stances toward how and why [our] data are being used. (Pangrazio & Selwyn, 2018)

Pangrazio, L. & Selwyn, N. (2018). 'It's not like it's life or death or whatever': young people's understandings of social media data. *Social Media + Society*, 4 (3): pp. 1–9. <https://journals.sagepub.com/doi/pdf/10.1177/2056305118787808>

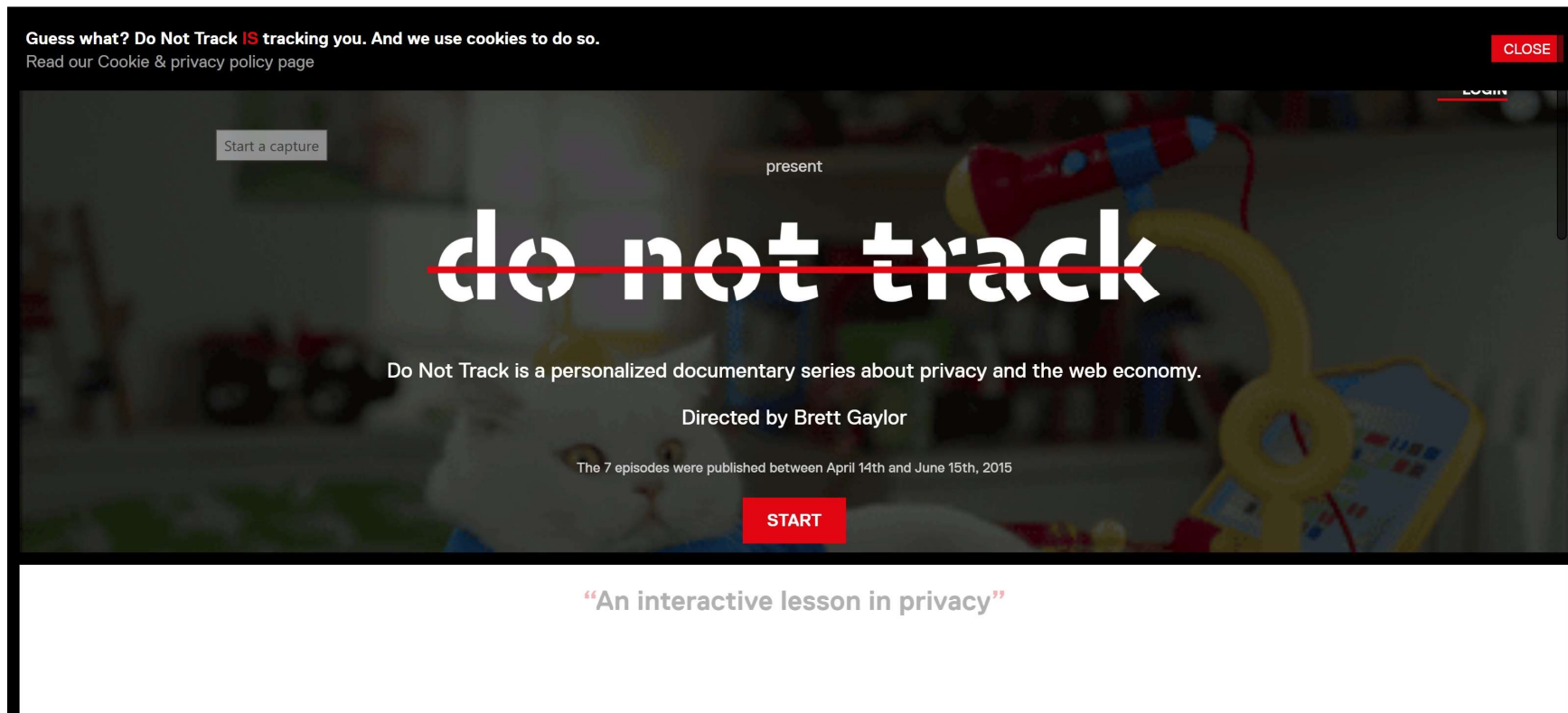
Pangrazio, L. & Selwyn, N. (2019). 'Personal data literacies': A critical literacies approach to enhancing understandings of personal digital data. *New Media and Society*, 21 (2): pp. 419 – 437

Pötzsch, H. (2019). Critical Digital Literacy: Technology in Education Beyond Issues of User Competence and Labour-Market Qualifications. *tripleC: Communication, Capitalism & Critique*, 17: pp. 221 – 240 Available at <https://www.triple-c.at/index.php/tripleC/article/view/1093>

Sander, I. (2020a). What is critical big data literacy and how can it be implemented? *Internet Policy Review*, 9 (2). DOI: 10.14763/2020.2.1479 <https://www.econstor.eu/bitstream/10419/218936/1/2020-2-1479.pdf>

Sander, I. (2020b). Critical big data literacy tools – Engaging citizens and promoting empowered internet usage. *Data & Policy*, 2: DOI: <https://doi.org/10.1017/dap.2020.5>

Teaching critical data literacy



<https://donottrack-doc.com/en/intro/>

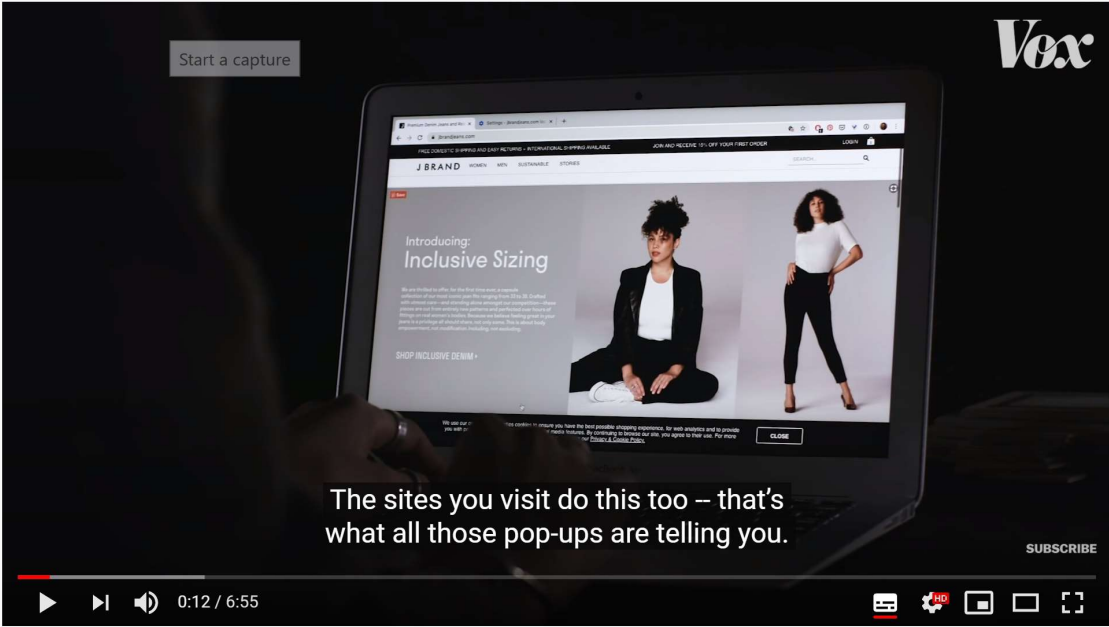
Teaching critical data literacy

YouTube AT

Search

Start a capture

Vox



The sites you visit do this too – that's what all those pop-ups are telling you.

SUBSCRIBE

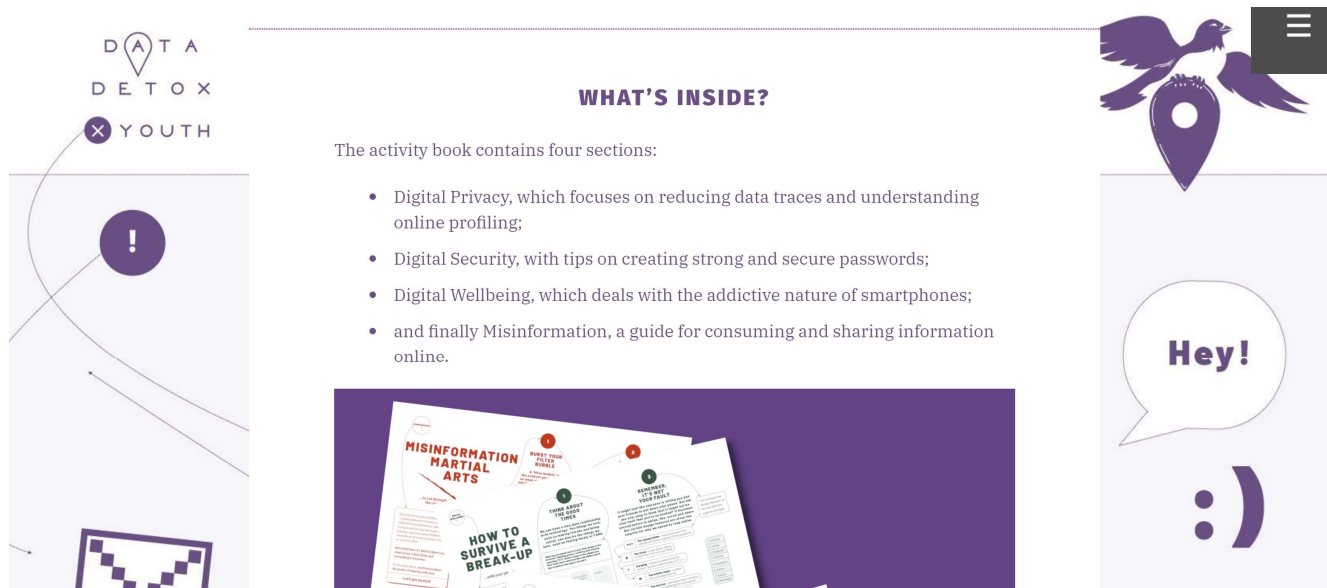
How ads follow you around the internet

897,792 views • 3 Feb 2020

27K 399 SHARE SAVE

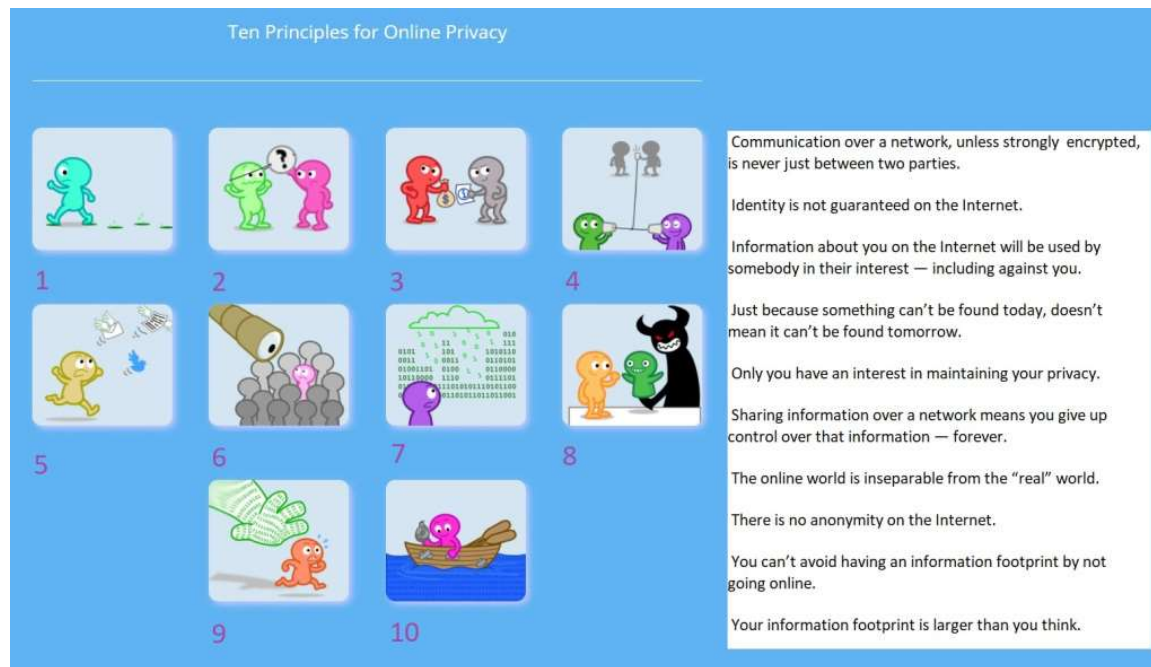
<https://www.youtube.com/watch?v=HFyaW50GFOs>

Teaching critical data literacy



<https://datadetoxkit.org/en/families/datadetox-x-youth/>

Teaching critical data literacy



<https://adaptivelearninginelt.wordpress.com/2020/09/23/critical-data-literacy-3-learning-teaching-resources/>

Teaching critical data literacy

GROUP A

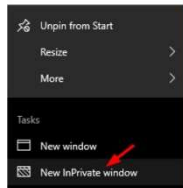
Browsing

1 How does private browsing help to protect your privacy? What does private browsing not protect you against? Find out more at https://en.wikipedia.org/wiki/Private_browsing

2 Check that you know how to activate private browsing on the device that you use.



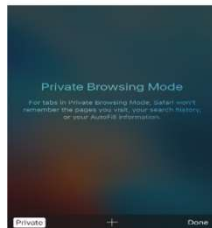
Incognito mode for Chrome



InPrivate mode for Microsoft Edge



Private Browsing for Mozilla Firefox



Private Window for Safari

3 What is Tor? How can it protect your privacy? Why is it illegal in some countries? Why might Tor restrict what you can do on the net?

Find out more at [https://en.wikipedia.org/wiki/Tor_\(anonymity_network\)](https://en.wikipedia.org/wiki/Tor_(anonymity_network))

<https://adaptivelearninginelt.wordpress.com/2020/09/23/critical-data-literacy-3-learning-teaching-resources/>

Data literacy in a time of Covid

A complex network graph with numerous blue circular nodes of varying sizes connected by thin, light blue lines. The nodes are densely packed in some areas and more sparse in others, creating a web-like structure. A prominent white node is visible near the bottom center.

Thanks!

Philip Kerr
17 October 2020

This session has now ended

We hoped that you enjoyed this presentation. Please continue to
your next session at:

www.learn.trinitycollege.co.uk/FoELT-event

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