Demystifying the science behind the COVID-19 pandemic

Associate Professor Siouxsie Wiles Bioluminescent Superbugs Lab



MEDICAL AND HEALTH SCIENCES





Scientist-communicator

Science/research doesn't end with a journal publication...



« Back-breaking work

And then came the conspiracy theories »

The veggie-burger disease? Siouxsie Wiles May 31

2 Comments

Escherichia coli, better known as E. coli, is a common inhabitant of the human gut. Most E. coli strains are harmless but a few can cause serious illness and even death. One such group, known as enterohaemorrhagic E. coli (EHEC) or Shiga-toxin producing E. coli (STEC), cause bloody diarrhoea, and in some people, Haemolytic Uraemic Syndrome (HUS) which can lead to anaemia,

kidney failure and death.

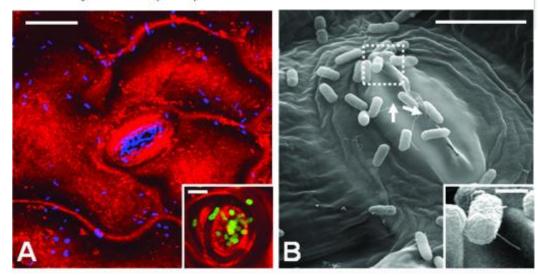


Image credit:

Shaw RK et al (2008). Enterohemorrhagic *Escherichia coli* exploits EspA filaments for attachment to salad leaves. Appl Environ Microbiol. 74(9):2908-14.

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SCIENCE

Science commentator Siouxsie Wiles

From **Nine To Noon**, 11:45 am today



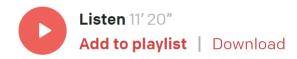




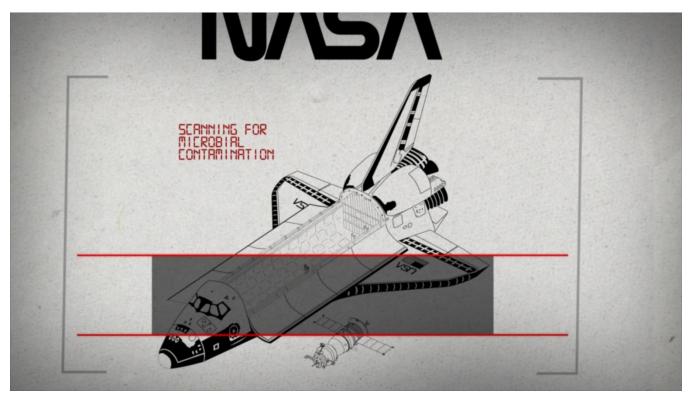








This week, scientist Dr Siouxsie Wiles talks about the devices that are letting hospital patients and care home residents stay out of bed, what to do when you've got hay fever, and how the sugar industry have played the same game as the tobacco industry.







You Tibe http://youtu.be/UUUytRoI-5g













Siouxsie & Eve Investigate

There are microscopic bugs all around us, on us and even living inside us. Some of these bugs are good, some are bad, but they're all fascinating! Join New Zealand's most colourful scientist Dr Siouxsie Wiles, and her daughter Eve as they investigate this hidden world of microbiology, and find out what's living in our belly buttons, how to make cheese from it (Eww!), and much more...



Episodes





Episode 2

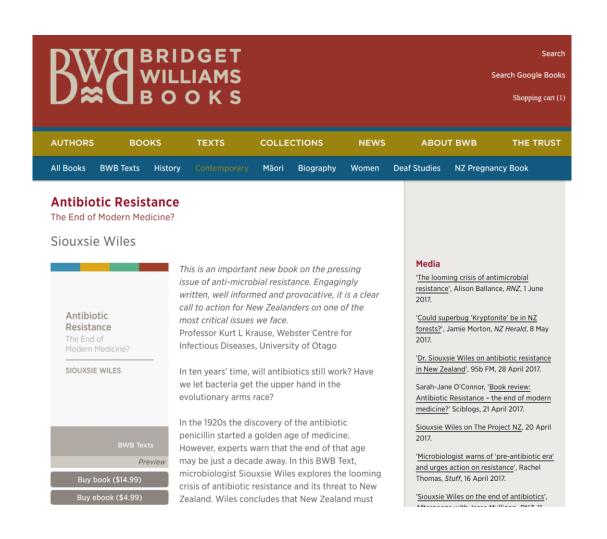




Damian Christie
@damianchristie Follows you

Story-teller, journalist, video-maker. Director of @AotearoaScience. damian@scienceagency.co.nz 2017 Prime Minister's Science Communication Prize winner.

Auckland Scienceagency.co.nz Born March 25 Joined March 2009



http://bwb.co.nz/books/antibiotic-resistance



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ESPINOFF

SOCIETY MAR 3, 2020



Covid-19 and kids: How to talk to children about the coronavirus

People have started asking me how they should talk to kids about the disease. So, here are some handy tips.

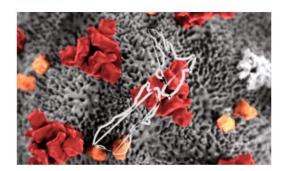
Read on.

SCIENCE MAR 2, 2020



Covid-19: How do you contract the coronavirus, and who is most at risk?

A new report on the Covid-19 outbreak has some important insights into the way it has progressed, and underscores why we should take it seriously. SCIENCE FEB 28, 2020



A practical guide to dealing with the arrival of the coronavirus in New Zealand

Do not panic. But do prepare. Here's what you need to do.

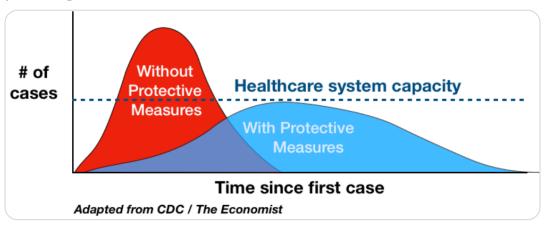
Read on.



thespinoff.co.nz



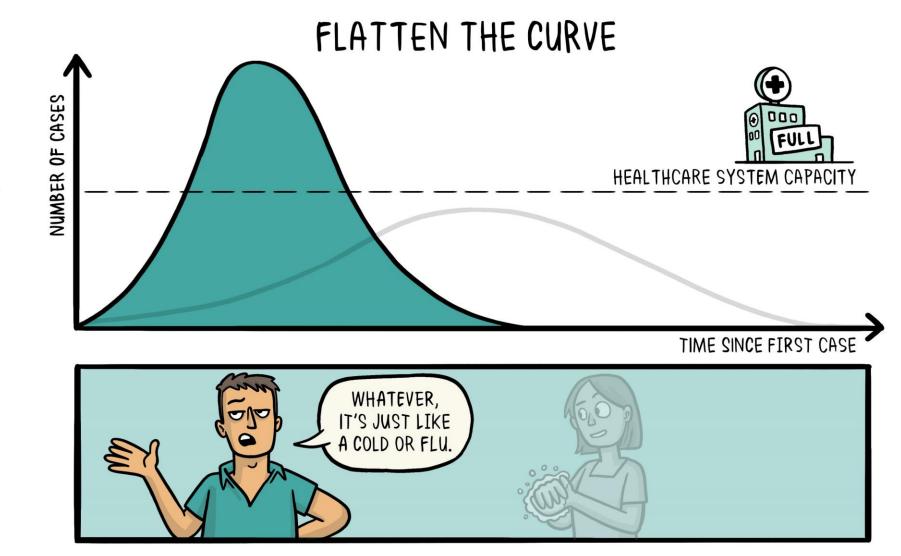
Important to remember that #Covid-19 epidemic control measures may only delay cases, not prevent. However, this helps limit surge and gives hospitals time to prepare and manage. It's the difference between finding an ICU bed & ventilator or being treated in the parking lot tent.

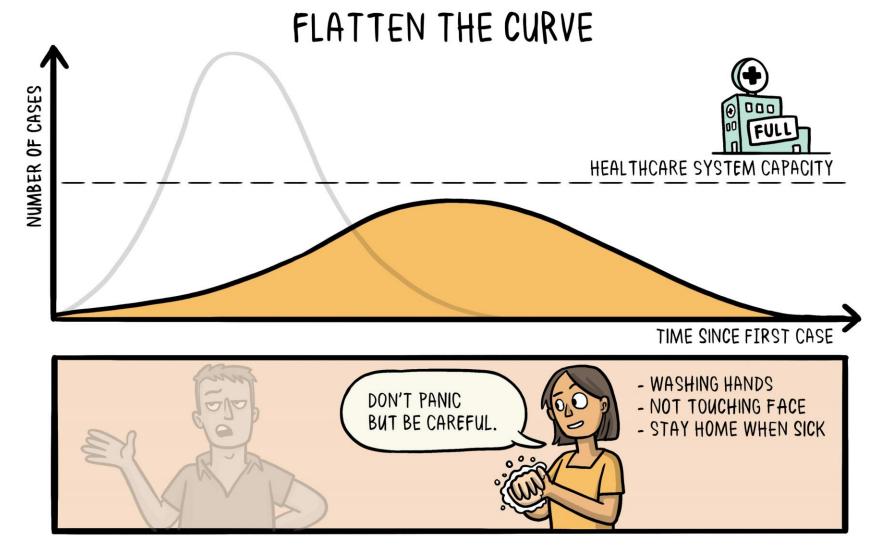


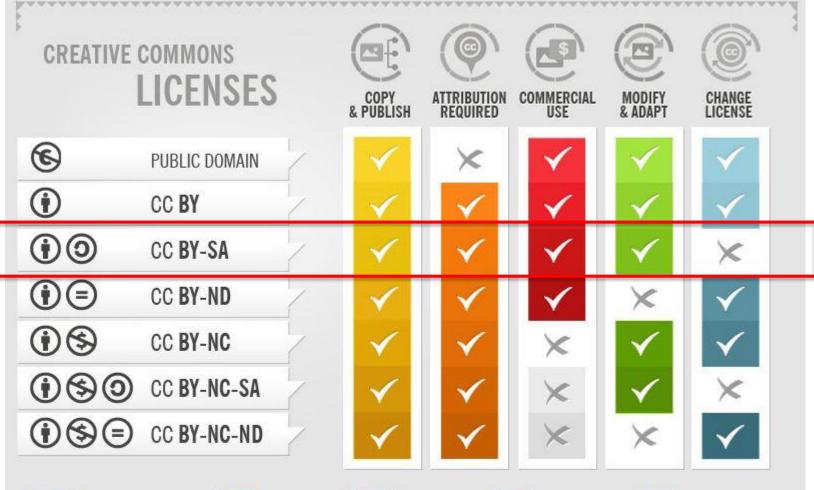
6:47 PM · Feb 28, 2020 · Hootsuite Inc.

1.2K Retweets 1.6K Likes

9th March









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If you only learn one thing about #COVID19 today make it this: everyone's job is to help FLATTEN THE CURVE. With thanks to @XTOTL & @TheSpinoffTV for the awesome GIF. Please share far & wide.





Dr Siouxsie Wiles @SiouxsieW

If you only learn one thing about #COVID19 today make it this: everyone's job is to help FLATTEN THE CURVE. With thanks to @XTOTL & @TheSpinoffTV for the awesome GIF. Please share far & wide. pic.twitter.com/O7xIBGAiZY

7:31 AM · Mar 9, 2020 · Twitter W

GIF XSIEW @XTOTL @THESPINOFFTV

Impressions

6,448,928

geable

does our

)r Siouxsi...

times people saw this Tweet on Twitter

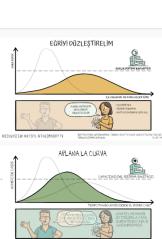
Media views 2,029,312

all views (autoplay and click) of your media are counted across videos, vines, gifs, and images

Total engagements

496,549

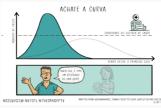
times people interacted with this Tweet



File:Covid-19-Eğriyi-Düzleştirelim.gif in Turkish



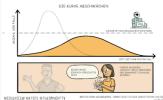
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File:Covid-19-curves-graphic-social-v3 - pt.gif In Portuguese



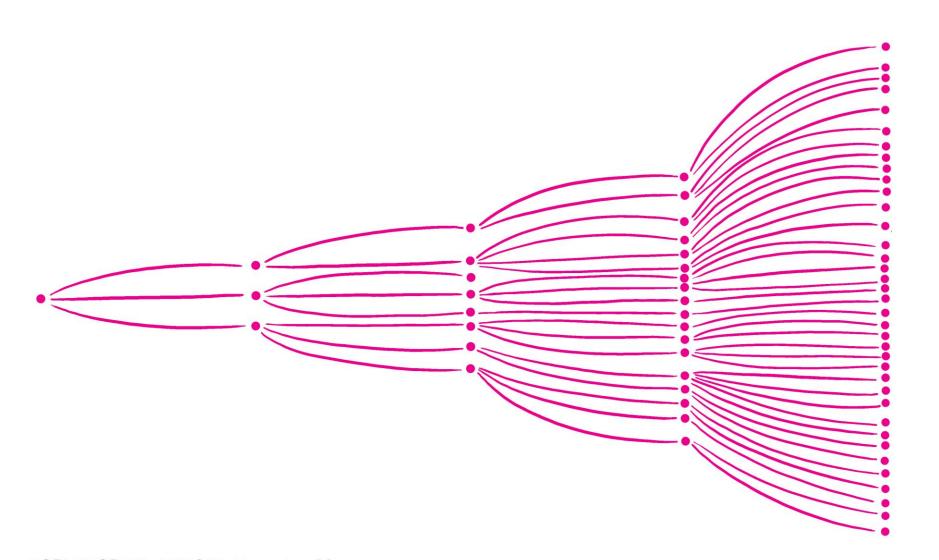
File:Covid-19-curves-graphic-social-v2-fr.gif In French

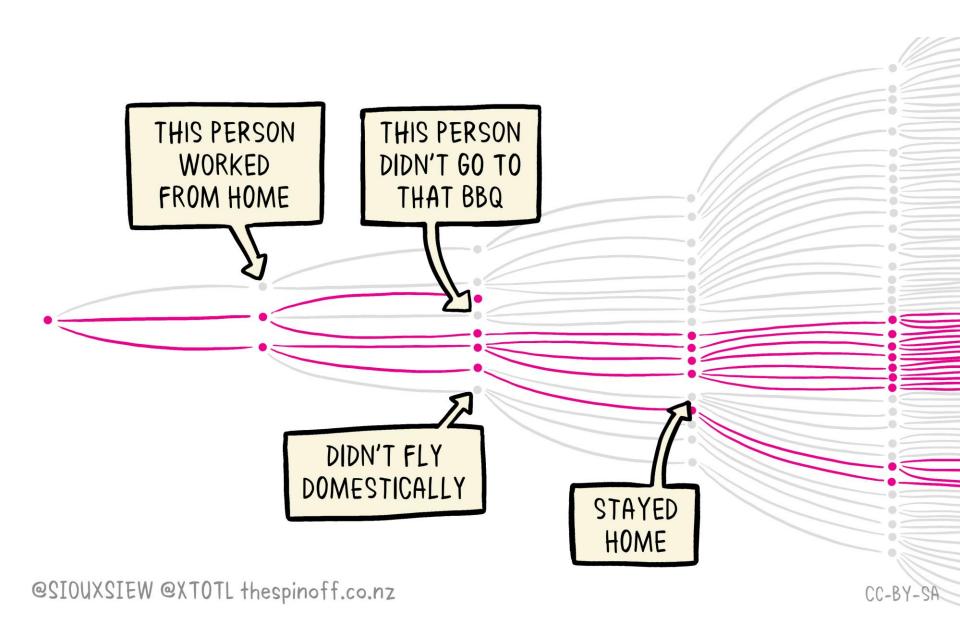


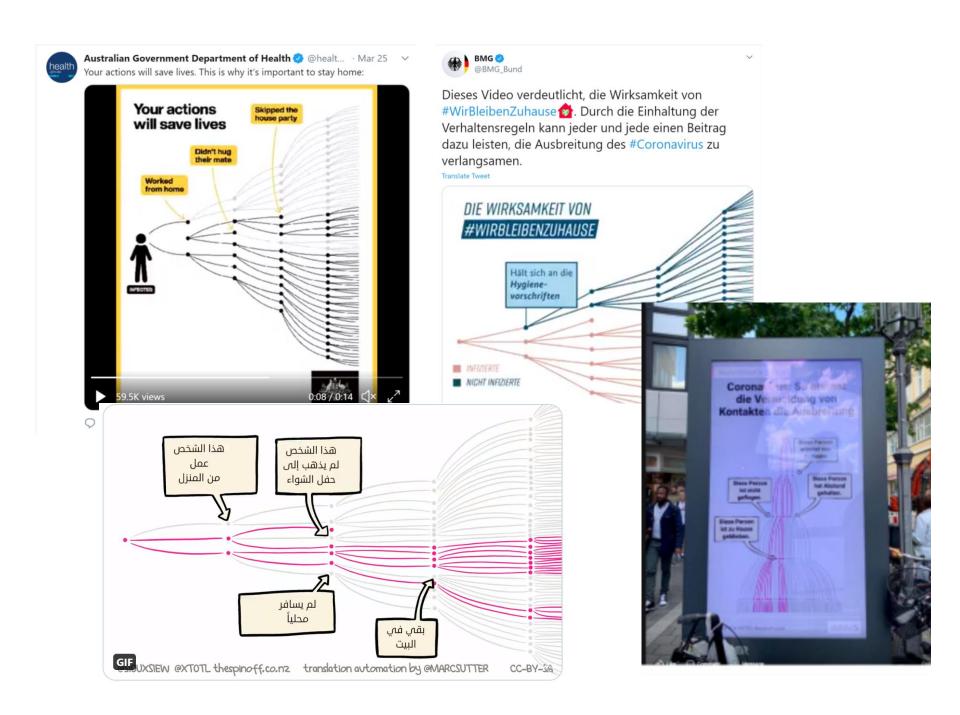
File:Covid-19-curves-graphic-social-v3-de.gif In German



File:Covid-19-curves-graphic-social-v3-id.gif in Indonesian







POTENTIAL SYMPTOMS OF COVID-19



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SOURCE: WHO, CDC CC-BY-SA 4.0

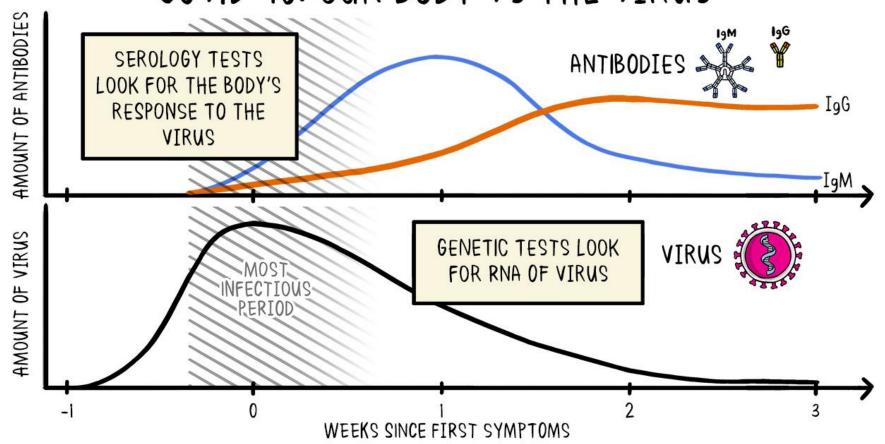
FOR THE LATEST INFO PLEASE SEE who.int or health.govt.nz

29 APRIL 2020

COVID-19 TRANSMISSION 101



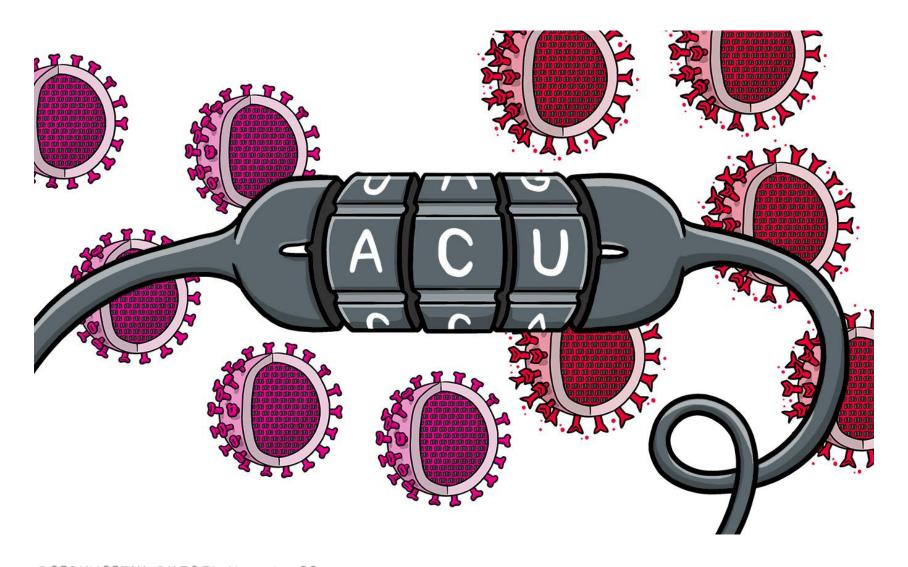
COVID-19: OUR BODY VS THE VIRUS



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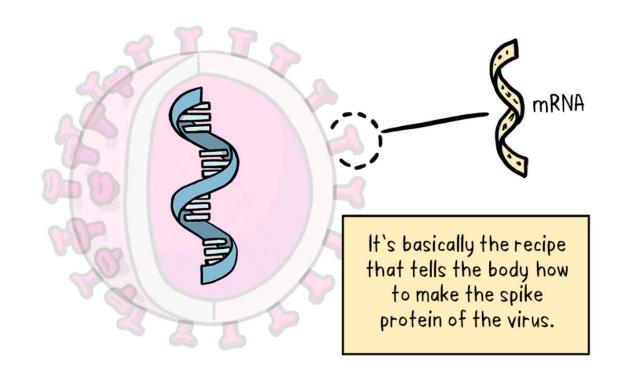
ADAPTED FROM: NATIONAL COVID TESTING SCIENTIFIC ADVISORY PANEL (2020) MEDRXIV (DOI: 10,1101/2020.04,15.20066407) HE X, LAU EHY, ET AL (2020) NATURE MEDICINE

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THE PFIZER/BIONTECH COVID-19 VACCINE EXPLAINED



ALTERNATIVES TO HANDSHAKES, HUGS, HIGH FIVES AND HONGI



THE WAVE



THE HAND ON HEART



NAMASTE



NZSL: HOW ARE YOU?



THE 'HI-BROWS'



THE 'ALL GOOD' NOD

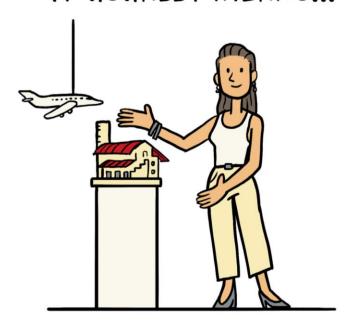


THE 'EAST COAST WAVE'



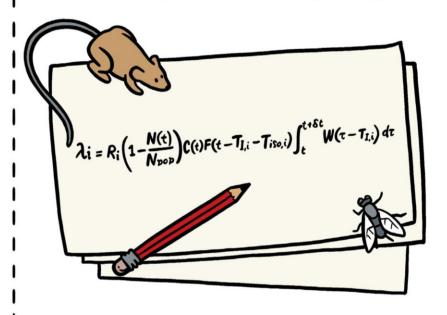
THE 'WHAT A WORLD EH?'

IT USUALLY MEANS...

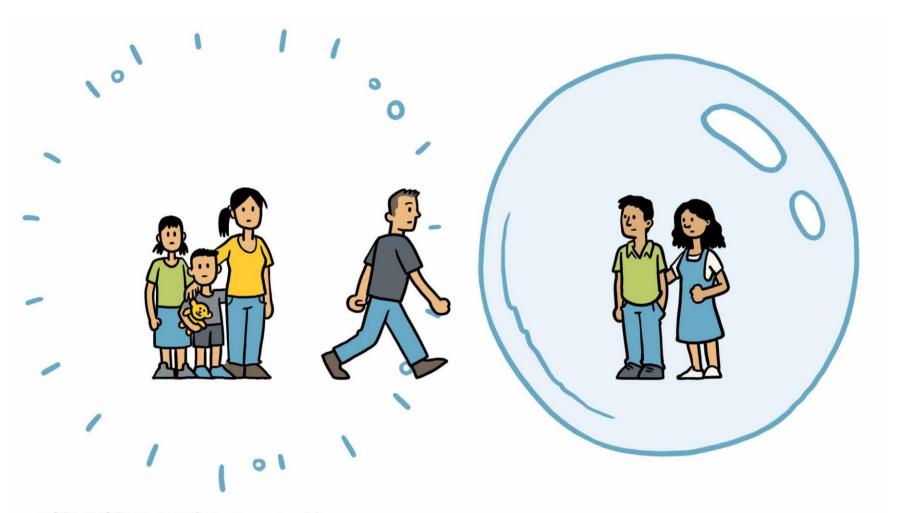


a small replica, or a person who demonstrates clothes

BUT SCIENTISTS MEAN...



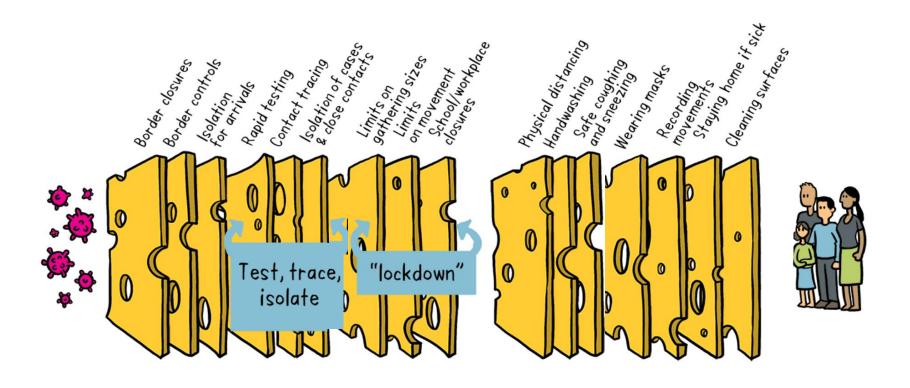
a simulation or representation of the real world



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THE EMMENTAL CHEESE MODEL





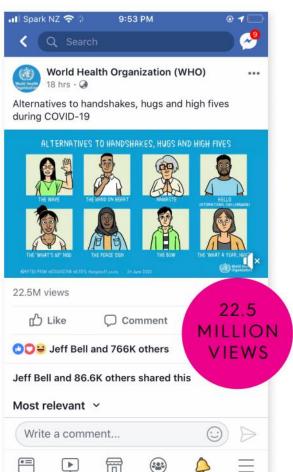


Independent of government

Provide information in bitesize, understandable pieces

Make it engaging and sharable









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The bumper Toby Morris & Siouxsie Wiles Covid-19 box set

https://thespinoff.co.nz/media/04-09-2020/the-great-toby-morris-siouxsie-wiles-covid-19-omnibus/