

# *Communicating a pandemic*

Associate Professor Siouxsie Wiles  
Bioluminescent Superbugs Lab



THE UNIVERSITY OF  
**AUCKLAND**  
Te Whare Wānanga o Tāmaki Makaurau  
NEW ZEALAND

**MEDICAL AND  
HEALTH SCIENCES**





Manaaki Whenua  
Landcare Research



**MEDICAL AND  
HEALTH SCIENCES**



Image credit: Manaaki Whenua



New Zealand **Carbon Farming**



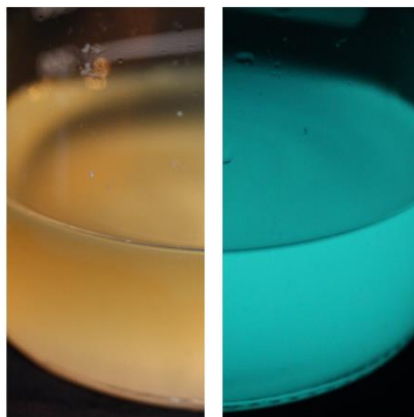


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Landcare Research

Bevan Weir



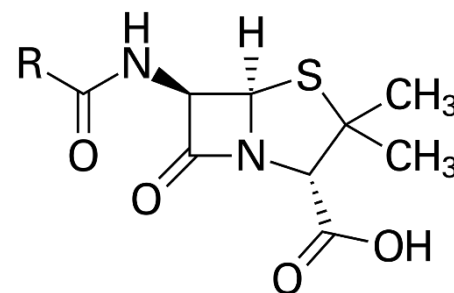
\*Gross misrepresentation  
of the fungi in the ICMP...



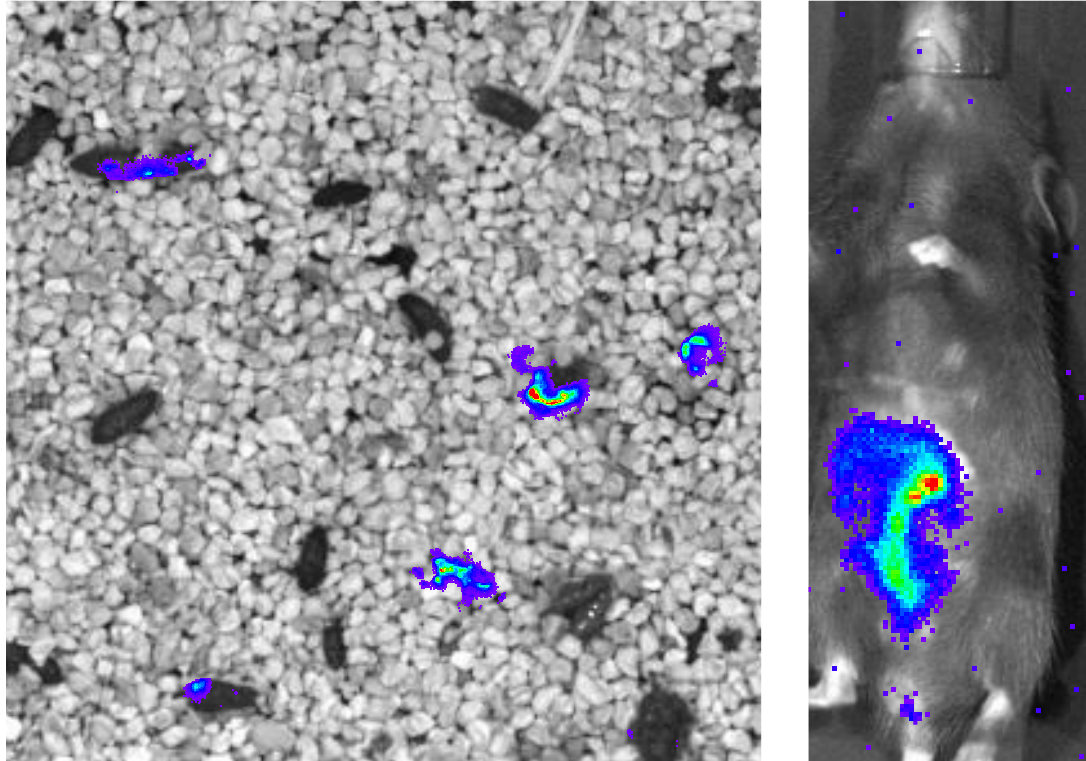
## MEDICAL AND HEALTH SCIENCES



Brent Copp



\*Hopefully not just  
penicillin again and  
again...



**What makes a microbe infectious?**

# The Cost of Knowledge

## Researchers Taking a Stand. [See the list](#)

Academics have protested against Elsevier's business practices for years with little effect. These are some of their objections:

1. They charge exorbitantly high prices for subscriptions to individual journals.
2. In the light of these high prices, the only realistic option for many libraries is to agree to buy very large "bundles", which will include many journals that those libraries do not actually want. Elsevier thus makes huge profits by exploiting the fact that some of their journals are essential.
3. They support measures such as SOPA, PIPA and the ~~Research Works Act~~, that aim to restrict the free exchange of information.

The key to all these issues is the right of authors to achieve easily-accessible distribution of their work. If you would like to declare publicly that you will not support any Elsevier journal unless they radically change how they operate, then you can do so by filling in your details on this page.

More information:

- [Statement of Purpose](#)
- [PolyMath journal publishing reform page](#)

[Read our blog](#), and follow the boycott on Twitter [here](#).

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OUT FOR REVIEW.



Image credit:

XKCD - <https://xkcd.com/2025/>

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



## Scientist-communicator



SCIENCE

# Science commentator Siouxsie Wiles

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





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This week, scientist Dr Siouxsie Wiles talks about the device and care home residents stay out of bed, what to do when your sugar industry have played the same game as the tobacco industry

**THE SPINOFF**
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Siouxsie Wiles

**Contributing writer**

Dr Siouxsie Wiles is an Associate Professor and head of the Bioluminescent Superbugs Lab at the University of Auckland. She and her team make nasty bacteria glow in the dark to find new medicines and to study how bacteria evolve to cause disease. Siouxsie recently published her first book, Antibiotic Resistance: the End of Modern Medicine? She is also a keen blogger, tweeter and podcaster and was a finalist for the 2018 Kiwibank New Zealander of the Year.

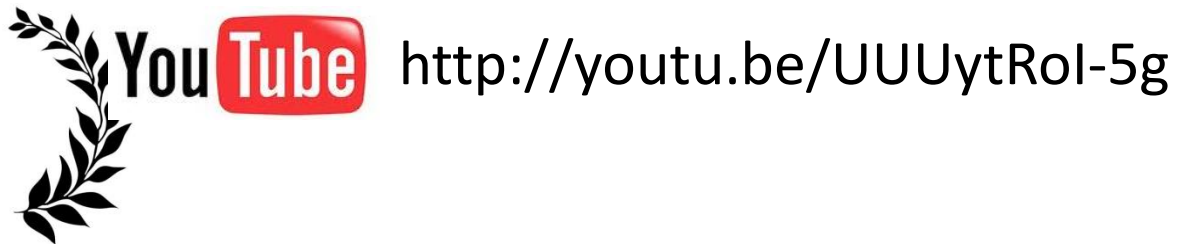
SCIENCE JUL 5, 2018



## How genetic modification helps the Impossible Burger take flight

Genetic engineering is central to success of the synthetic meat that has been embraced by Air NZ and caused a flap among MPs

[Read on.](#)



HEI  
IH



A-Z



## 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



**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

**And then the  
pandemic arrived...**





Scientist-communicator





APPS



SCIENCE

MAR 5, 2020



### A glance at the global spread of Covid-19, beyond China

Which places have the largest number of coronavirus cases outside mainland China?

[Read on.](#)

SCIENCE

MAR 5, 2020



### Can you catch Covid-19 from someone without symptoms?

The latest confirmed case in NZ is an important reminder that we should be mindful of our behaviour.

[Read on.](#)

POLITICS

MAR 4, 2020



### Some advice for Simon Bridges on being responsible in a health emergency

Time to tone down the anecdotal criticisms, and rein in MPs urging people to panic-buy.

[Read on.](#)

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.

SOCIETY

MAR 1, 2020



### Many countries have done a great job on Covid-19. But one really worries me

We will soon see what happens when this coronavirus meets a woefully underprepared national response.

[Read on.](#)

SCIENCE

FEB 29, 2020

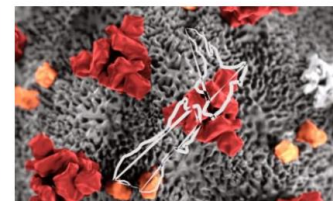


### Covid-19: How close are we to a vaccine for the novel coronavirus?

NZ has confirmed its first case of COVID-19. As the virus approaches global pandemic status, what progress is being made in developing a vaccine?

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.](#)



## Global Cases

39,899,915

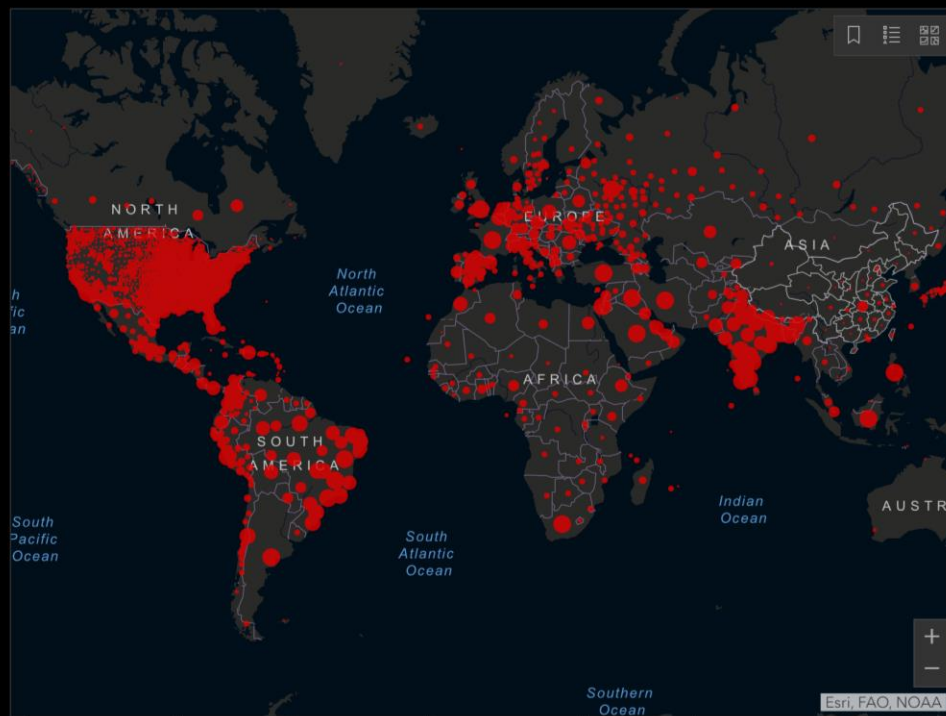
### Cases by

Country/Region/Sovereignty

8,154,594	US
7,494,551	India
5,224,362	Brazil
1,390,824	Russia
989,680	Argentina
959,572	Colombia
936,560	Spain
876,342	France
865,549	Peru
851,227	Mexico
725,292	United Kingdom
703,793	South Africa
530,380	Iran
491,760	Chile
426,634	Iraq

Admin0

Last Updated at (M/D/YYYY)  
10/19/2020, 5:24 PM



Cumulative Cases

Active Cases

Incidence Rate

Case-Fatality Ratio

Testing Rate

189

countries/regions

Lancet Inf Dis Article: [Here](#). Mobile Version: [Here](#). Data sources: [Full list](#). Downloadable database:

[GitHub](#), [Feature Layer](#).

Lead by JHU CSSE. Technical Support: [Esri Living Atlas team](#) and [JHU APL](#). Financial Support: [JHU](#), [NSF](#), [Bloomberg Philanthropies](#) and [Stavros Niarchos Foundation](#). Resource support: [Slack](#), [Github](#) and [AWS](#). Click [here](#) to **donate** to the CSSE dashboard team, and other JHU COVID-19 Research

## Global Deaths

1,112,599

219,674 deaths  
US

153,675 deaths  
Brazil

114,031 deaths  
India

86,167 deaths  
Mexico

43,736 deaths  
United Kingdom

36,543 deaths  
Italy

33,775 deaths  
Spain

Global Deaths

## US State Level Deaths, Recovered

33,357 deaths, **78,362**  
*recovered*  
New York US

17,465 deaths, **726,231**  
*recovered*  
Texas US

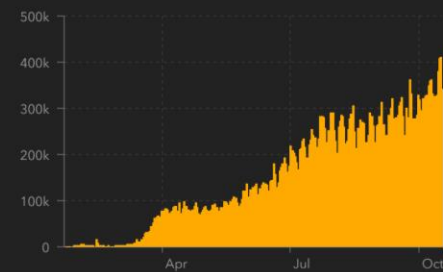
16,979 deaths, *recovered*  
California US

16,211 deaths, **35,889**  
*recovered*  
New Jersey US

15,967 deaths, *recovered*  
Florida US

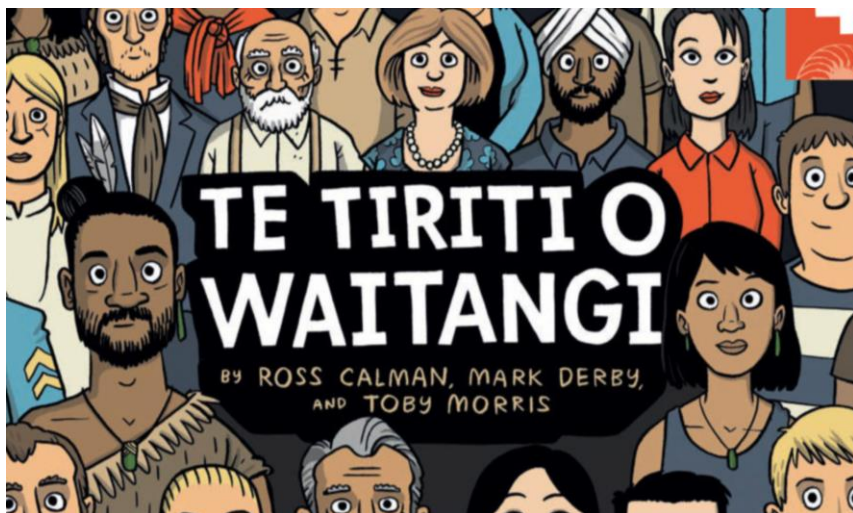
9,737 deaths, **118,892**  
*recovered*

US Deaths, Reco...



Daily Cases



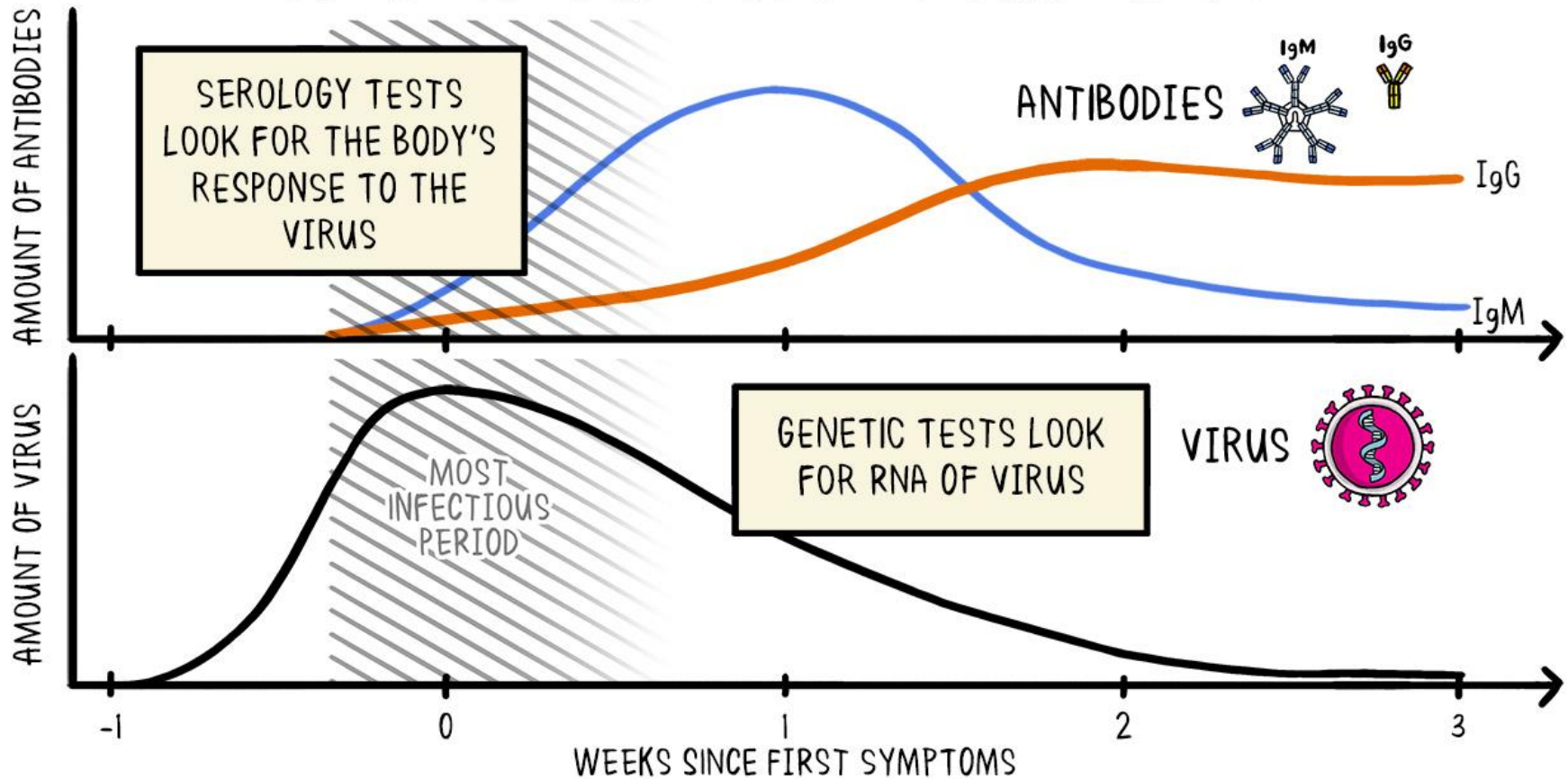


Fairer Future: Fixing Poverty in Aotearoa



Toby Morris  
(@XTOTL)

# COVID-19: OUR BODY VS THE VIRUS



@SIOUXSIEW @XTOTL thespinoff.co.nz

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

CC-BY-SA 4.0  
 3 MAY 2020

**HEALTH** 03/11/2020 03:18 pm ET | Updated Mar 15, 2020



## Here's Why Everybody's Talking About 'Flattening The Curve'

The coronavirus is now officially a pandemic. It's going to require everybody's help to control its impact.

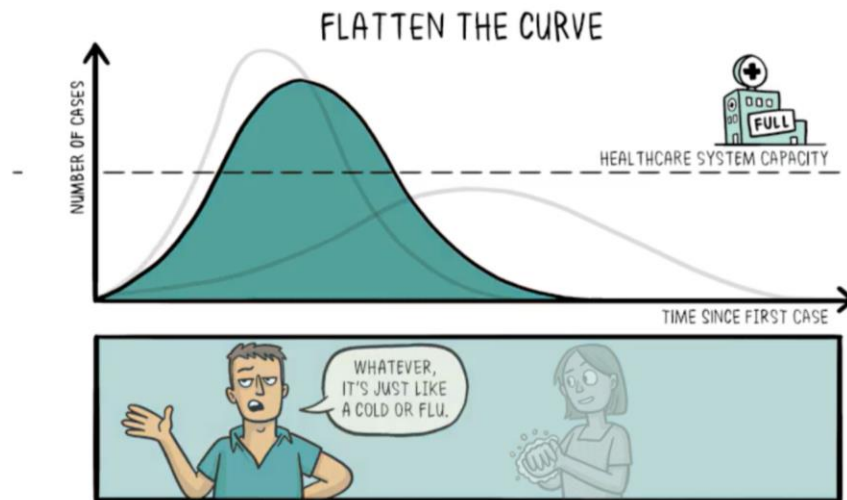
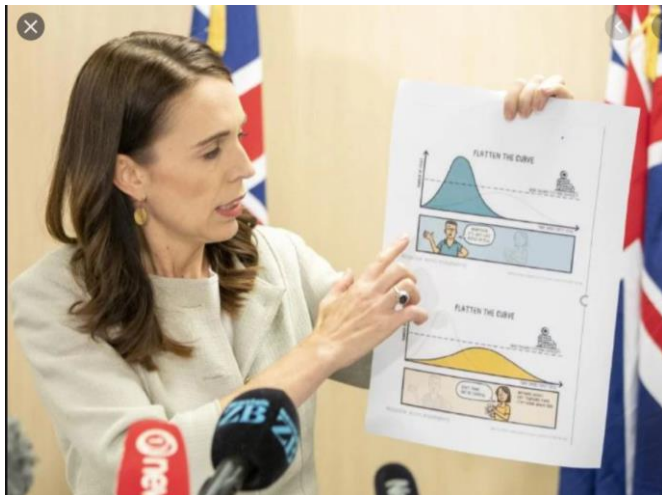


By Sara Boboltz

Now that coronavirus cases in the U.S. have [ticked up to four figures](#), the big question is how many people may ultimately become infected and how quickly it will happen.

With everyone wondering the same thing, there's a phrase you might have seen in a hashtag: Flatten the curve.

The curve, in this context, is simply the number of people who contract COVID-19, the disease caused by the new coronavirus, over time. It's easiest to understand if you see it drawn out:



@SIOUXSIEW @XTOTL @THESPINOFFTV

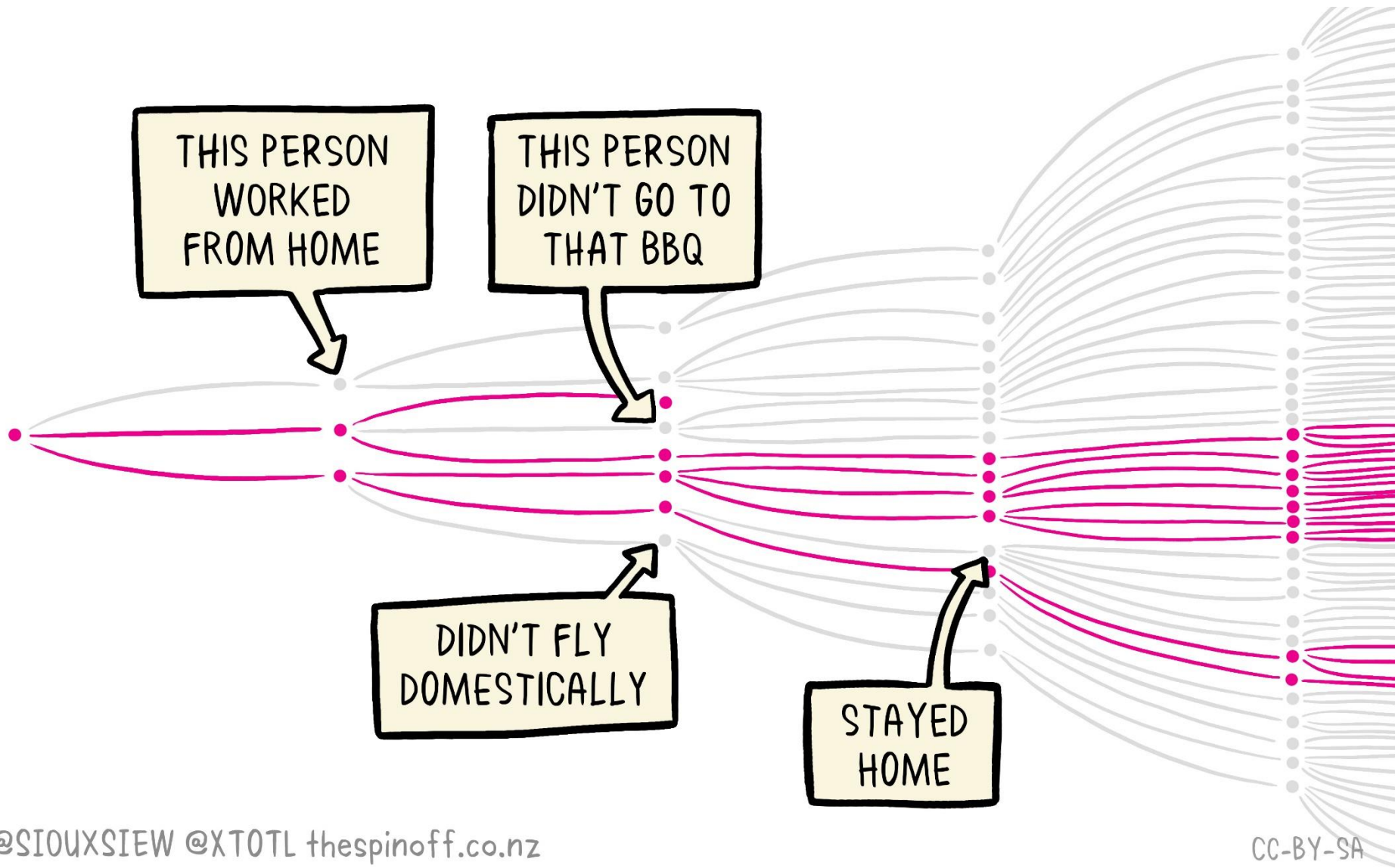
\*ADAPTED FROM @DREWAHARRIS, THOMAS SPLETTSTÖBER (@SPLETTE) AND THE CDC\*  
CC-BY-SA





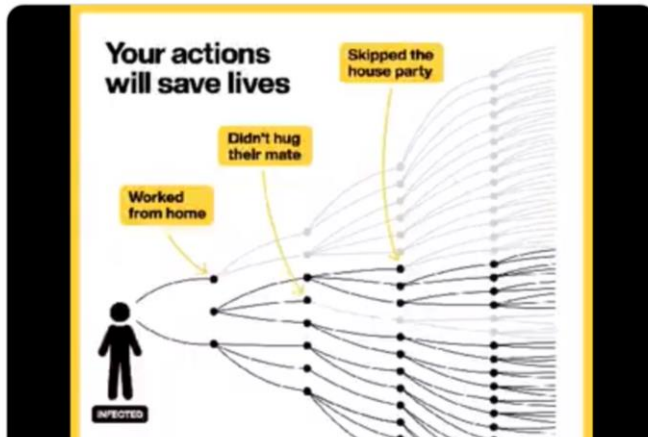
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<p>©2020 GÖRÜŞ KATİTOL, WITHESDRIFT.TU</p>	<p><a href="#">File:Covid-19-Eğriyi-Düzleştirilelim.gif</a> in Turkish</p>
<p>©2020 GÖRÜŞ KATİTOL, WITHESDRIFT.TU</p>	<p><a href="#">File:Covid-19-curves-graphic-social-v3-es.gif</a> in Spanish</p>
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Australian Government Department of Health @health... · Mar 25  
Your actions will save lives. This is why it's important to stay home:



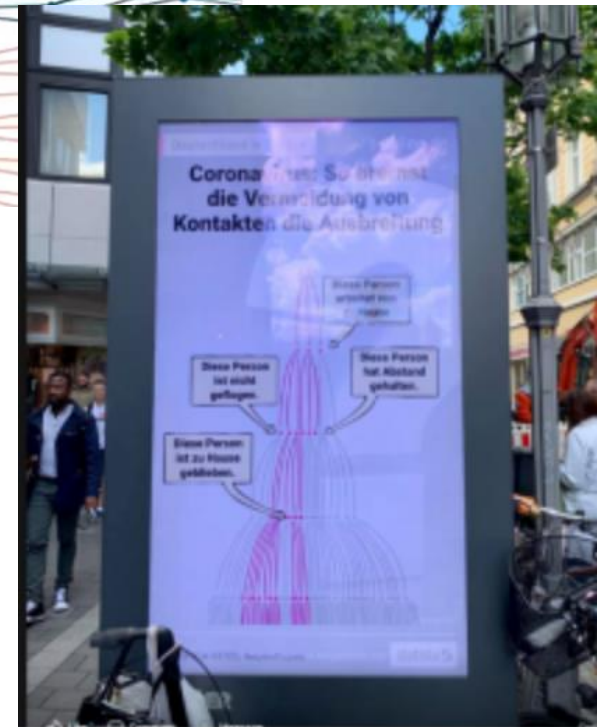
Stay home, stay safe!  
Here's how [#SocialDistancing](#) can help control spread of the [#CoronavirusPandemic](#).  
[#DIU](#) [#CoronavirusOutbreak](#) [#COVID19](#)



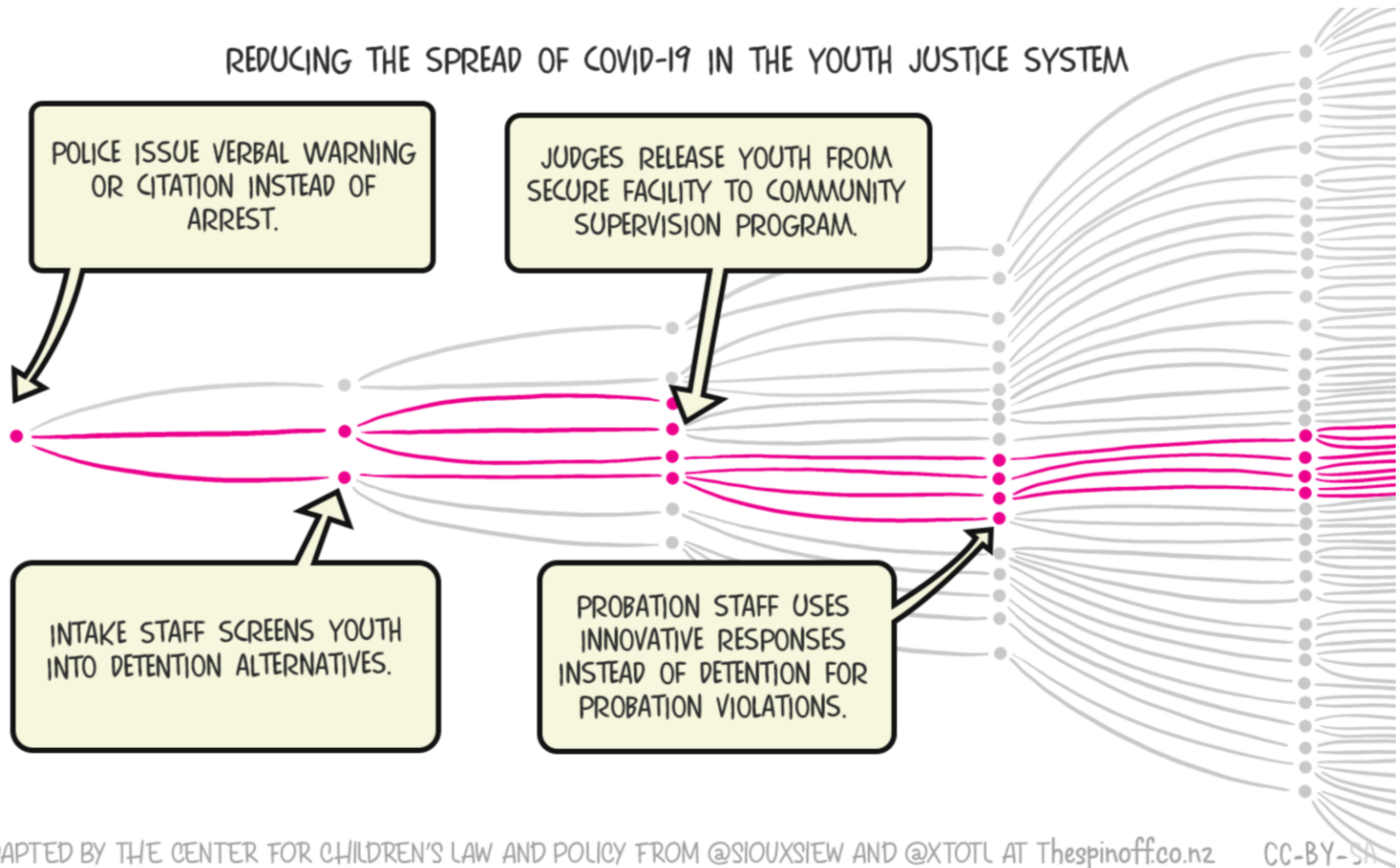
BMG @BMG\_Bund

Dieses Video verdeutlicht, die Wirksamkeit von [#WirBleibenZuhause](#). Durch die Einhaltung der Verhaltensregeln kann jeder und jede einen Beitrag dazu leisten, die Ausbreitung des [#Coronavirus](#) zu verlangsamen.

[Translate Tweet](#)



## REDUCING THE SPREAD OF COVID-19 IN THE YOUTH JUSTICE SYSTEM







APPS



# THE SPINOFF

voyager. | Media Awards 2019

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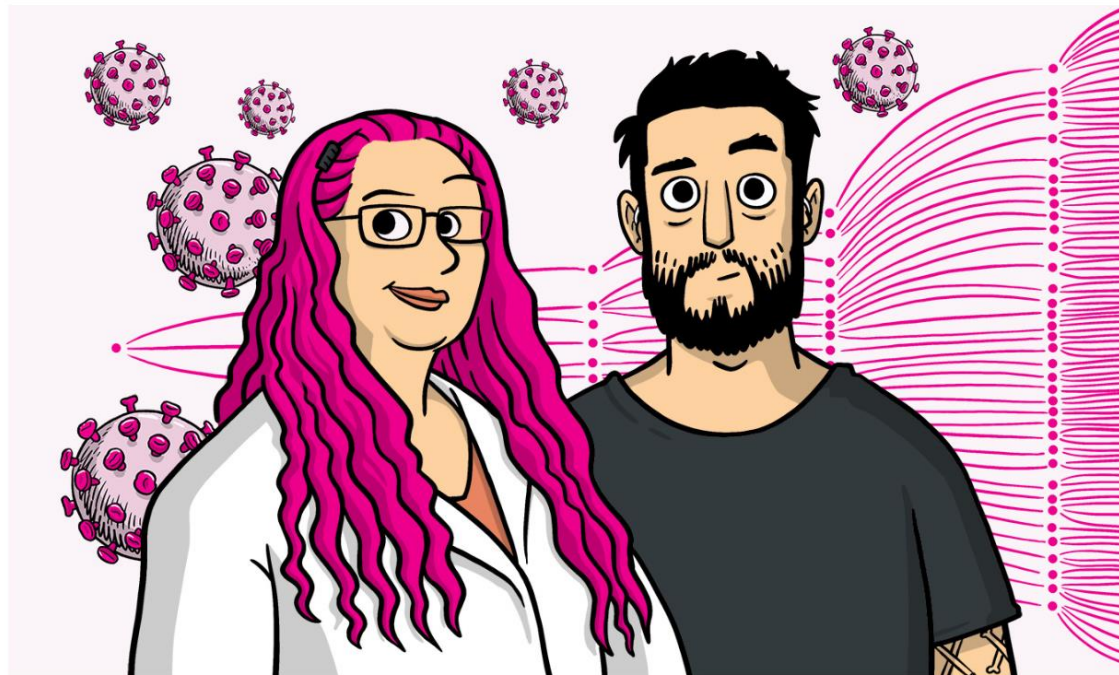
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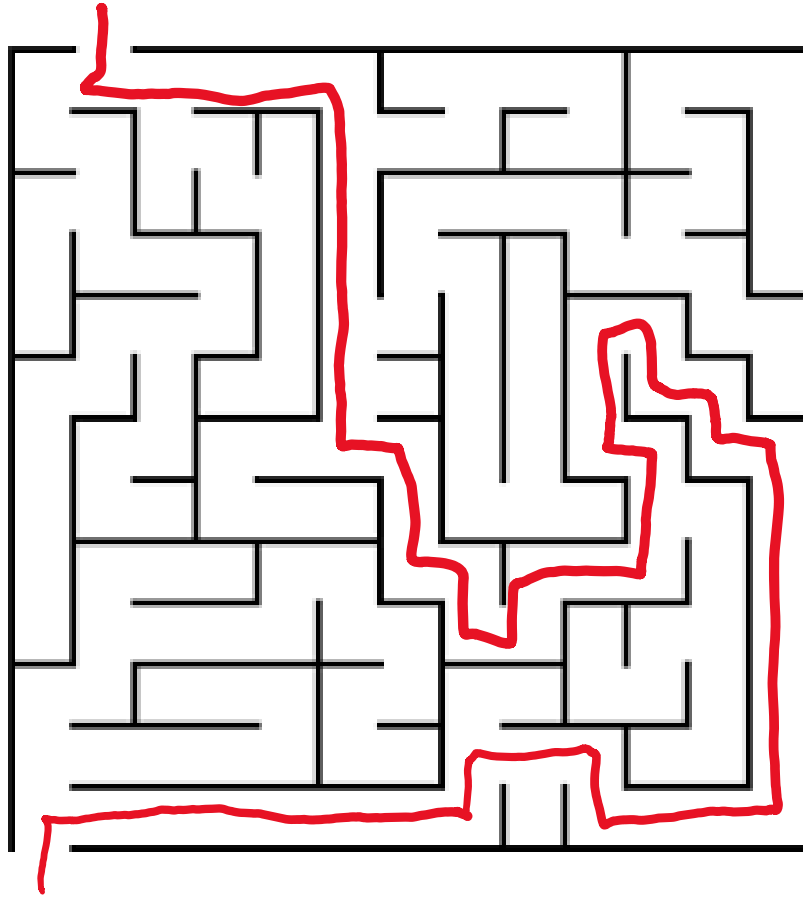
## The bumper Toby Morris & Siouxsie Wiles Covid-19 box set

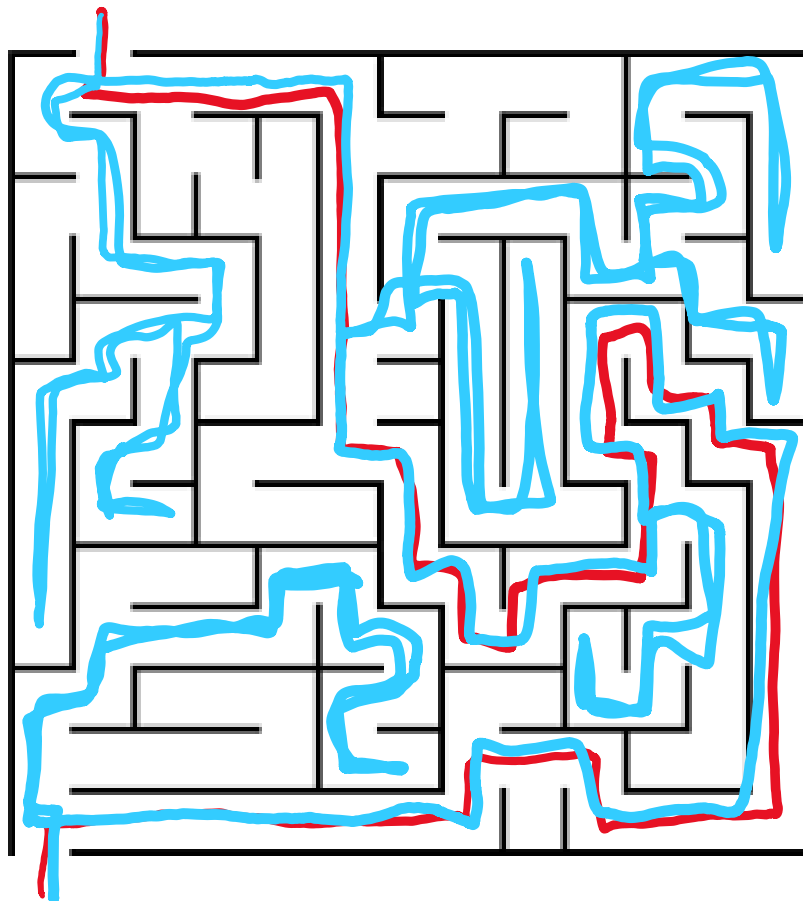


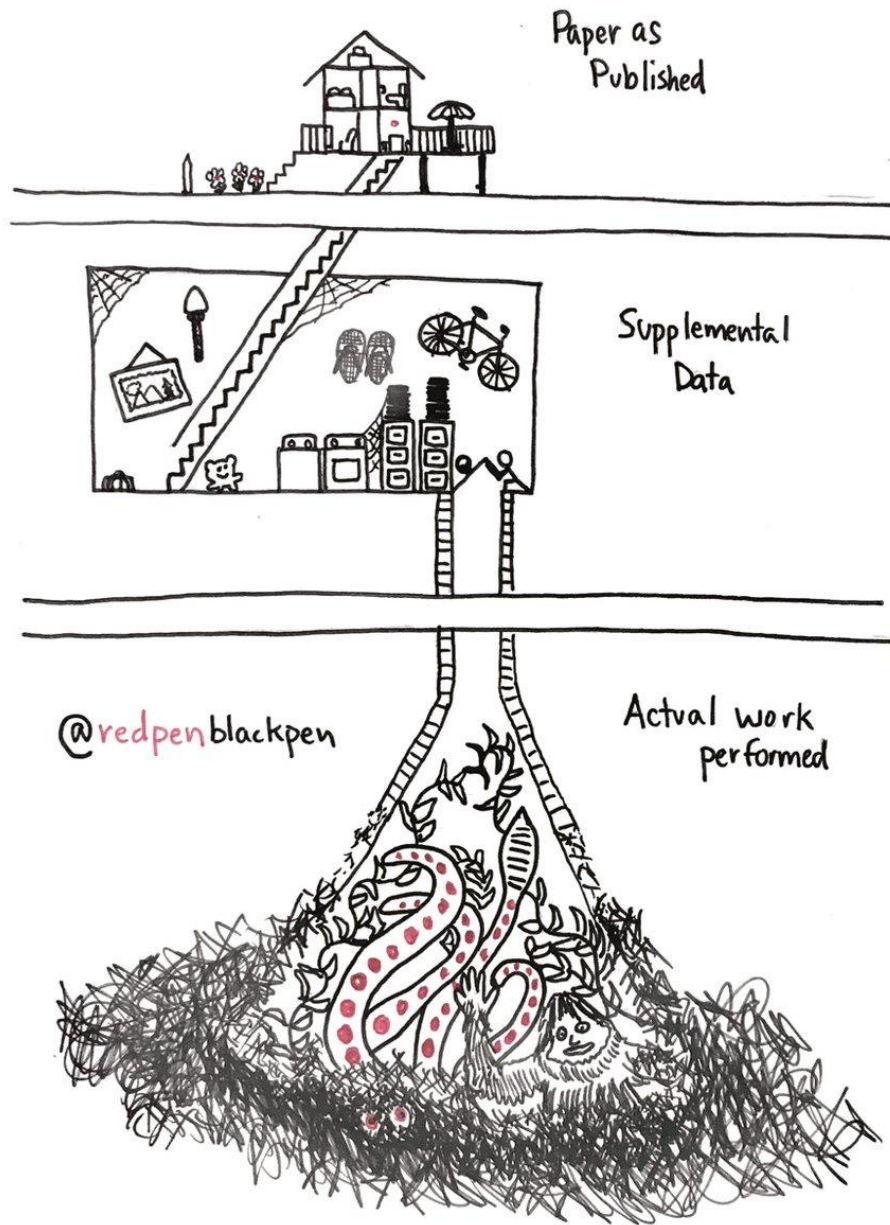
# How we science!



Image credit:  
<https://empoweryourknowledgeandhappytrivia.wordpress.com/2016/06/>









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