Introduction to science denial, misinformation, the dangers it poses, and what to do about it

EGU24 – US6 – Wednesday April 17, 2024 Bärbel Winkler

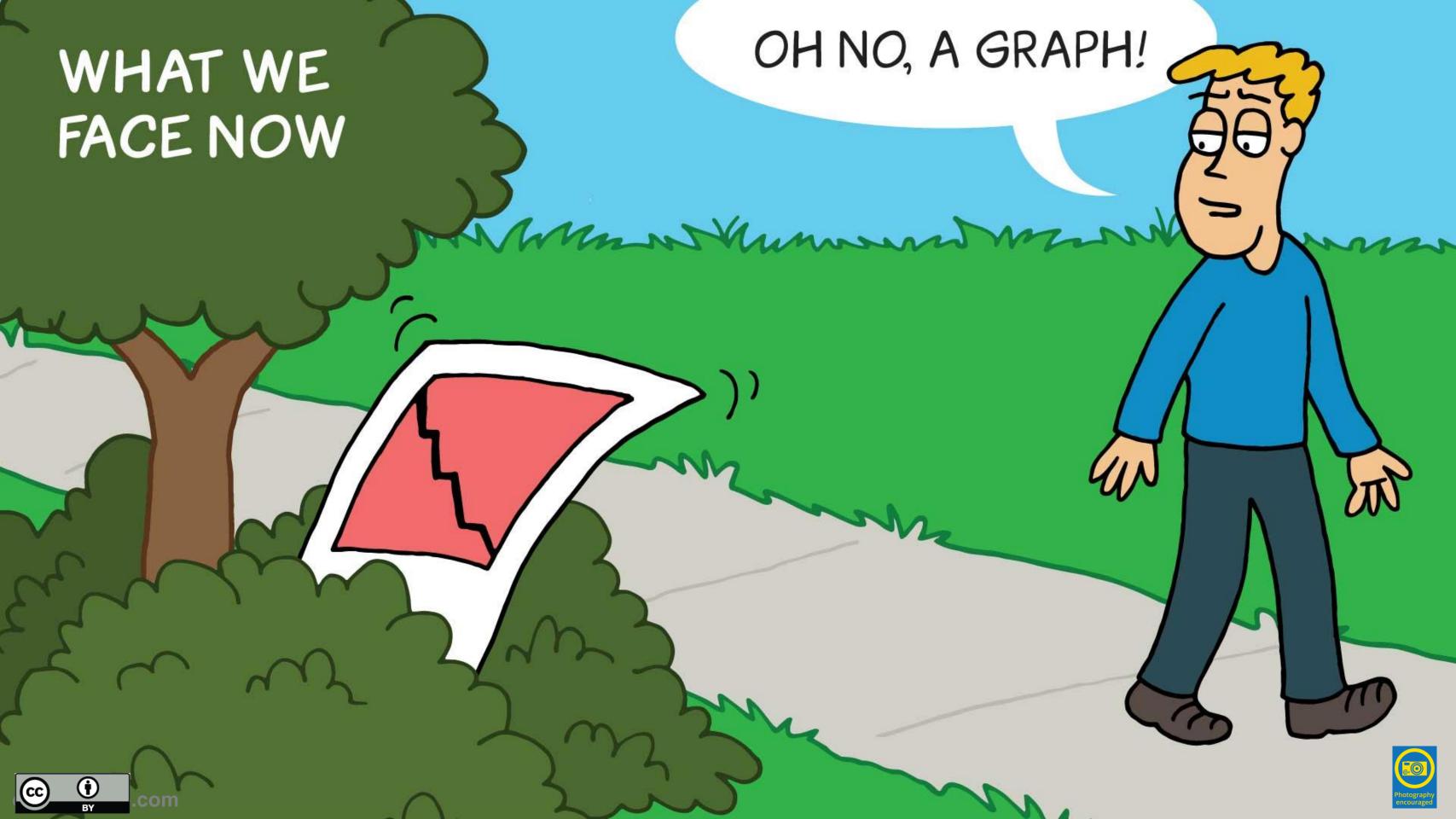




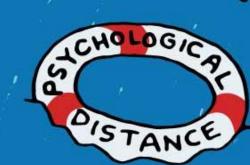
How do people think about topics like climate change?











POLARIZATION

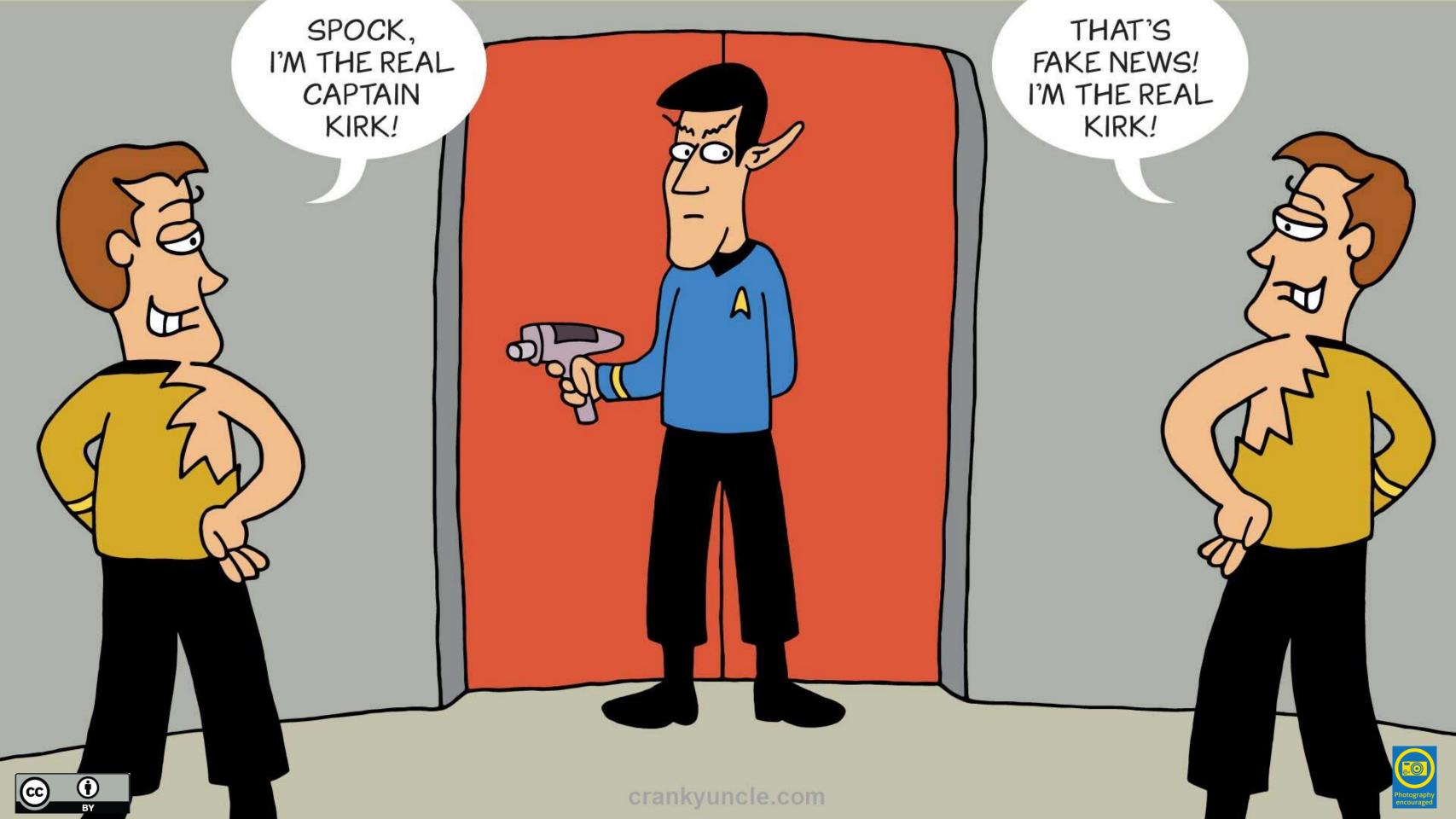






Why is mis- and disinformation a problem and can be dangerous?





The antidote to fake news...

... is a little bit of fake news.









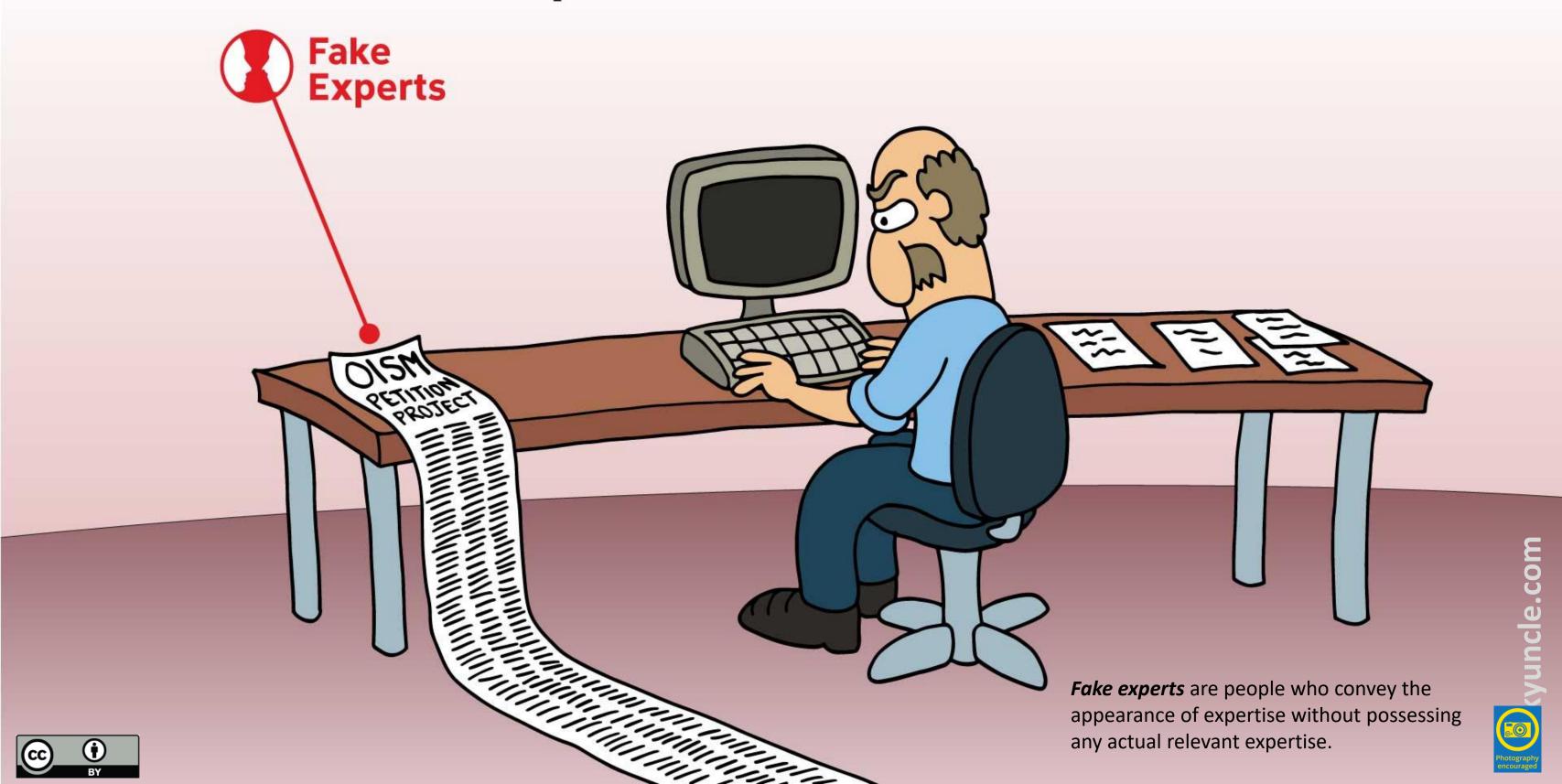
INOCULATION THEORY "A VACCINE FOR THE BRAIN"

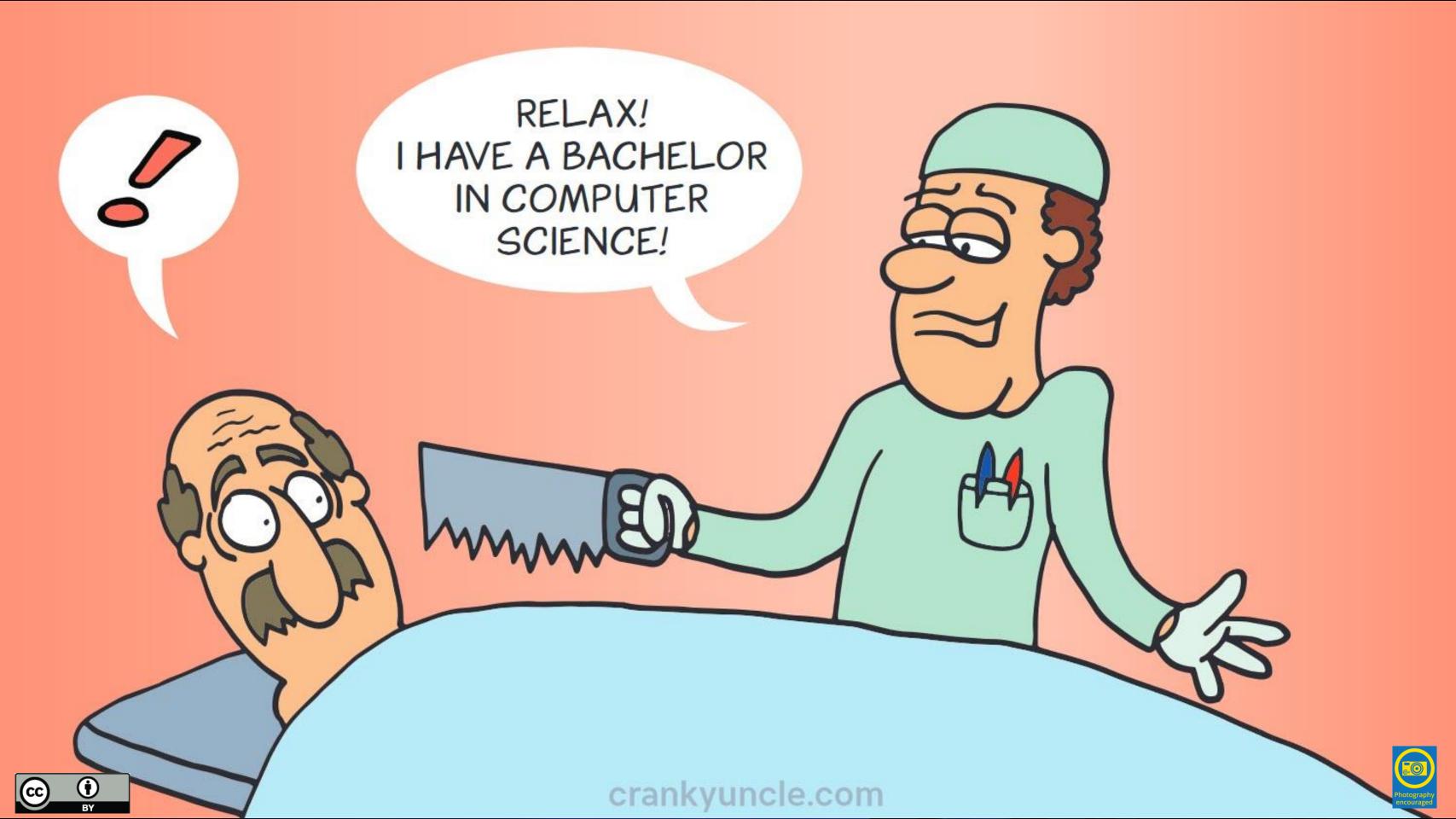












Global Warming Petition Project

31,487 American scientists have signed this petition, including 9,029 with PhDs

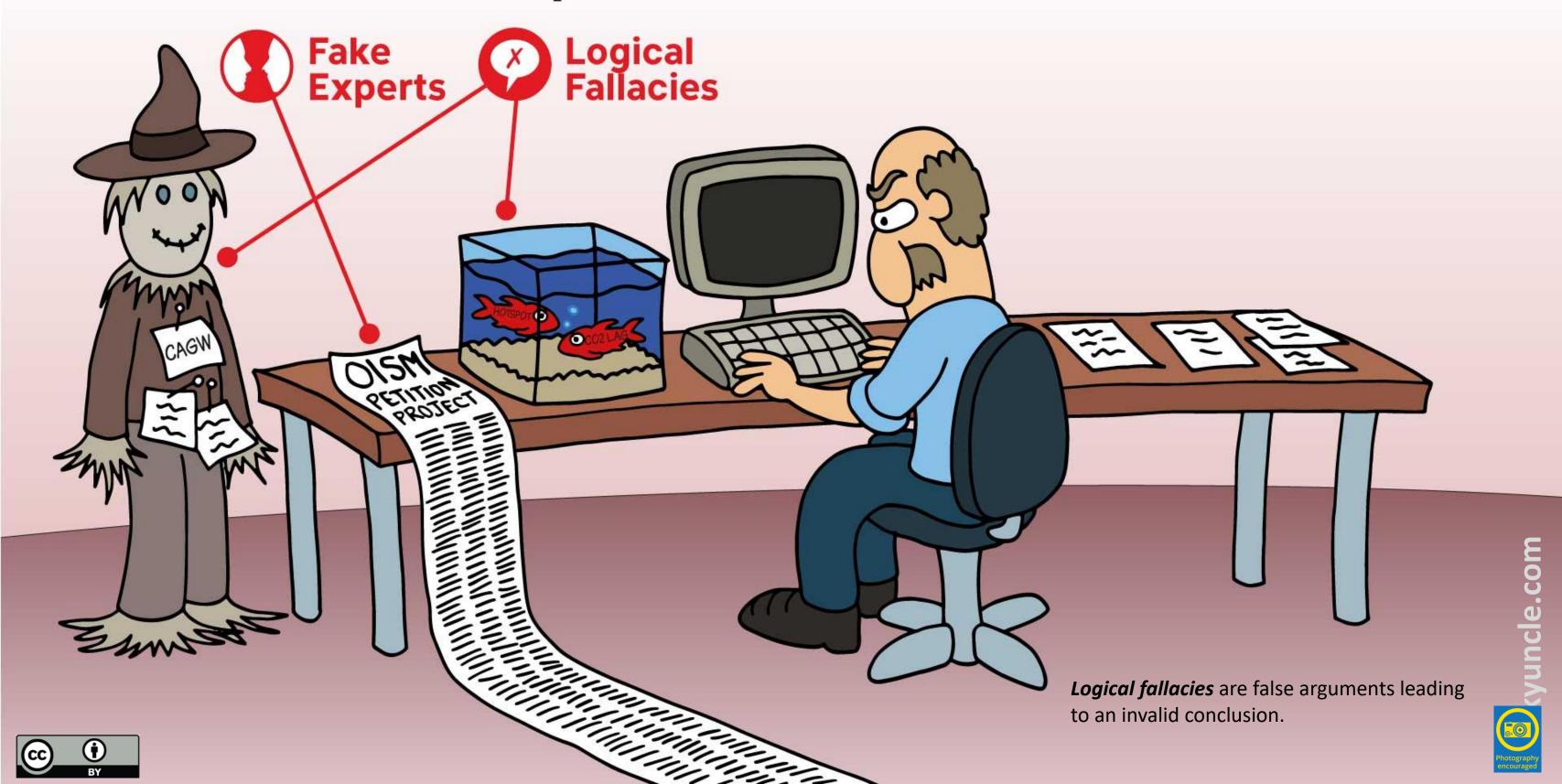
Petition

We urge the United States government to reject the global warming agreement that was written in Kyoto, Japan in December, 1997, and any other similar proposals. The proposed limits on greenhouse gases would harm the environment, hinder the advance of science and technology, and damage the health and welfare of mankind.

There is no convincing scientific evidence that human release of carbon dioxide, methane, or other greenhouse gases is causing or will, in the foreseeable future, cause catastrophic heating of the Earth's atmosphere and disruption of the Earth's climate. Moreover, there is substantial scientific evidence that increases in atmospheric carbon dioxide produce many beneficial effects upon the natural pland and animal environments of the Earth.







"I have blue eyes, so I'm an expert in quantum physics." One of the reasons why the climate is changing...



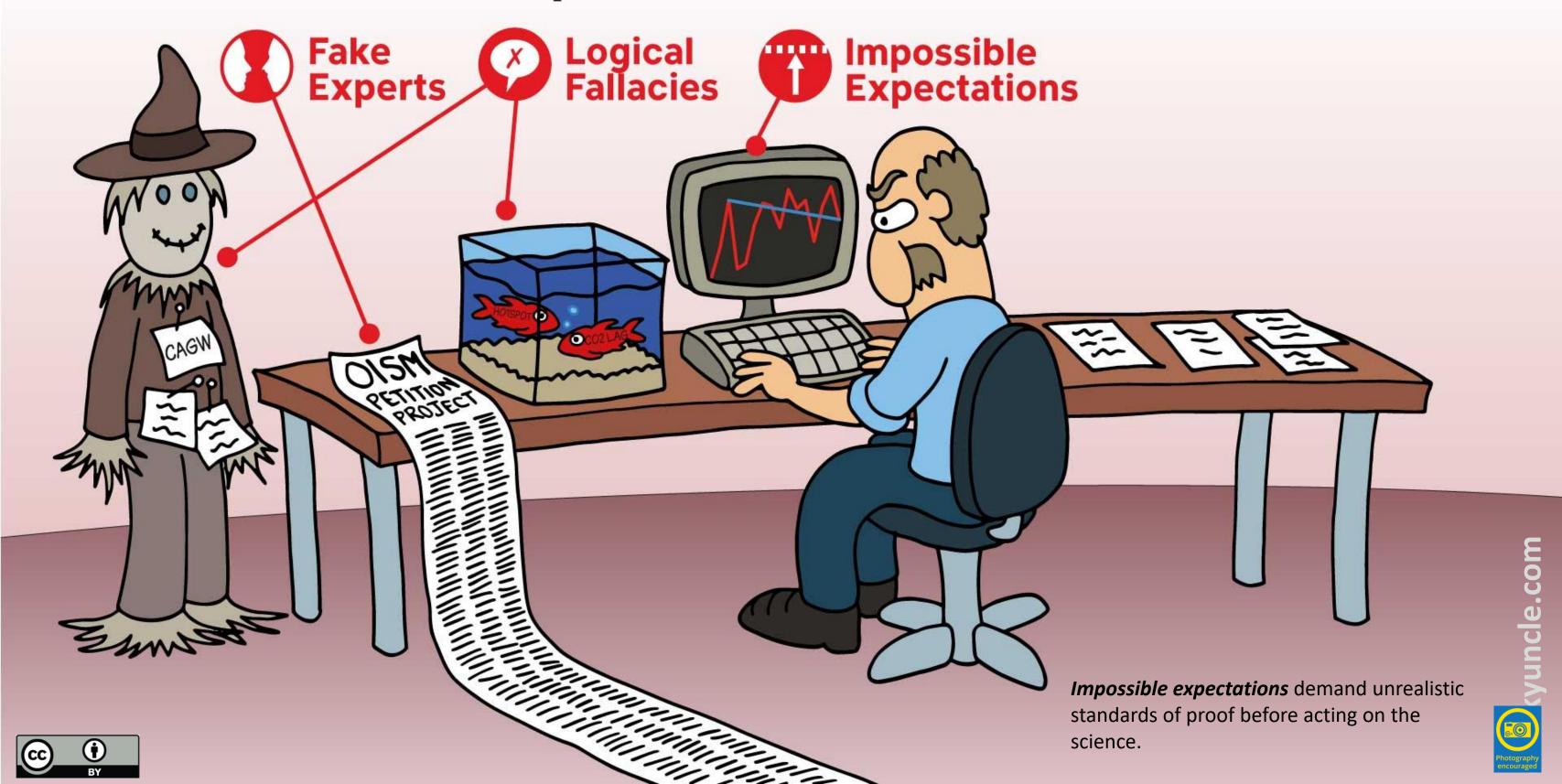
This person died of natural causes...



...because people have always died of natural causes.







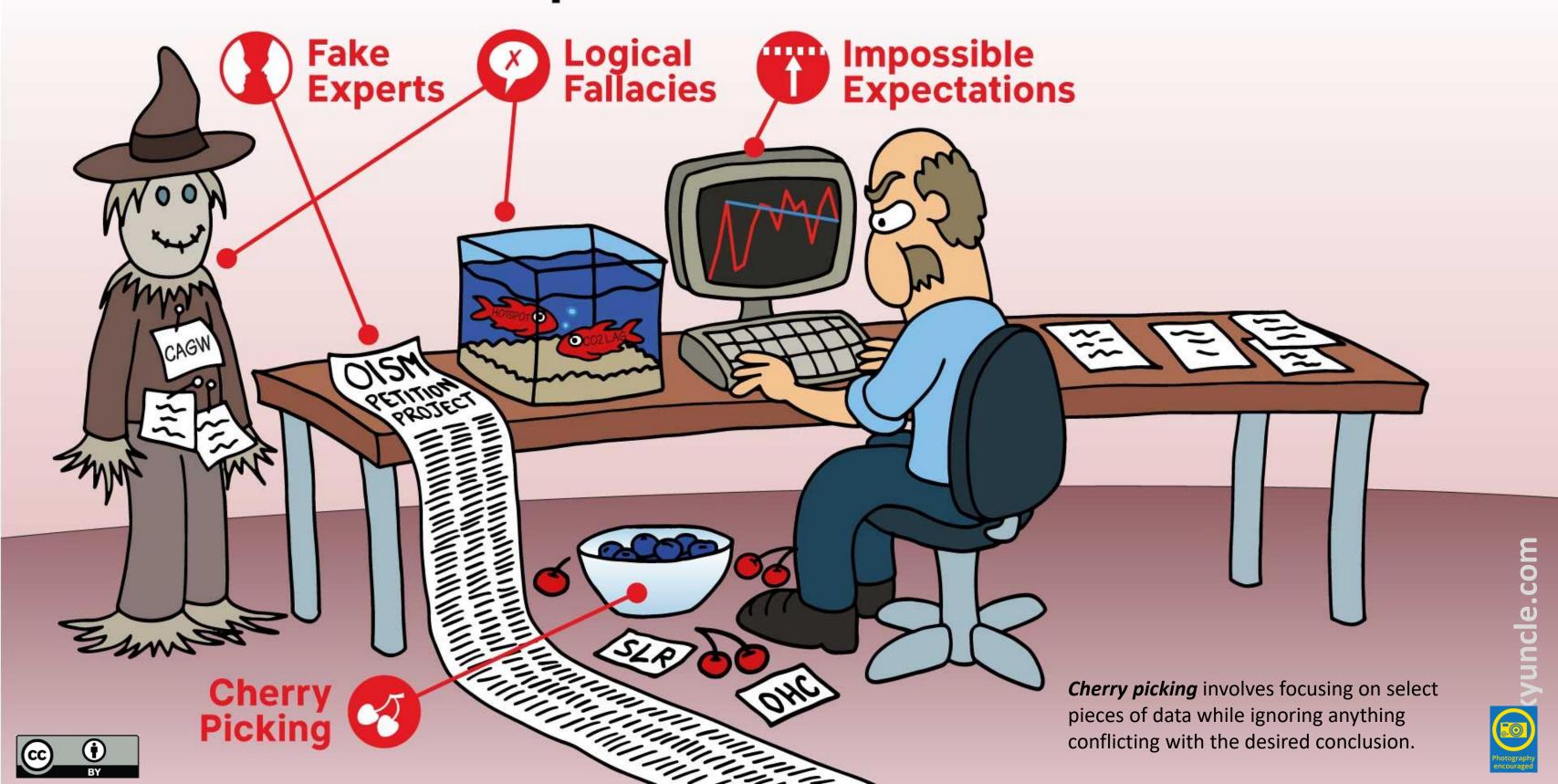


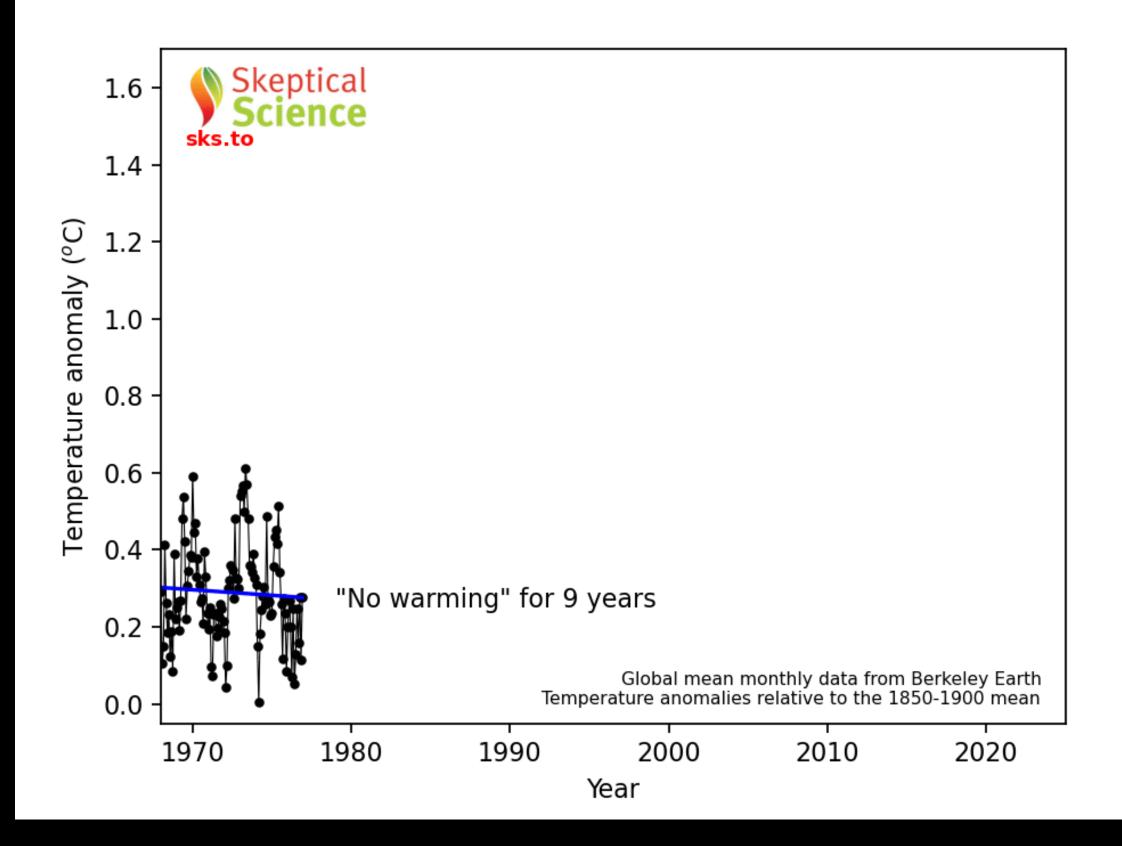
YOU'LL HIT THE GROUND IN 12 TO 15 SECONDS.



GET BACK TO ME WHEN YOU HAVE MORE CERTAINTY!

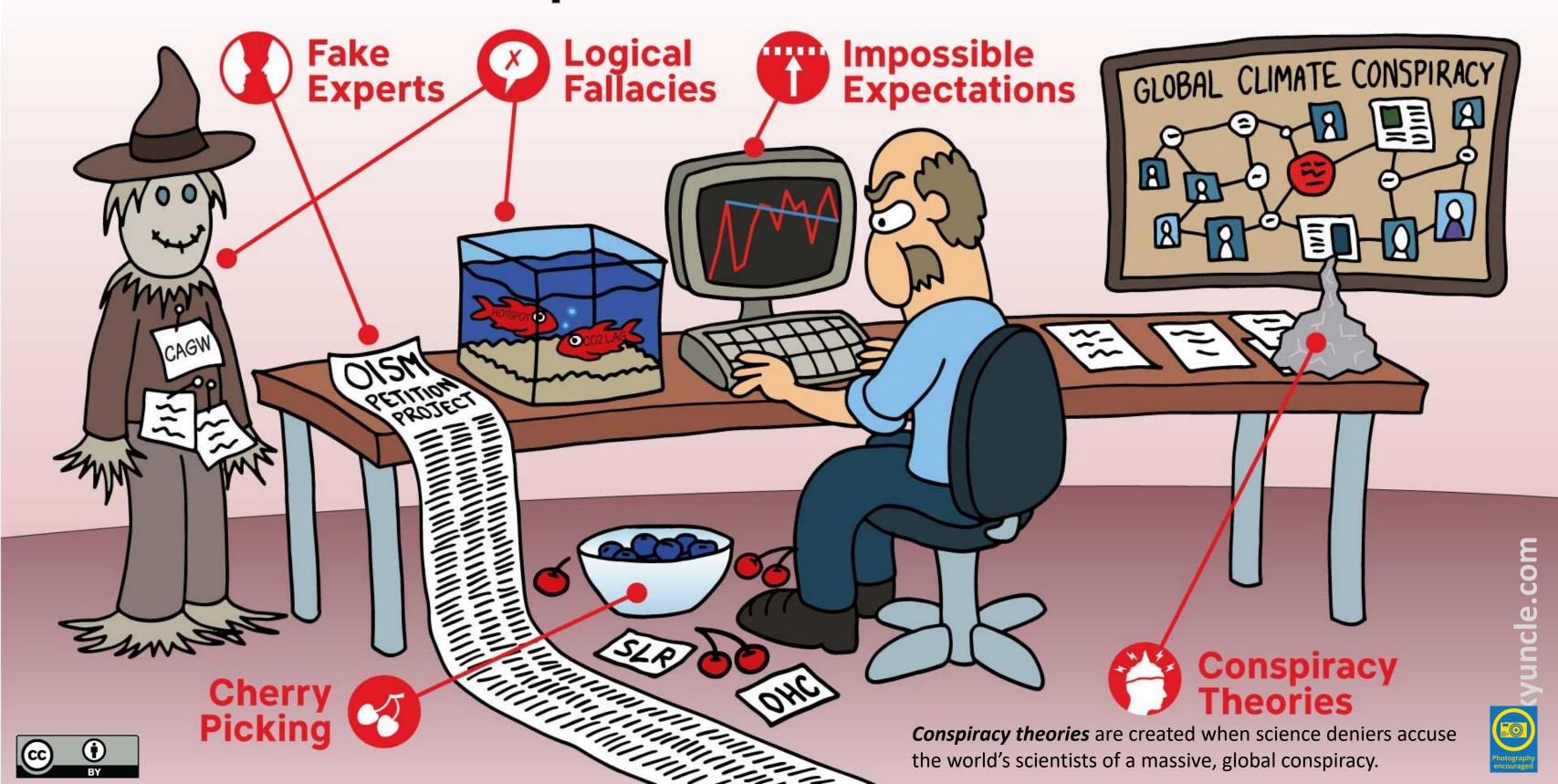














The concept of global warming was created by and for the Chinese in order to make U.S. manufacturing non-competitive.

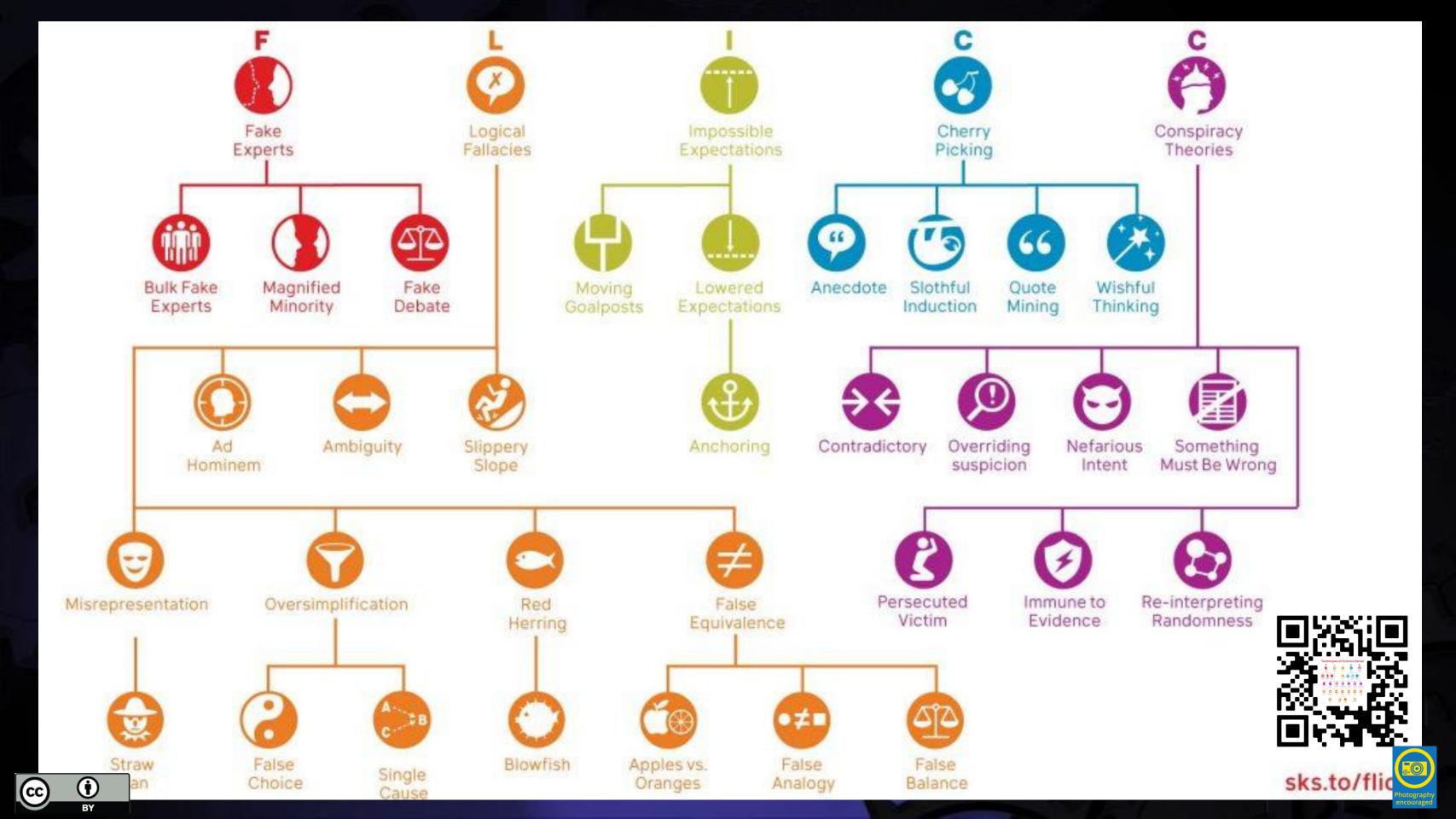
2:15 PM · Nov 6, 2012 · Twitter Web Client

96.7K Retweets 64.7K Likes









A big Challenge for Inoculation

Critial Thinking is hard and requires a lot of effort to not just memorize the techniques of science denial but to also be able to quickly recognize them "in the wild".





Cranky Uncle to the rescue!









Understand cranky uncles by becoming a cranky uncle





https://sks.to/crankyiphone



https://sks.to/crankyandroid



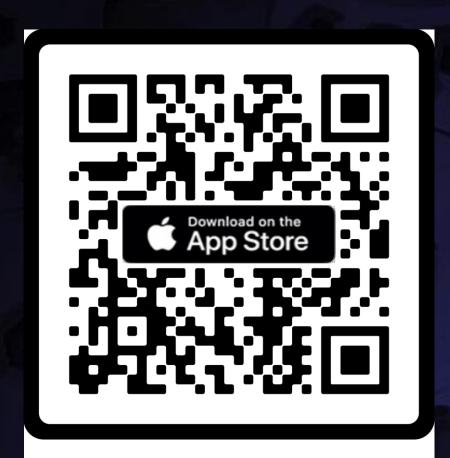
https://sks.to/crankybrowser

Learn techniques of science denial

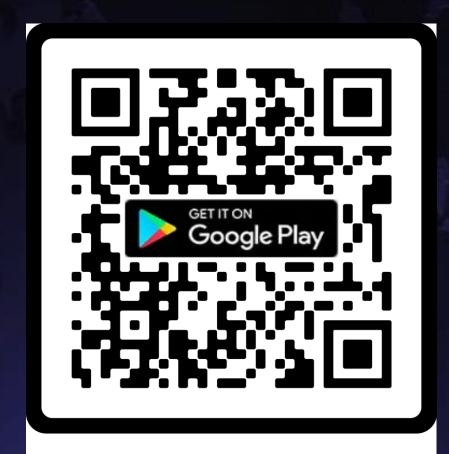




Cranky Uncle - a multi-lingual critical thinking game to build resilience against climate misinformation Game is available for iPhone, Android and Browser



sks.to/crankyiphone



sks.to/crankyandroid



sks.to/crankybrowser

Thanks to John Cook

for his slides as well as the Cranky Uncle cartoons used in this presentation!

More information is available at https://crankyuncle.com





Thank you!

Bärbel Winkler

Email - baerbelw@skepticalscience.com

Web - https://skepticalscience.com

More about me - https://sks.to/BaerbelW





