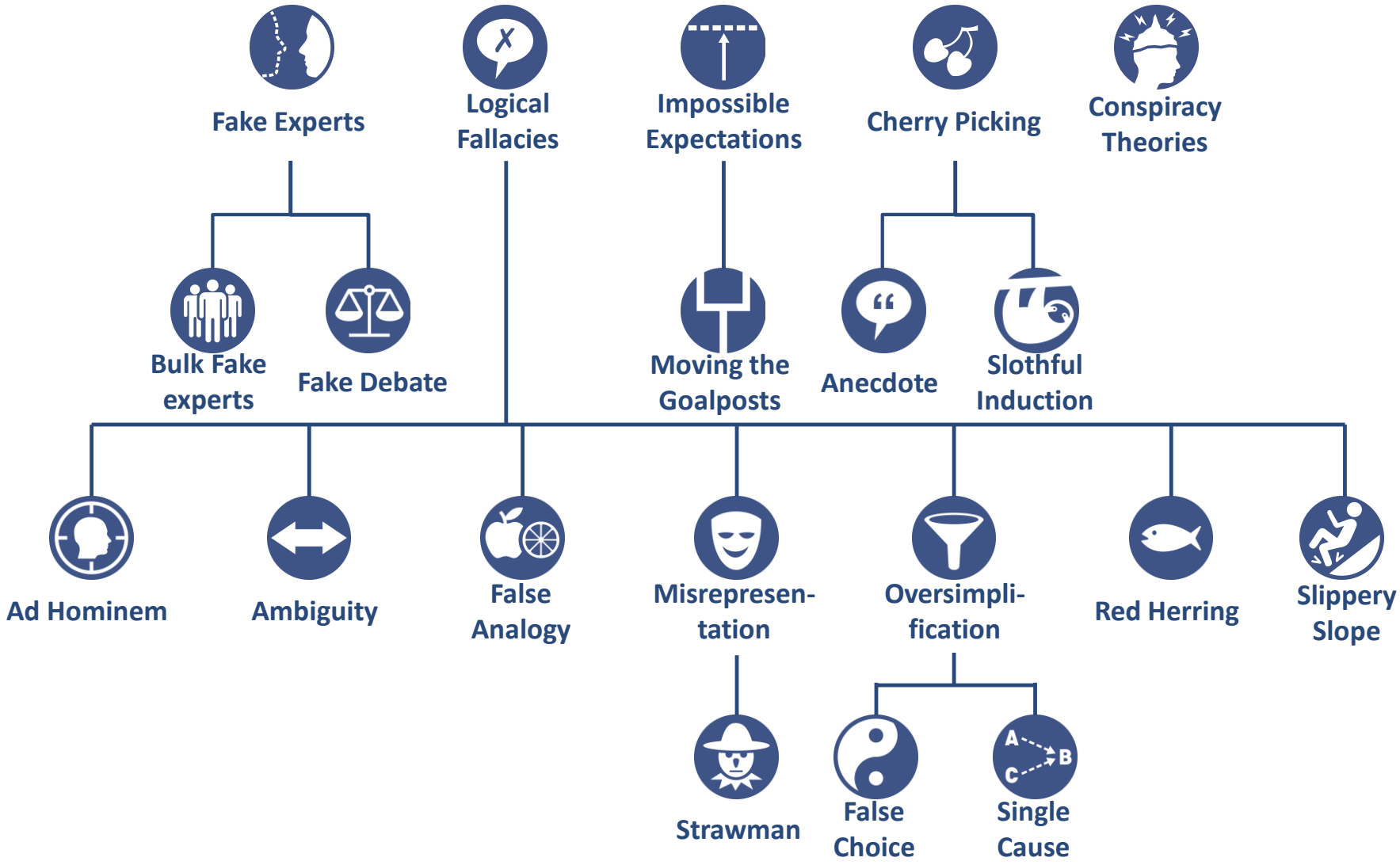
Material for FLICC-Quiz

Please mention Skeptical Science and Cranky Uncle when making use of this material!

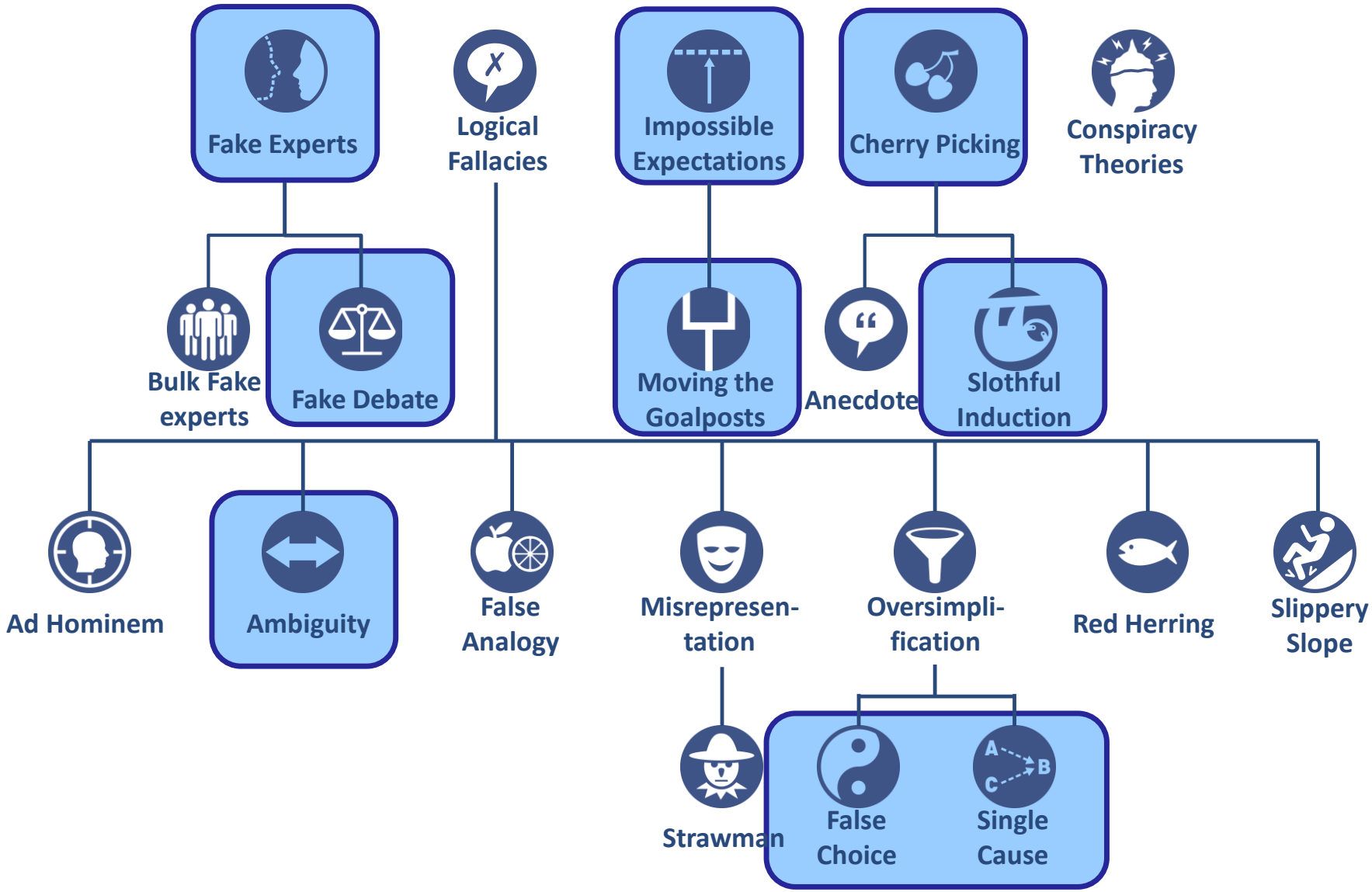
https://skepticalscience.com

https://crankyuncle.com

Taxonomy of Logical Fallacies



Taxonomy of Logical Fallacies used in the Cartoons



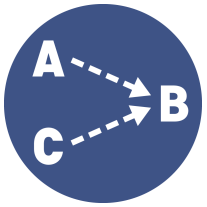
Definitions of Logical Fallacies used in the Quiz

Fake Experts: Presenting an unqualified person or institution as a source of credible information.

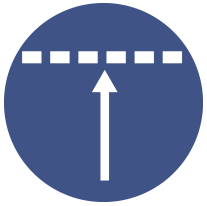
Fake Debate: Presenting science and pseudoscience in an adversarial format to give the false impression of an ongoing scientific debate.

Ambiguity: Using ambiguous language in order to lead to a misleading conclusion.

False Choice: Presenting two options as the only possibilities, when other possibilities exist.



Single Cause: Assuming a single cause or reason when there might be multiple causes or reasons.



Impossible Expectations: Demanding unrealistic standards of certainty before acting on the science.

Moving the Goalposts: Demanding higher levels of evidence after receiving requested levels of evidence.

Cherry Picking: Carefully selecting data that appear to confirm one position while ignoring other data that contradicts that position.

Slothful Induction: Ignoring relevant evidence when coming to a conclusion. Similar to cherry picking but with an emphasis on neglecting inconvenient information rather than highlighting convenient information.

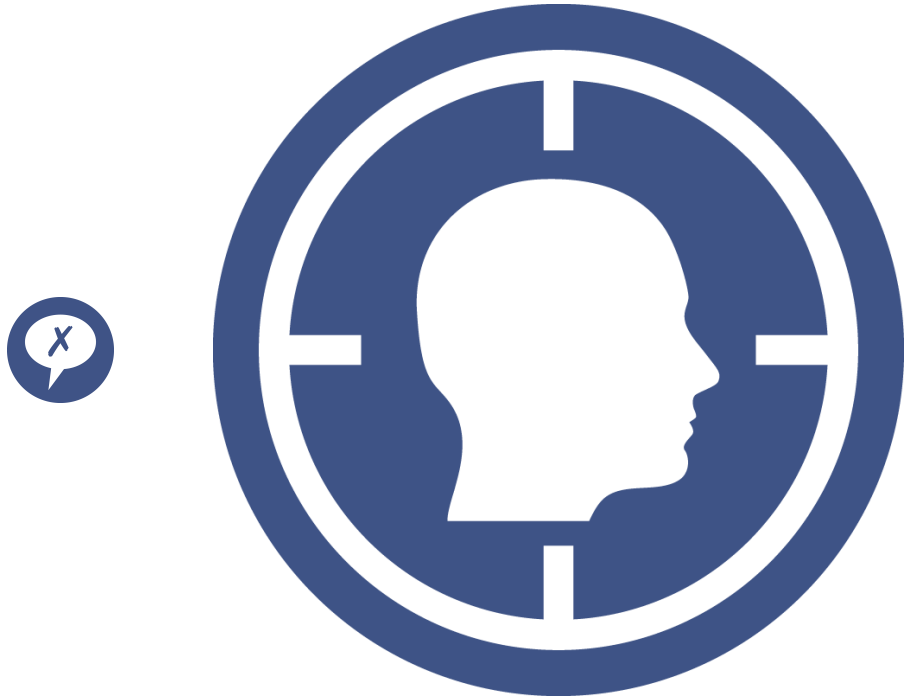
Set of fallacy icons

Fake Experts

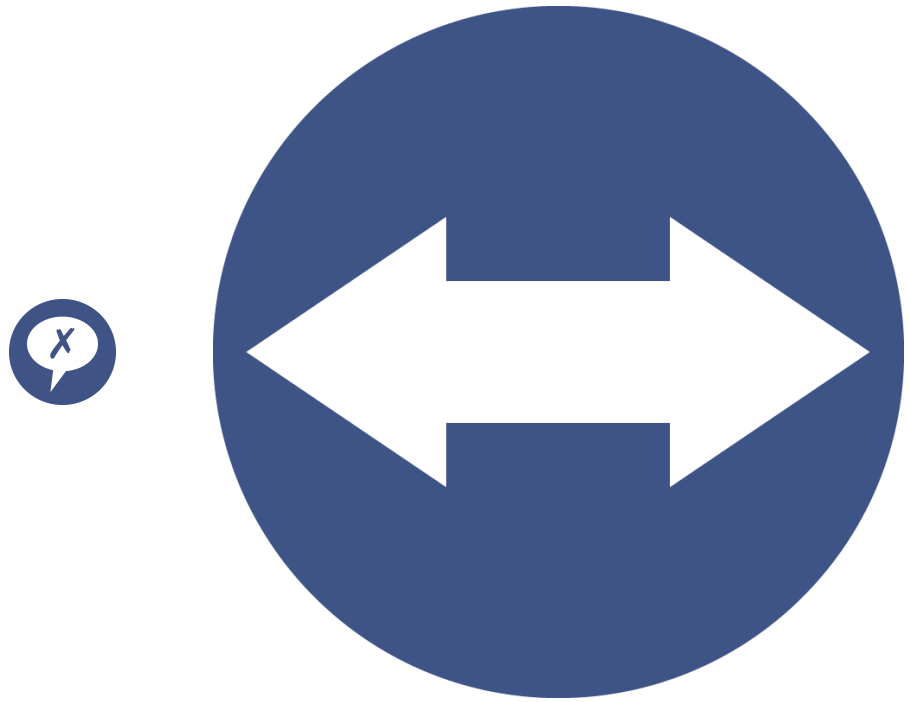
Bulk Fake Experts

Fake Debate

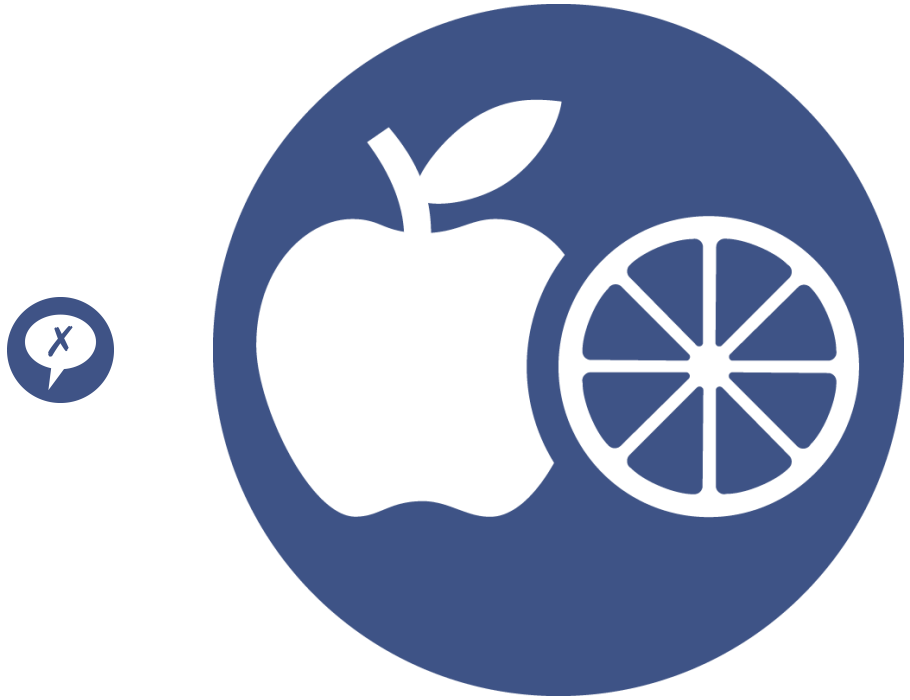
Logical Fallacy



Ad Hominem



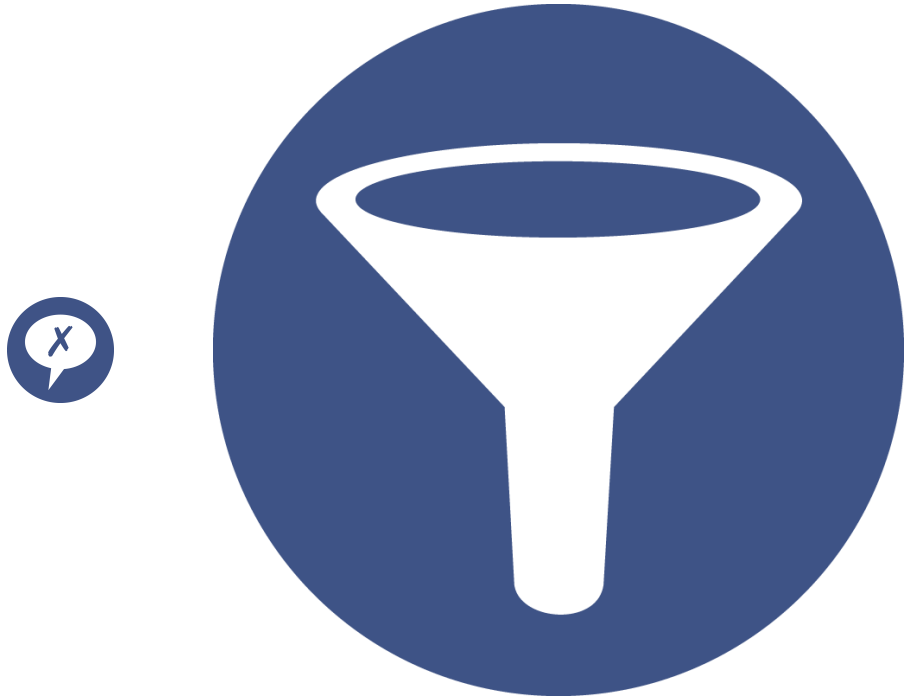
Ambiguity



False Analogy

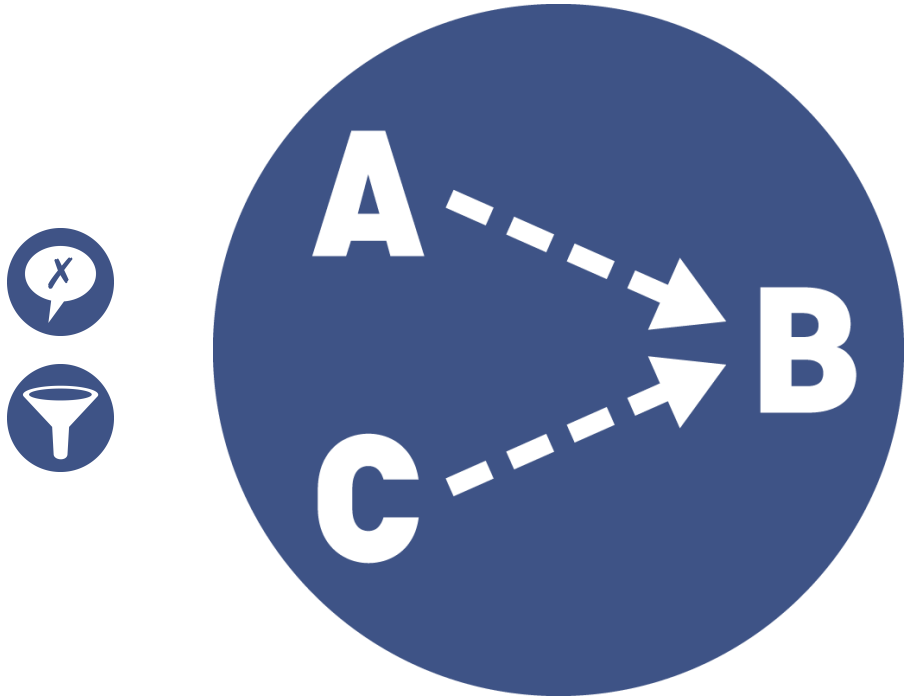
Misrepre-sentation

Strawman

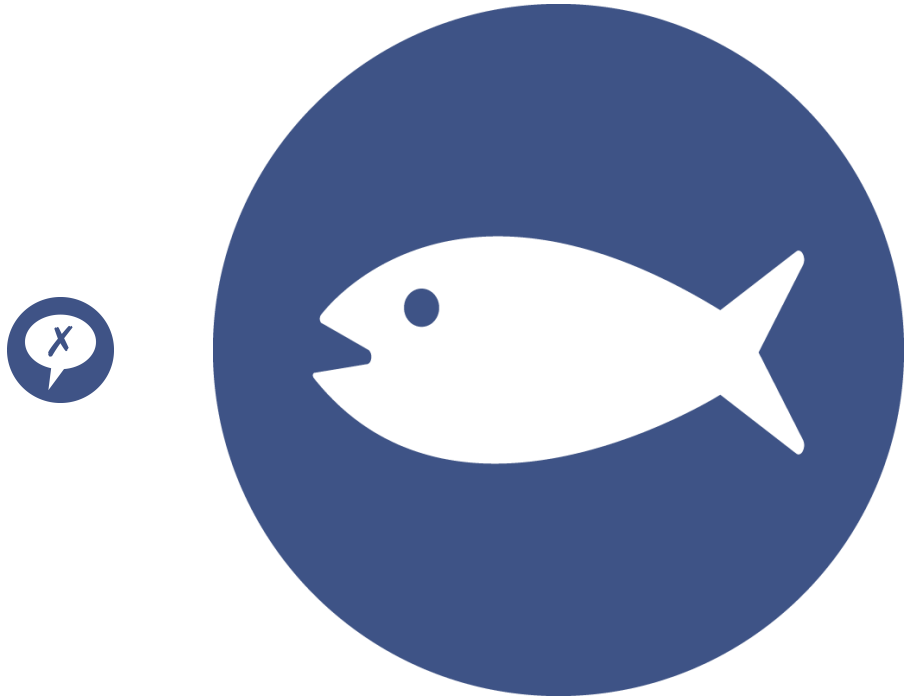


Oversimpli-fication

False Choice

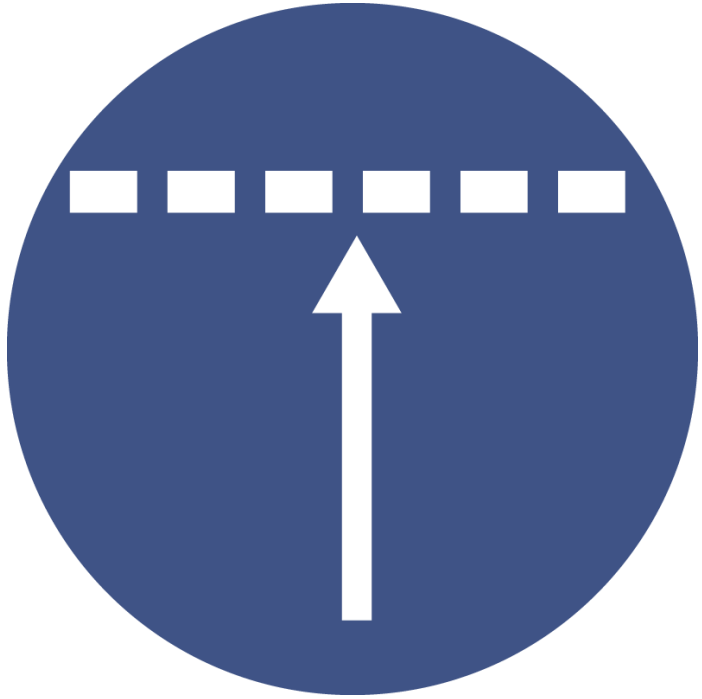


Single Cause

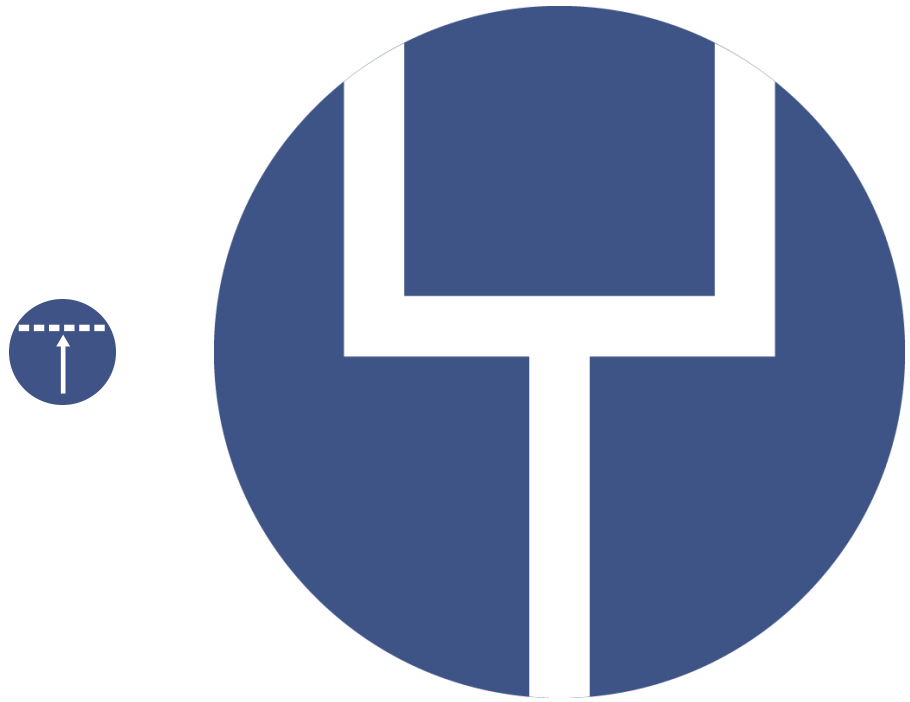


Red Herring

Slippery Slope



Impossible Expectation



Moving the Goalposts

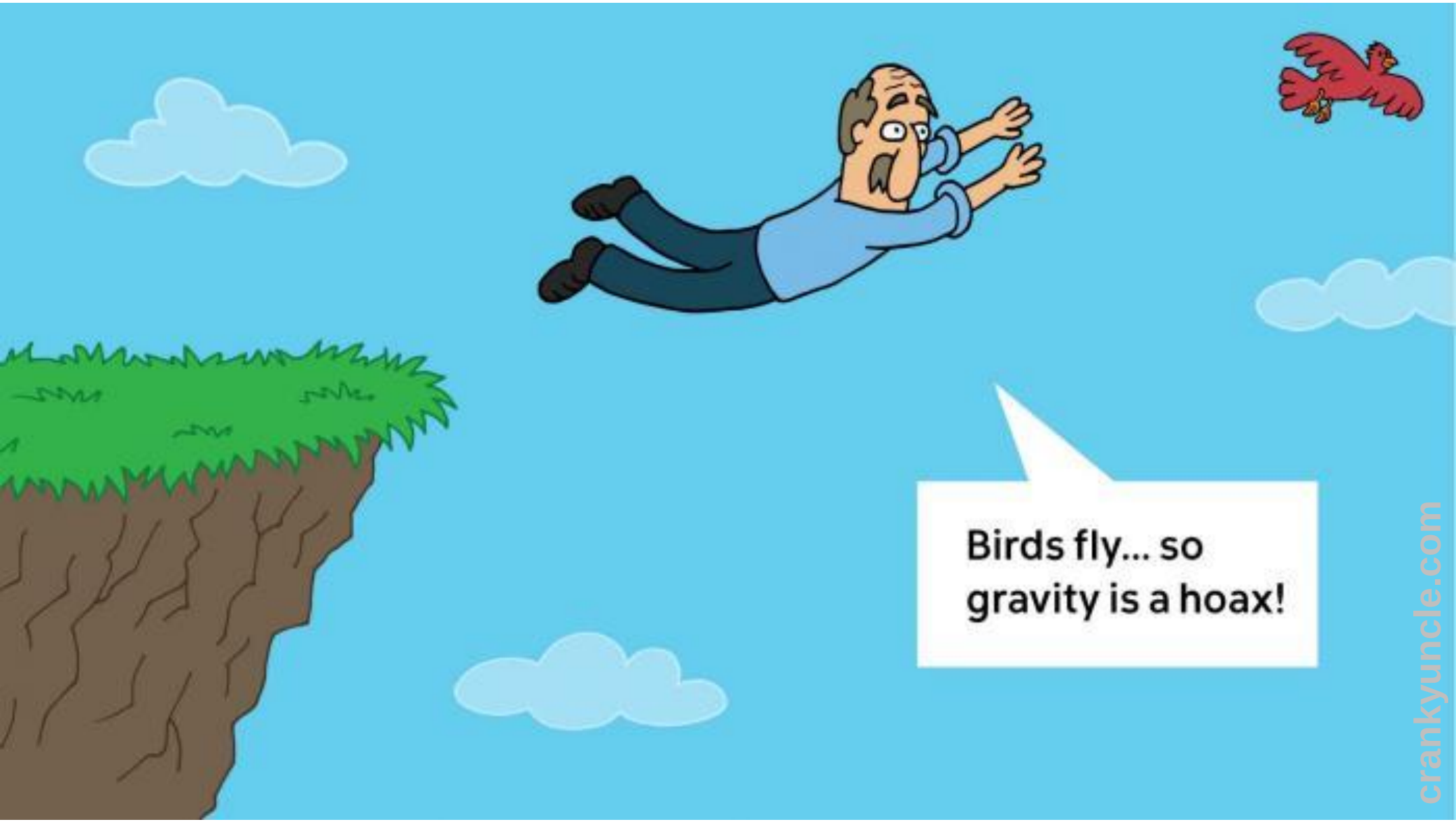
Cherry-picking

Anecdote

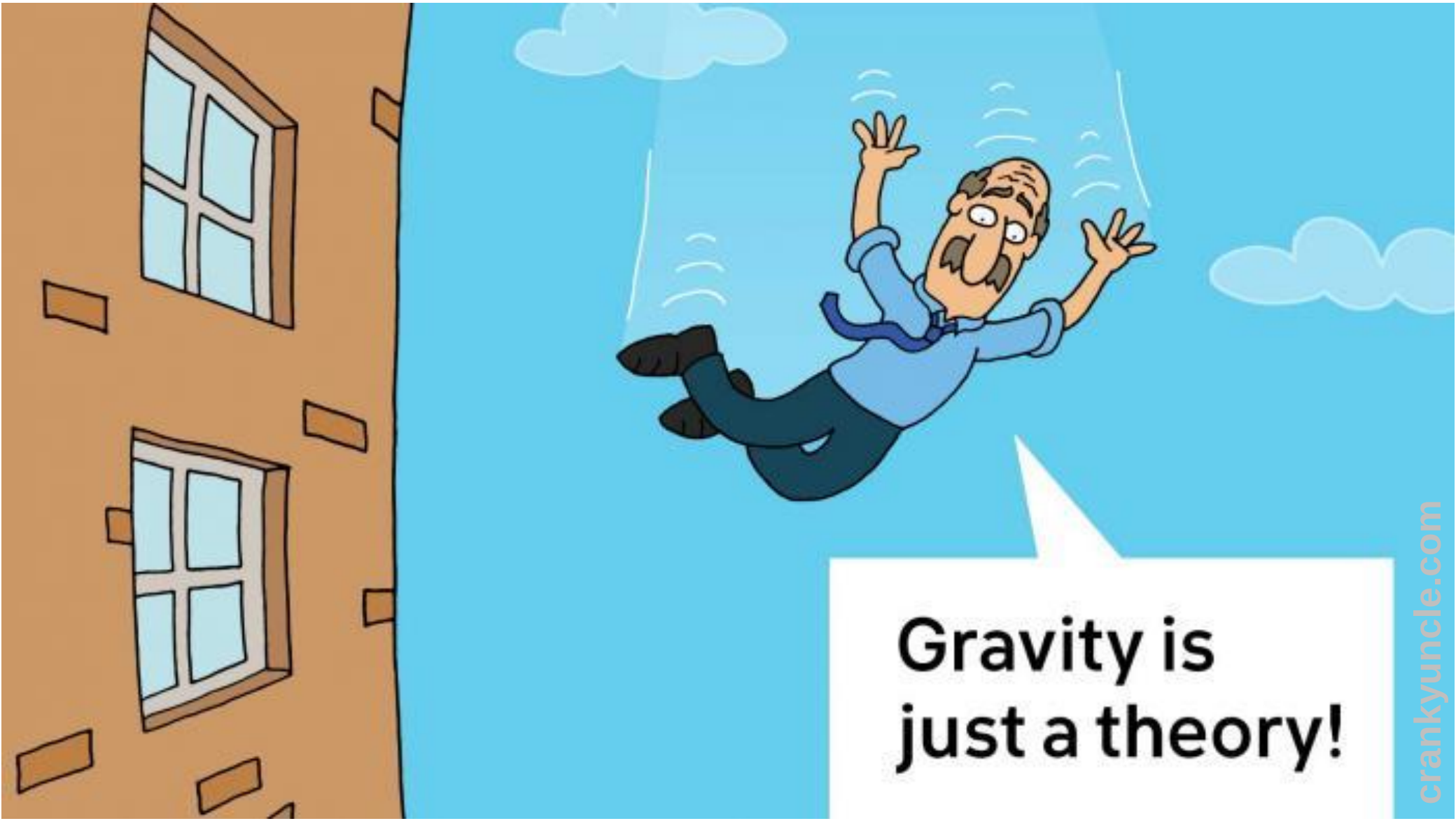
Slothful Induction

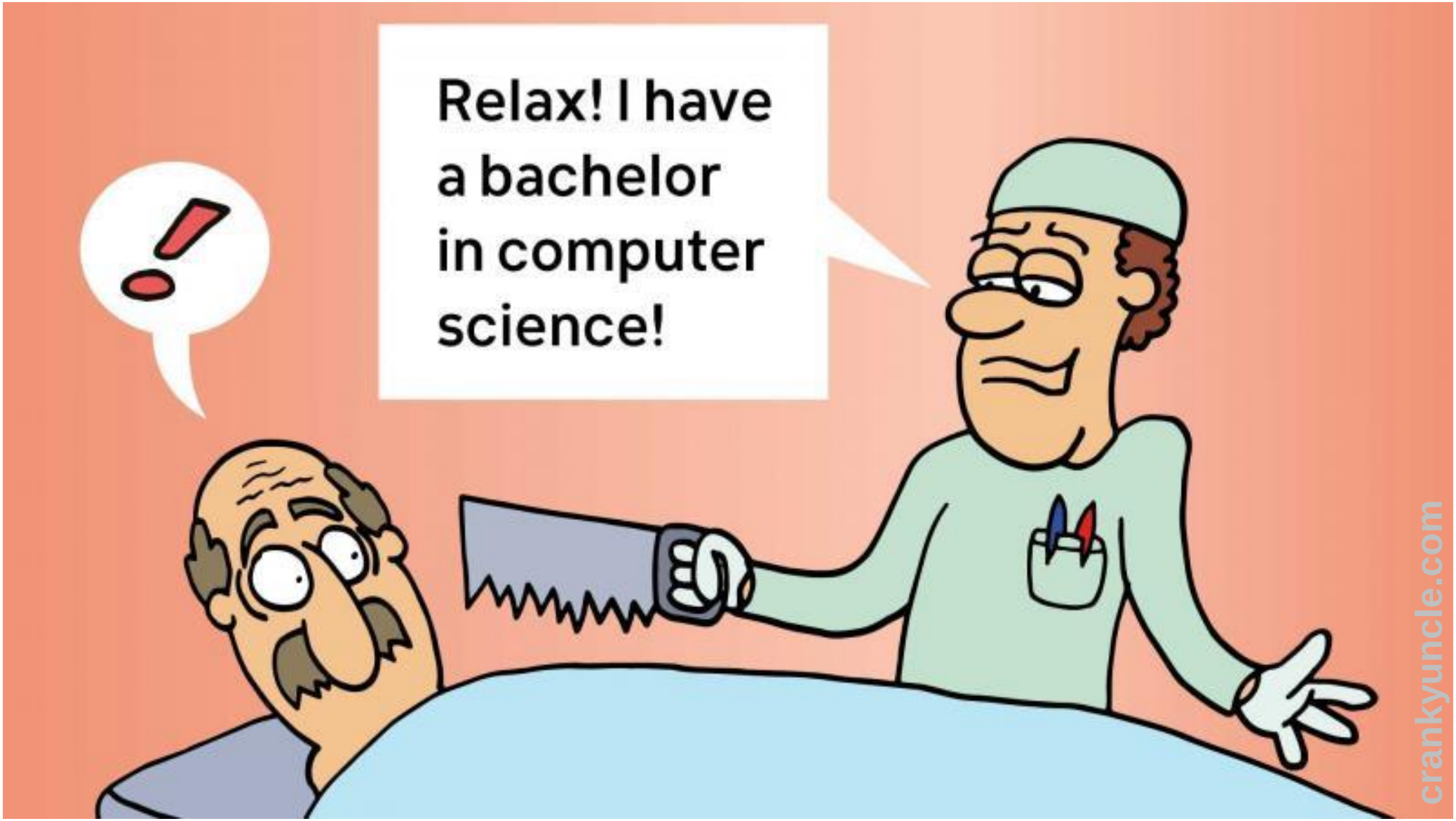
Conspiracy Theories

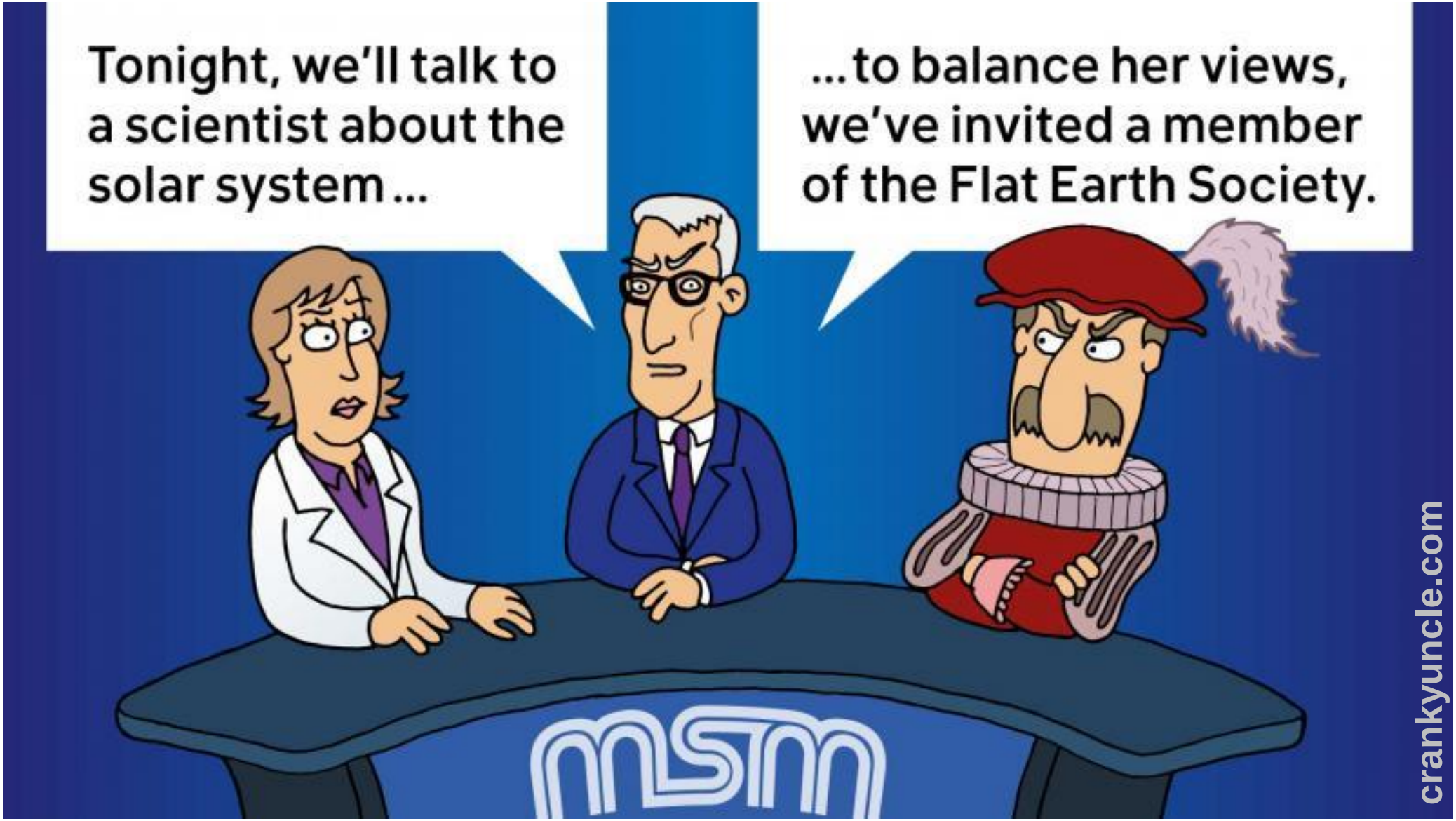
Set of cartoons



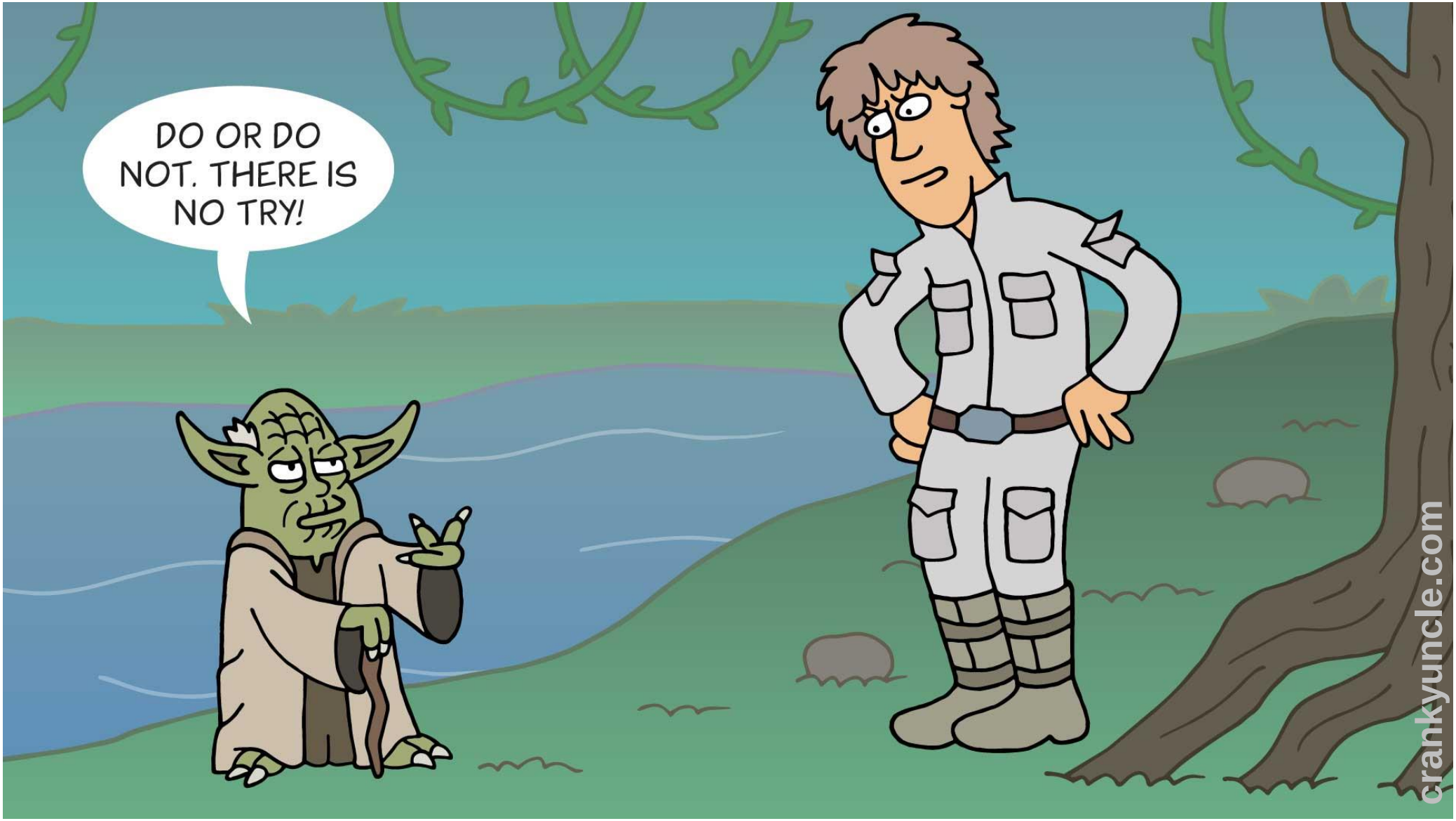
crankyuncle.com

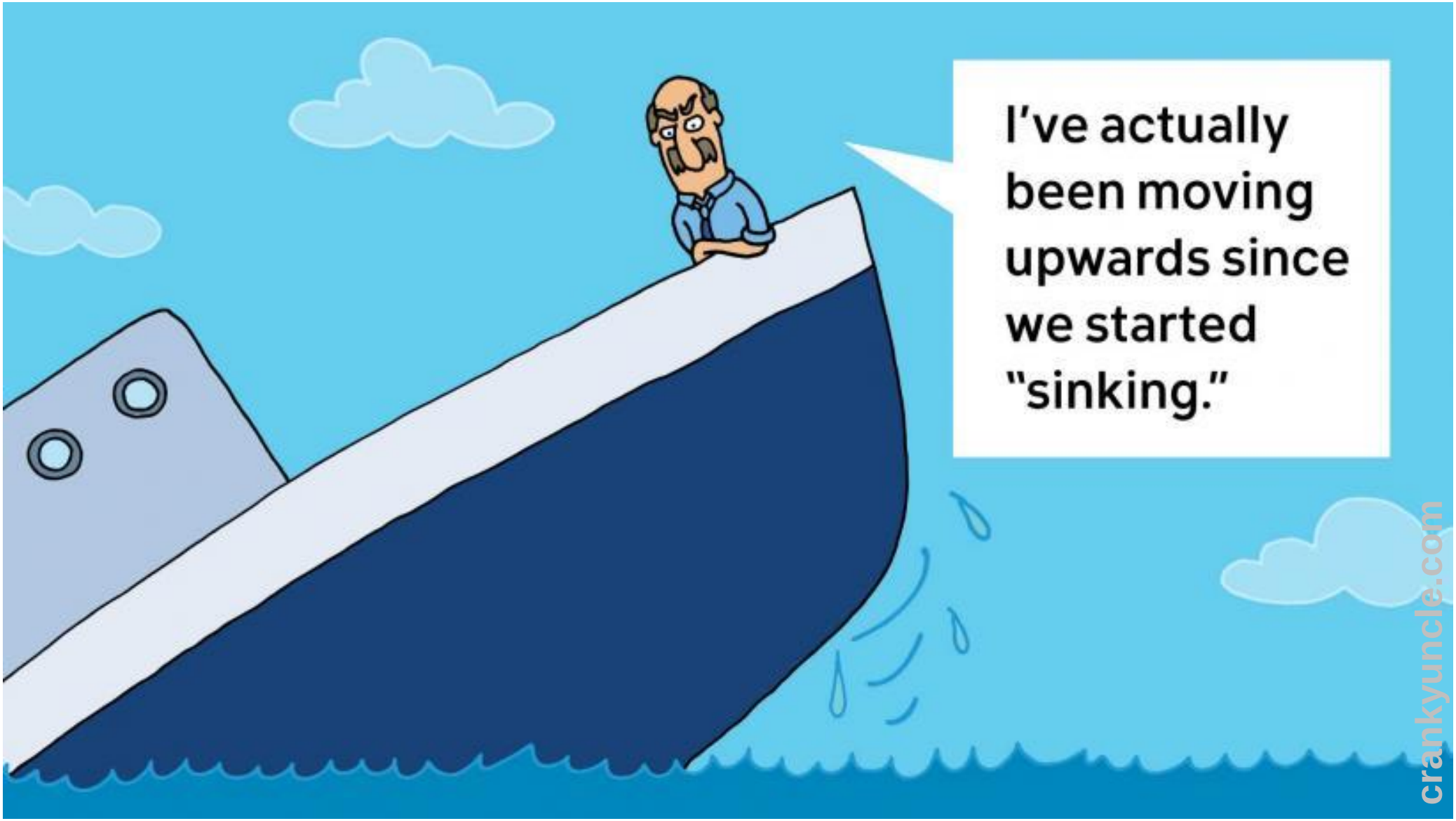

Gravity is just a theory!
crankyuncle.com

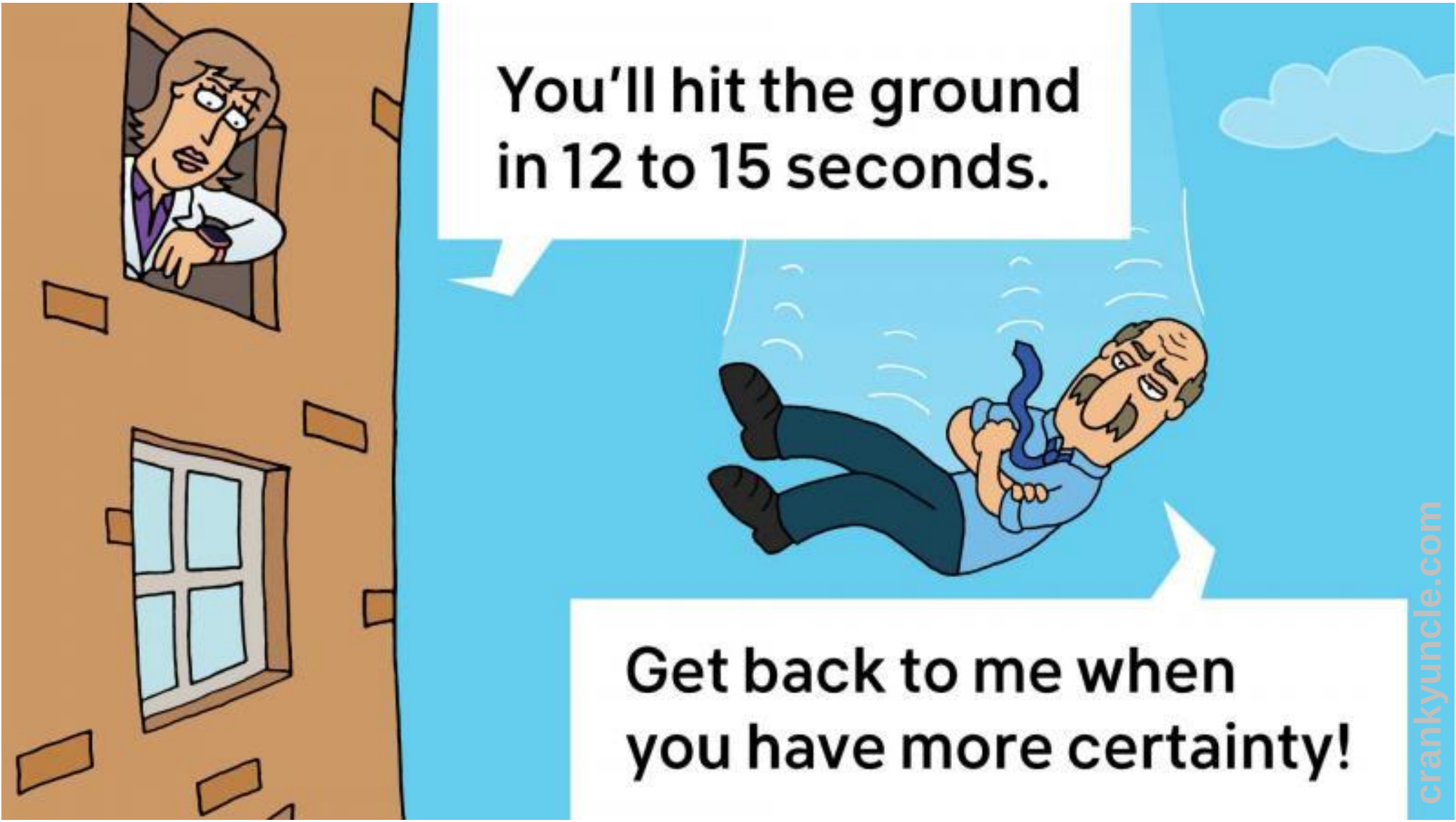

!
Relax! I have a bachelor in computer science!
crankyuncle.com

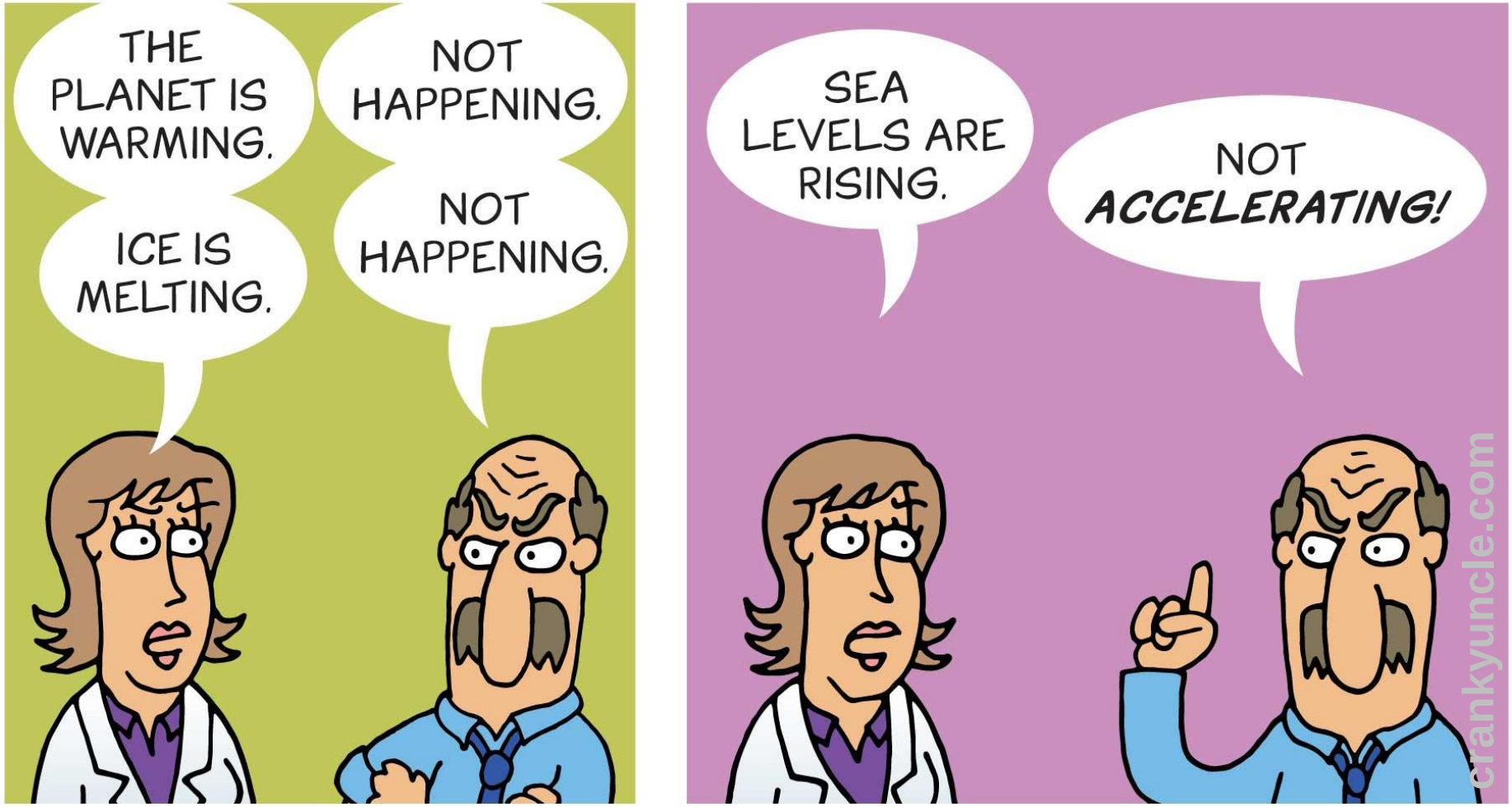

Tonight, we'll talk to a scientist about the solar system...
...to balance her views, we've invited a member of the Flat Earth Society.
MSM
crankyuncle.com

What problem?
I feel fine!
crankyuncle.com


DO OR DO NOT. THERE IS NO TRY!
crankyuncle.com


I've actually been moving upwards since we started "sinking."
crankyuncle.com

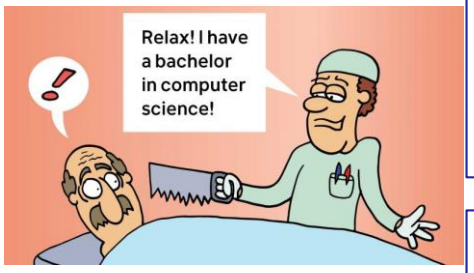

You'll hit the ground in 12 to 15 seconds.
Get back to me when you have more certainty!
crankyuncle.com


THE PLANET IS WARMING.
ICE IS MELTING.
NOT HAPPENING.
NOT HAPPENING.
SEA LEVELS ARE RISING.
NOT ACCELERATING!
crankyuncle.com

Move the logical fallacy to the cartoon showing it

A

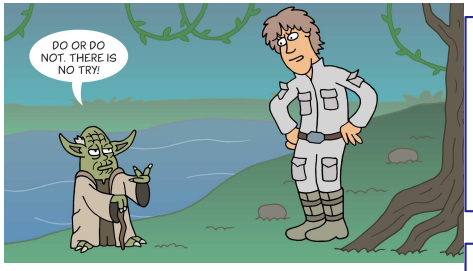
B



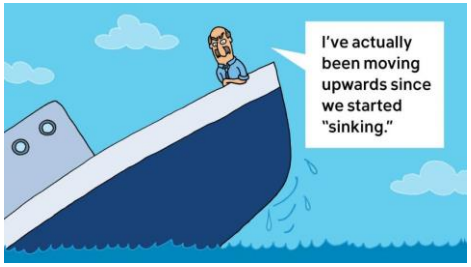
C

D

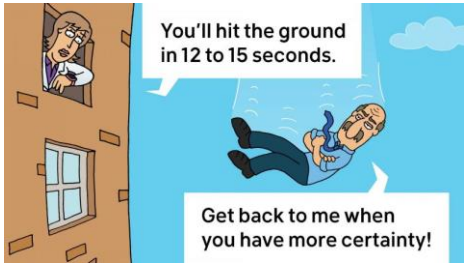
E



F



G



H

I

1 False Choice

2 Single Cause

3 Impossible Expectation

4 Fake Experts

5 Cherry-picking

6 Fake Debate

7 Moving the Goalposts

8 Slothful Induction

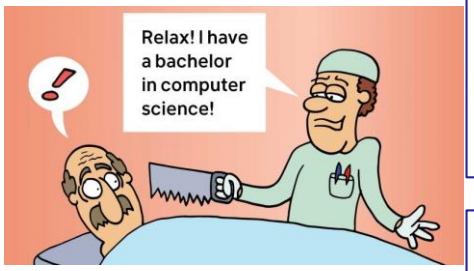
9 Ambiguity

Solution on the next slide!

Solution: logical fallacy to the cartoon showing it

A2

B9

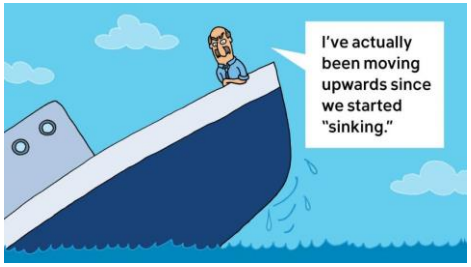


C4

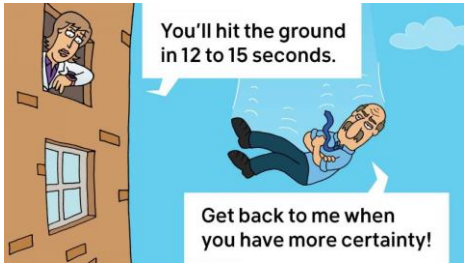
D6

E8

F1



G5



H3

I7

1 False Choice

2 Single Cause

3 Impossible Expectation

4 Fake Experts

5 Cherry-picking

6 Fake Debate

7 Moving the Goalposts

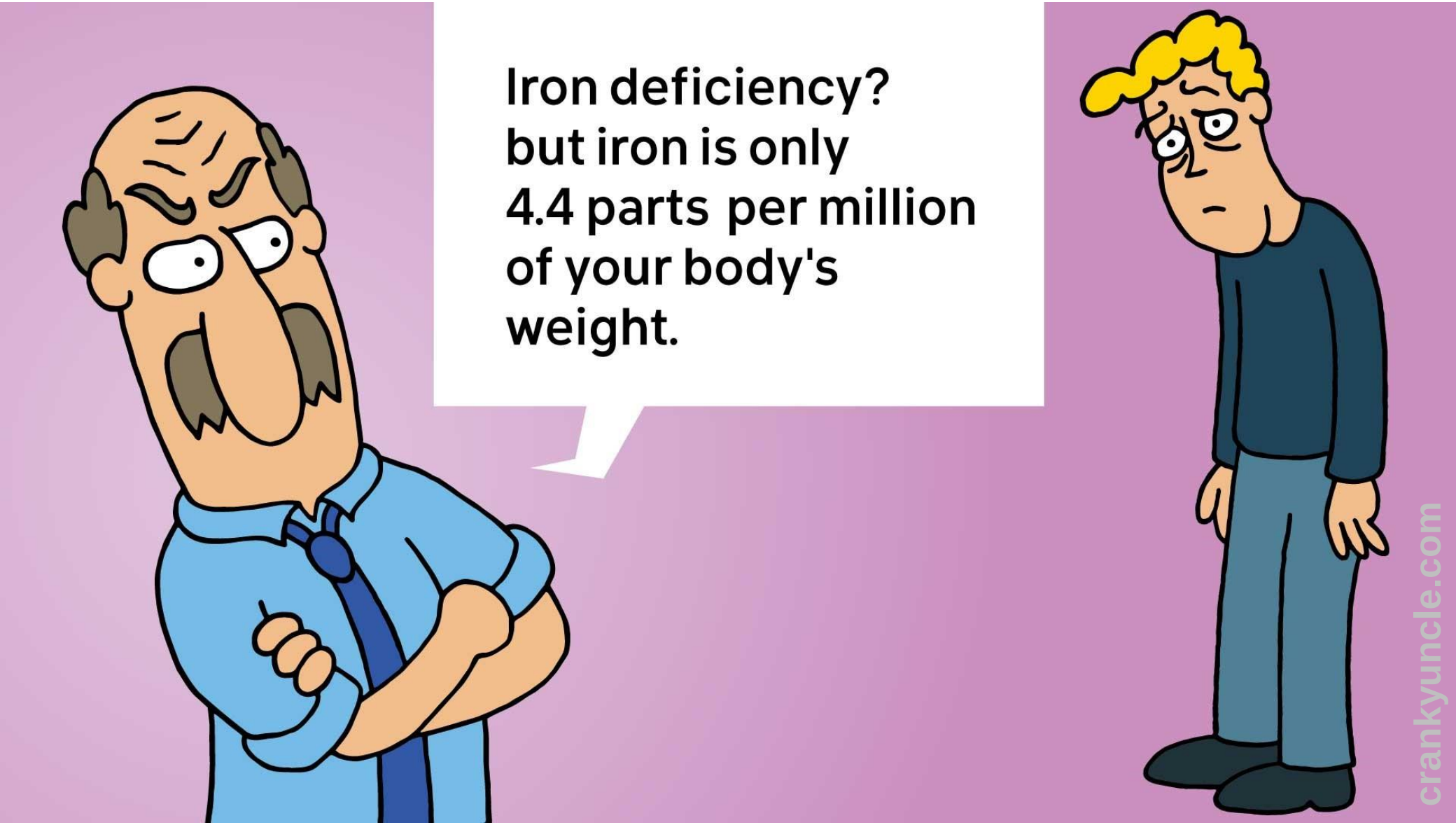
8 Slothful Induction

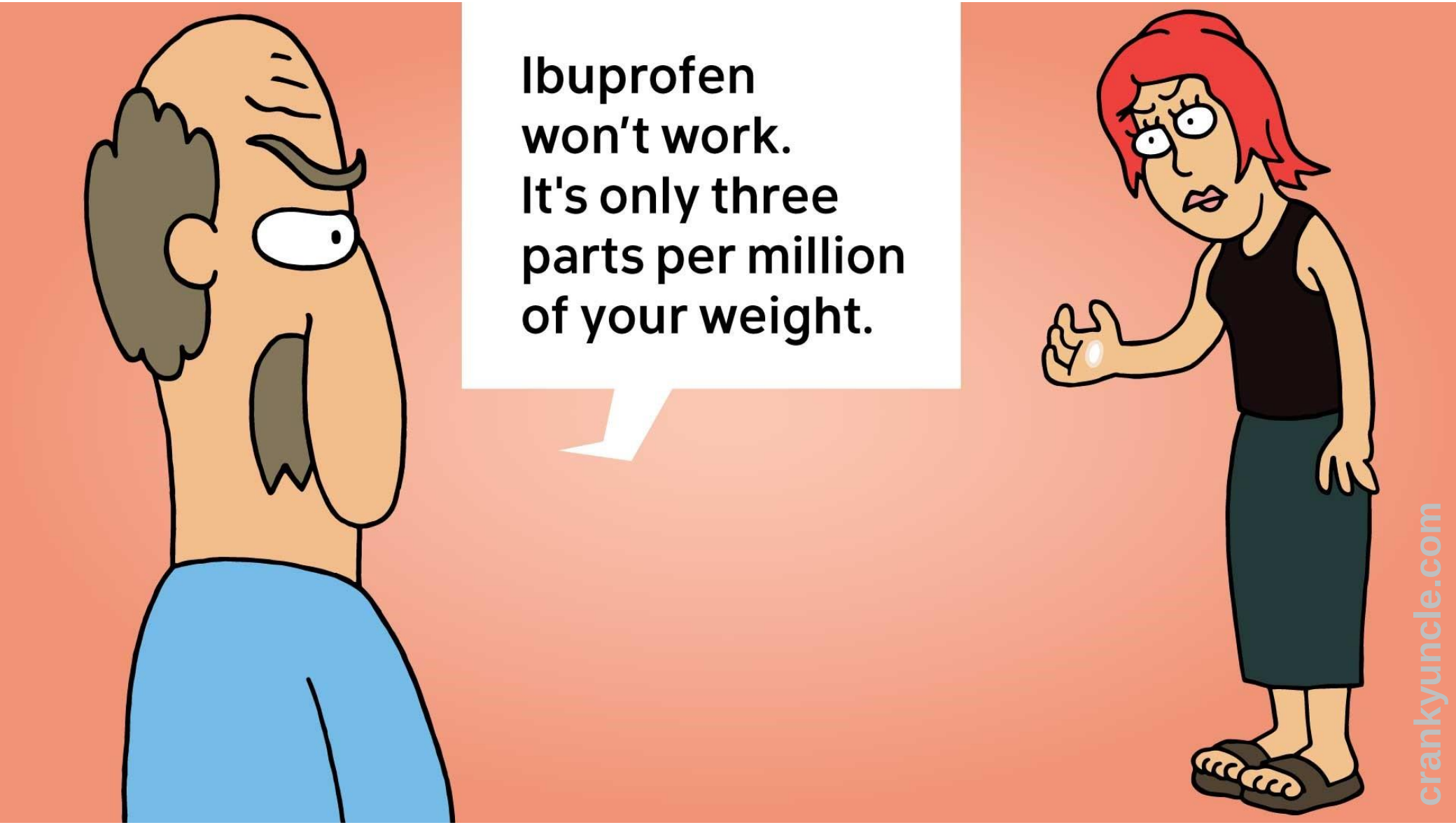
9 Ambiguity

Additional cartoons

I can't be drunk. My blood alcohol is only 0.08 percent!
crankyuncle.com

Sure, you can drink the water. It only has a trace of arsenic!
crankyuncle.com


Iron deficiency?
but iron is only
4.4 parts per million
of your body's
weight.
crankyuncle.com


Ibuprofen won't work. It's only three parts per million of your weight.
crankyuncle.com

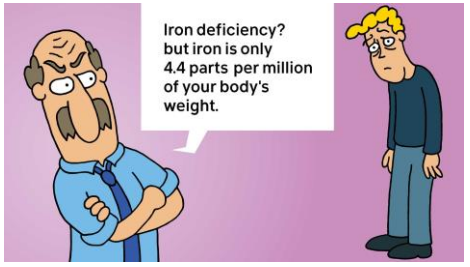
Aha! Proof that chickens don't lay eggs!
crankyuncle.com

Additional cartoons – Solution on next slide

Solution: logical fallacy to the cartoon showing it

A1

B1



C1

D1

E2

Cartoons & Icons created by John Cook

Quiz created by Bärbel Winkler

http://sks.to/BaerbelW

baerbelw@skepticalscience.com

https://skepticalscience.com

https://crankyuncle.com